



**SITE
CHARACTERIZATION
REPORT
ADDENDUM**

Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, Virginia 24120

PC# 2014-2256
Greene Project# FMMD1003

July 11, 2014

DEQ Case Manager:
Mr. Douglas B. Carl

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PC# 2014-2256**

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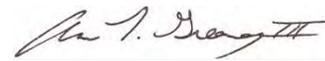
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EXECUTIVE SUMMARY

Site Characterization Report Addendum

Based on the findings of the site characterization report (SCR), the Virginia Department of Environmental Quality (VA DEQ) requested SCR Addendum (SCRA) activities be performed at the Meadows of Dan Food Market property. During SCRA activities, Greene Environmental Services, LLC (Greene) installed 14 monitoring wells at the subject site, performed aquifer characterization, free product recovery, and sampling activities. To date, vapor phase, residual phase, dissolved phase, and free phase petroleum contamination have been encountered in the subsurface at the Meadows of Dan Food Market property. Measurable free product thicknesses have been observed within monitoring wells MW01/MW01A, MW02, MW03, MW07, MW12, MW14, MW15, and MW19. In an effort to reduce the observed free phase petroleum, 10 vacuum truck recovery events were performed at the property during this phase of work and approximately 2,625 gallons of free product and highly concentrated dissolved phase petroleum contamination were recovered.

Groundwater samples collected from the 19 monitoring wells confirmed the presence of onsite and offsite dissolved phase petroleum contamination in the shallow groundwater. In addition, limited, worst-case scenario fate and transport modeling indicated the potential for a 1,035 foot dissolved phase plume. Based on the free phase petroleum plume map and the isoconcentration maps generated during this phase of investigation, groundwater flow appears to be primarily to the southwest, which is contrary to the observed hydraulic gradient to the southeast. Isoconcentration maps generated during this phase of investigation also may indicate two separate sources of contamination. Analytical results of drinking water samples collected from receptor locations DW01, DW07/DW08, DW13, DW14, DW16, and DW19 yielded Non Detected for all analytes. However, pre-filtration drinking water samples continue to yield the presence of petroleum contamination at receptor locations MW02, MW03, MW12, and MW15.

Due to the presence of significant free phase and dissolved phase petroleum plumes extending offsite and the impact to offsite drinking water wells, Greene recommends additional work be performed at the Meadows of Dan Food Market facility. Based on the current understanding of the release, the eventual transition of the site into Corrective Action Plan (CAP) Implementation is fully expected. As a result, on behalf of our client, T&M, M of D, LLC, Greene requested Interim Authorization from the VA DEQ to move forward with corrective actions prior to full completion of site characterization activities in a letter dated June 5, 2014.

Greene also recommends additional site characterization activities be performed at the subject site. Specifically, Greene recommends the installation of additional groundwater monitoring wells. The number of wells and their locations will be determined following the drilling event scheduled as part of the Interim

Authorization phase of work. Samples collected from the monitoring wells will be utilized to further delineate the identified free phase and dissolved phase petroleum plumes. In addition, Greene recommends the installation of 2-3 deep water wells in an attempt to confirm the presence or absence of a diving plume. Finally, Greene recommends additional drinking water sampling be performed. Greene recommends obtaining a drinking water sample from the shared supply well providing potable water to receptor locations DW04, DW05, and DW06 once the power has been reconnected. In addition, Greene recommends the continued sampling of onsite drinking water well (DW01) and the drinking water at receptor locations DW07/DW08, DW13, DW14, DW16, DW17, and DW19. Based on the limited fate and transport modeling performed during this phase of investigation there remains potential for surface water impact from the observed petroleum contamination. Greene recommends collecting surface water samples from the pond and two intermittent tributaries to Tuggle Creek to confirm the presence or absence of petroleum impact.

This Executive Summary is an integral part of the Site Characterization Report Addendum. Greene recommends that the report be read in its entirety.

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Certificates of Disposal – EVO Corporation

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Non-Hazardous Materials Manifest – EVO Corporation
Certificate of Disposal – EVO Corporation

H. Associated Documents

VA DEQ Letter Dated April 28, 2014
Site Access Agreements
Interim Authorization Request Letter Dated June 5, 2014
VA DEQ Approval Letter Dated June 11, 2014

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SITE CHARACTERIZATION REPORT ADDENDUM
for
Meadows of Dan Food Market
Meadows of Dan, VA

1.0 Introduction

On December 30, 2013, Paul R. Shively, Inc. (PRS) of Floyd, Virginia contracted Greene Environmental Services, LLC (Greene) to collect the required samples and document the removal of two 10,000-gallon gasoline underground storage tanks (USTs) located at the Meadows of Dan Food Market in Meadows of Dan, Virginia. Soil samples collected during the excavation and removal of the USTs revealed elevated volatile organic compound (VOC) vapors typically associated with petroleum fuels. Greene also observed petroleum stained soils on the former shared UST basin sidewalls and floor. Subsequent to these findings, Greene reported the release to the Blue Ridge Regional Office (BRRO) of the Virginia Department of Environmental Quality (VA DEQ) on December 30, 2013. In a letter dated January 6, 2014, the Roanoke branch of the Blue Ridge Regional Office (BRRO-ROA) issued the site Pollution Complaint (PC) #2014-2256 and requested that Initial Abatement Measures and Reporting (IAMR) activities and Site Characterization and Reporting (SCR) activities be conducted at the site.

During the IAMR, a total of 409.92 tons of petroleum impacted soils were removed from the site and disposed of at a treatment facility. In addition, Greene collected soil samples subsequent to overexcavation activities, which indicated that elevated petroleum contamination remained onsite. Subsequent to completion of this phase of work, a copy of the IAMR dated January 24, 2014 was submitted to the VA DEQ.

As requested in the January 6, 2014 VA DEQ letter, Greene then performed SCR activities at the subject site. Greene installed six onsite monitoring wells, performed aquifer characterization, and performed sampling activities. During the SCR phase of work, measurable vapor phase, residual phase, dissolved phase, and free phase petroleum contamination were observed at the Meadows of Dan Food Market property. In addition, drinking water samples collected from the offsite receptor locations DW02 (Poor Farmer's Market), DW03 (Jane's Country Café), DW12 (Spangler Residence), and DW15 (Nancy's Candy Company) yielded measurable dissolved phase petroleum contamination and carbon filtration units were installed as part of the VA DEQ alternate water supply (AWS) program. Subsequent to completion of the site characterization phase of work, a copy of the SCR dated April 18, 2014 was submitted to the VA DEQ.

Based on the findings of the SCR, the VA DEQ requested SCR Addendum (SCRA) activities be performed at the Meadows of Dan Food Market property. In a letter dated April 28, 2014, the VA DEQ approved the

SCRA activities to be performed at the subject site. The following report summarizes the SCRA activities performed at the subject site. A copy of the VA DEQ approval letter dated April 28, 2014 is included in Appendix H of this report.

2.0 Site Location and Description

The subject property is an approximately 1.07-acre parcel located at 2609 Jeb Stuart Highway in a primarily commercial and residential area within the limits of Patrick County, Virginia. The subject site is improved with a two-story building that serves as the Meadows of Dan Food Market, as well as a coin-operated laundromat and rental apartment. It is believed that the subject site has operated as a retail gasoline station and convenience store from approximately 1976 to present. As part of UST system upgrade activities, one 10,000-gallon regular gasoline UST (UST #1) and one 10,000-gallon premium gasoline UST (UST #2) located within a common basin were removed from the ground on December 30, 2013. The subject site currently maintains one 10,000-gallon gasoline UST and one 8,000-gallon compartmental UST containing gasoline and kerosene. In addition, the property maintains two gasoline dispensers, and one kerosene dispenser. The subject site is further improved with asphalt access and parking areas. The Meadows of Dan Food Market obtains potable water from a drilled supply well located within the store building approximately 75 feet northwest of the former tank basin. The subject site is bordered by Jeb Stuart Highway to the south, Baptist Church Lane to the north, and commercial properties to the east and west. A Site Map (05/14/14) documenting pertinent features of the site and surrounding area is included in Appendix B.

3.0 Topography

The subject site is located at 2609 Jeb Stuart Highway within the limits of Patrick County, Virginia. According to the U.S. Geological Survey 7 ½ Minute Series Topographic Map of the Meadows of Dan Quadrangle, Virginia, the site elevation is approximately 2,968 feet above mean sea level. At its closest point, the nearest identified surface water body, an unnamed intermittent tributary to Tuggle Creek, is located approximately 950 feet to the east. An aerial map and topographic map of the subject site are included in Appendix B.

4.0 Site Characterization Activities

A summary of the SCRA activities performed at the subject site is provided in the following sections.

4.1 Soil Boring Installation

On April 28, 2014, Greene initiated an additional subsurface investigation at the Meadows of Dan Food Market property. Greene contracted Davidson Drilling, Inc. (DDI) to install 13 soil borings/monitoring wells at the subject site from April 28, 2014 to May 5, 2014. DDI utilized a track-mounted, direct push drill rig equipped with continuous-flight steel rods to install the soil borings until rod refusal was observed. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow-stem auger and over-bored the 13 soil borings (B07-B19) to approximately 10 feet below the first indication of the shallow groundwater table to facilitate the construction of groundwater monitoring wells.

During installation of the 13 soil borings, Greene collected soil samples at 4-5 foot intervals. The soil samples were collected for visual inspection, lithologic characterization, and headspace screening for the presence of VOC vapors typically associated with petroleum fuels. Portions of each soil sample recovered were retained in plastic Zip-Loc™ bags for headspace analysis. Sample temperature was allowed to equilibrate for approximately fifteen minutes at a minimum temperature of 68 °F prior to screening. Headspace screening was performed using a Mini-RAE 3000 photoionization detector (PID) calibrated to a 100 parts per million (ppm) isobutylene standard. This instrument detects VOC vapors within a range of 0.1 ppm to 15,000 ppm. Headspace analysis involved the insertion of the sample probe portion of the PID into the equilibrated sample bag. The maximum reading obtained upon insertion of the probe was recorded for each sample. Headspace analyses revealed elevated (>50.0 ppm) VOC vapor concentrations at soil borings B07, B12, and B15. Headspace readings are included on the Soil Boring Logs provided as Appendix C. The soil boring locations are included on the Soil Boring Location Map provided in Appendix B.

As proposed in the SCR, Greene attempted to manipulate monitoring well MW01 during this phase of drilling activities in an effort to have a screened interval above the free product/equilibrated groundwater table. However, monitoring well MW01 was damaged during the attempted manipulation and was no longer able to be utilized for groundwater monitoring. As a result, Greene properly abandoned monitoring well MW01 with bentonite and contracted DDI to install soil boring B01A adjacent to the former MW01 location. Due to the proximity of B01A to B01/MW01, DDI utilized hollow-stem auger techniques only and soil sampling was not performed.

Greene installed soil borings B14, B15, and B19 on the Meadows of Dan Food Market property; however, soil borings B01A, B07, B12, and B13 were installed on the Former Mountain House Restaurant property located east of the subject site and addressed as 2639 Jeb Stuart Highway. In addition, soil borings B08, B09, B10,

B16, and B17 were installed on the Poor Farmer's Market property located south of the subject site and addressed as 2616 Jeb Stuart Highway. Further, soil borings B11 and B18 were installed on the Jane's County Café and Meadows Merchant Building properties addressed as at 2588 Jeb Stuart Highway and 2577 Jeb Stuart Highway, respectively. Prior to installing the offsite soil borings, Greene obtained Site Access Agreements from the Former Mountain House Restaurant, Poor Farmer's Market, Jane's County Café, and Meadows Merchant Building property owners. The borings predominantly consisted of well graded, weathered, micaceous silty fine sand from approximately grade to 45-55 feet below the ground surface (bgs). Soil cuttings were drummed and stored onsite prior to disposal by EVO Corporation (EVO) of Winston-Salem, NC on May 1, 2014 and May 8, 2014. Copies of the Non-Hazardous Waste Manifests and Certificates of Disposal for the 41 drums are included in Appendix F. Copies of the signed Site Access Agreements are included in Appendix H.

4.2 Groundwater Monitoring Well Installation

Greene completed soil borings B01A and B07-B19 as groundwater monitoring wells MW01A and MW07-MW19, respectively. Groundwater monitoring wells were installed to collect groundwater samples and to monitor for the presence of free product. Groundwater monitoring wells were constructed using two-inch inner diameter (I.D.) schedule 40 polyvinyl chloride (PVC) casing and 0.010-inch factory-slotted well screen. Each well is equipped with an expansion-type locking well cap. Well construction was completed subsequent to removal of the augers. The well annulus was filled with washed, #3 quartz filter sand to a minimum depth of approximately two feet above the top of the screened interval. A pelletized bentonite seal was placed above the sand filter pack. The remainder of the annulus was completed with neat portland grout. A flush-mount protective well cover was installed over each of the 14 monitoring wells. The monitoring well locations are included on the Monitoring Well Location Map provided in Appendix B. Monitoring well construction diagrams are included on the Soil Boring Logs provided as Appendix C.

Subsequent to the installation of each monitoring well, Greene utilized a Heron Instruments, Inc. (Heron) electronic interface probe to confirm the presence of groundwater and/or free product. Measurable free product thicknesses were observed within monitoring wells MW14 and MW15 immediately following installation. In addition, Greene observed measurable free product in the newly installed monitoring wells MW01A, MW07, and MW12 prior to performing well development. Due to the continued presence of measureable free product, Greene returned to the subject site on May 7, 2014 with a vacuum truck on contract from EVO to perform well development and free product removal activities. Following the recording of the pre-test static water level, reinforced tubing and PVC pipe installed below the groundwater were utilized to

perform well development/free product recovery activities. The vacuum truck and associated piping were utilized to develop the well without free product, MW13, for approximately 10 minutes. Due to the presence of measureable free product thicknesses, the vacuum truck and associated piping were utilized to develop MW07 and MW12 for approximately 20 minutes each and MW01A, MW14, and MW15 for approximately 40-45 minutes each. Additional information regarding the free product recovery event is provided in Section 4.4.4. Finally, a submersible pump was utilized to develop the remaining wells, MW08, MW09, MW10, MW11, MW16, MW17, MW18, and MW19. The wells were purged until dry or a minimum of three well volumes has been displaced.

4.3 Hydrogeology

In accordance with VA DEQ directives, Greene completed 14 additional exploratory soil borings as groundwater monitoring wells (MW01A and MW07-MW19) from April 28, 2014 to May 5, 2014. Groundwater monitoring wells were installed to monitor for the presence of free phase petroleum and to delineate the dissolved phase petroleum compounds identified onsite and offsite. A mark placed on the top of each well casing was used as a reference point for surveying and recording groundwater elevations. Greene used a Heron electronic interface probe to measure the depth to groundwater in the onsite and offsite monitoring wells during 10 gauging events performed as part of SCRA activities. A summary of historic and current groundwater elevation data is presented in Table 1 included in Appendix A.

Groundwater elevation data from the May 14, 2014 and June 13, 2014 events were selected for the generation of potentiometric surface maps. The May 14, 2014 data was selected due to it being when the sampling event was performed, while the June 13, 2014 data was selected to represent June. The Surfer Version 8 program was employed to generate the potentiometric surface contour array over the base map created in DesignCAD. A minimum of pseudo data points were used and these were applied only when the kriging algorithm clearly interpolated the contour lines into certain regions where a paucity of data resulted in an unnatural contour distribution. When pseudo points were used, they were based on nearest neighbors. Potentiometric surface maps generated from the relative elevations of equilibrated groundwater as measured on May 14, 2014 and June 13, 2014 are included in Appendix B. Relative groundwater elevations measured on May 14, 2014 and June 13, 2014 depict a primarily southeast hydraulic gradient. However, based on the free phase petroleum plume map and the isoconcentration maps generated during this phase of investigation, groundwater flow appears to be primarily to the southwest, which is contrary to the observed hydraulic gradient to the southeast. This is likely due to the schistose bedrock, which gives rise to micaceous soils that retain the northeast-southwest orientations typical of Appalachian Strike. The foliations in the rock and the micaceous soils with

relict structure appear to be primarily controlling the migration of free phase petroleum product and dissolved phase contamination in a southwest direction.

On June 13, 2014 Greene conducted pump-down rising head tests in monitoring wells MW06, MW17, and MW18 to obtain data necessary in the calculation of aquifer characteristics including hydraulic conductivity, transmissivity, and flow velocity. Following the recording of the pre-test static water level, the wells were pumped dry. Subsequent to purging, a Diver® submersible data logger was utilized to record the water level at predetermined intervals until at a minimum of 95% recovery was obtained at each well location. Pump-down test data and graphic representations obtained during this phase of investigation are provided as Appendix E.

The pump-down test data was used to calculate hydraulic conductivity and transmissivity using Super Slug™ aquifer test software provided by Starpoint Software, Inc. Super Slug™ utilizes several methods for calculating hydraulic conductivity and transmissivity from pump-down test data. For this investigation, Greene selected the Bouwer and Rice method with a gravel pack porosity correction for determining hydraulic conductivity. The saturated thickness of the initial water bearing zone is presumed to be the average static height of the water column in the 19 monitoring wells, 12.80 feet (June 13, 2014). An effective porosity of 30% is assumed for pump-down rising head test calculations. The estimated hydraulic gradient across the site on June 13, 2014, was 0.0338 feet per foot (ft/ft), determined from the potentiometric map included in Appendix B.

The pump-down rising head tests performed on monitoring wells MW06, MW17, and MW18 yielded an average calculated hydraulic conductivity value of 0.8361 feet per day (ft/day). The tests also yielded an average calculated transmissivity value of 80.05 gallons per day per feet (gal/day/ft). The flow velocity is determined from the hydraulic conductivity (K), the groundwater gradient (dh/dl), and the soil porosity (n) by the following equation:

$$V = \frac{K (dh/dl)}{n}$$

The average hydraulic conductivity is 0.8361 ft/day. The groundwater gradient is 0.0338 ft/ft. The porosity or percentage of soil void volume to total volume for silts and clays such as those observed at the site is estimated to be approximately 30%. Groundwater velocity at the site is calculated to be 0.0942 feet per day (ft/day), or 34.38 feet per year (ft/yr).

4.4 Contamination Characterization

The following sections describe Greene's delineation of subsurface petroleum constituents detected during this investigation.

4.4.1 Vapor Phase

As part of soil boring installation activities, Greene collected soil samples from each of the boring locations, with the exception of B01A, at 4-5 foot intervals. Clean, disposable nitrile gloves were used during all phases of sample collection. The soil samples were collected for visual inspection, lithologic characterization, and headspace screening for the presence of VOC vapors typically associated with petroleum fuels. Portions of each recoverable soil sample were retained in plastic Zip-Loc™ bags for headspace analysis. Sample temperature was allowed to equilibrate for a minimum period of fifteen minutes at a minimum temperature of 68°F prior to screening. All soil samples were field screened using a Mini-RAE 3000 PID and visual and olfactory clues. Headspace analyses revealed elevated (>50.0 ppm) VOC vapor concentrations at soil borings B07, B12, and B15 during this phase of work. Headspace readings are included on the Soil Boring Logs provided as Appendix C. A summary of the field screening results is presented in Table 2 included in Appendix A.

4.4.2 Residual Phase

During drilling activities, soil samples were collected from the B07-B19 boring locations at 4-5 foot intervals. The soil samples were collected using, clean, disposable nitrile gloves, placed in 4 ounce glass soil jars, placed on ice, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped by overnight express to TestAmerica, Inc. of Nashville, TN. The soil samples were analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and TPH-diesel range organics (DRO) via EPA method 8015B, benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl ether (MTBE), and naphthalene via EPA method 8021B. Copies of the laboratory results and chain of custody documentation are included in Appendix D. In the interest of reducing paper waste, the quality assurance/quality control (QA/QC) sections of the laboratory reports have not been included with this report. QA/QC documentation has been retained in-house and will be provided upon request.

Analytical results of the submitted soil samples yielded evidence of elevated residual phase petroleum contamination at soil boring locations B12 and B15. Limited residual phase contamination also was observed at soil boring locations B07, B10, B13, B14, B18, and B19. The residual phase contamination was primarily observed proximal to or within the smear zone at each boring location. However, residual phase contamination

was observed 12-16 feet bgs at boring B18 and 8-12 feet bgs at borings B07 and B12. Further, residual phase contamination was observed 4-8 feet bgs at soil borings B14 and B15 located proximal to the gasoline dispensers. The presence of residual phase contamination 4-8 feet bgs at soil borings B14 and B15 in addition to the presence of residual phase contamination observed during UST closure activities proximal to the gasoline dispensers may indicate an additional release of petroleum associated with the gasoline dispensers/lines occurred at the Meadows of Dan Food Market property. Soil samples collected from soil borings B08, B09, B11, B16, and B17 did not yield any evidence of residual phase petroleum contamination. A summary of the residual phase analytical results is presented in Table 3 included in Appendix A.

4.4.3 Dissolved Phase

As discussed in Section 4.2, monitoring wells MW01A and MW07-MW19 were developed on May 7, 2014. Prior to developing the wells, Greene recorded static water level and investigated for the presence of free phase petroleum using a Heron electronic interface probe. The depth to product/groundwater measurement was recorded from a reference mark placed on the top of each well casing. A summary of the well development gauging event is presented in Table 4 included in Appendix A. Greene returned to the subject site on May 14, 2014 to collect groundwater samples from the onsite monitoring wells. Prior to purging and sampling, Greene recorded the static water level and investigated for the presence of free phase petroleum using a Heron electronic interface probe. The depth to product/groundwater measurements were recorded from a reference mark placed on the top of each well casing. Measurable free product thicknesses of 3.77 feet, 3.63 feet, 5.03 feet, 1.69 feet, 2.96 feet, 2.56 feet, and 0.17 feet were observed within monitoring wells MW01A, MW02, MW03, MW12, MW14, MW15, and MW19, respectively. A summary of the sampling gauging event also is presented in Table 4 included in Appendix A.

Despite the presence of free phase petroleum within monitoring wells MW01A, MW02, MW03, MW12, MW14, MW15, and MW19, Greene collected groundwater samples from beneath the free product layer. The groundwater samples were collected to obtain dissolved phase analytical data to be utilized to generate isoconcentration maps and perform limited fate and transport modeling. Groundwater samples were collected from MW01A, MW02, MW03, MW12, MW14, MW15, and MW19 using dedicated, disposable, HDPE bailers and were transferred directly into the appropriate sample containers. Clean, disposable nitrile gloves were used during all phases of sample collection. All water samples were collected in glass sampling bottles, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to TestAmerica, Inc. of Nashville, TN.

Prior to sampling monitoring wells MW04-MW11, MW13, M16-MW18, Greene purged the wells to remove suspended solid material from the water column and to collect samples representative of aquifer conditions. The 12 monitoring well groundwater samples were collected using a 12-volt S.S. Monsoon Proactive Environmental Products submersible pump with a low-flow controller. Dedicated, disposable, LDPE tubing was used to purge the wells and transfer the groundwater samples directly into the appropriate sample containers. The monitoring wells were purged until dry or a minimum of three well volumes had been displaced. Clean, disposable nitrile gloves were used during all phases of sample collection. All water samples were collected in glass sampling bottles, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to TestAmerica, Inc. of Nashville, TN. The groundwater samples collected from monitoring wells MW01A-MW19 were submitted for TPH-GRO and TPH-DRO analysis via EPA method 8015B, BTEX, MTBE, and naphthalene analysis via EPA method 8021B. Copies of the laboratory results and chain of custody documentation are included in Appendix D. In the interest of reducing paper waste, the QA/QC sections of the laboratory reports have not been included with this report. QA/QC documentation has been retained in-house and will be provided upon request.

Analytical results of groundwater samples collected from the monitoring wells yielding evidence of free product during this phase of investigation (MW01A, MW02, MW03, MW07, MW12, MW14, MW15, and MW19) yielded measurable TPH-GRO, TPH-DRO, BTEX, MTBE, and naphthalene concentrations. Analytical results of the groundwater samples collected from the hydraulically downgradient monitoring wells, MW04 and MW05, yielded measurable concentrations of TPH-GRO, TPH-DRO, BTEX, and MTBE, and the groundwater sample collected from the onsite hydraulically upgradient monitoring well, MW06, yielded TPH-DRO and MTBE concentrations. The groundwater sample collected from monitoring well MW18 installed on the adjacent property to the west yielded measurable TPH-DRO, benzene, and xylenes concentrations and the groundwater sample collected from monitoring well MW13 installed on the adjacent property to the east yielded a measurable MTBE concentration. The groundwater sample collected from the offsite monitoring well MW08 yielded limited TPH-DRO and MTBE concentrations. In addition, groundwater samples collected from the offsite monitoring wells MW10, MW11, and MW16 yielded limited concentrations of MTBE, TPH-DRO, and MTBE, respectively. Groundwater samples collected from the offsite monitoring wells MW09 and MW17 yielded Non Detected for all analytes.

Based on isoconcentration maps generated during this phase of investigation, the dissolved phase petroleum plume appears to be migrating northeast-southwest, which is contrary to the observed hydraulic gradient trending to the southeast. As discussed in Section 4.3, the foliations in the rock and the micaceous soils with

relict structure appear to be primarily controlling the migration of free phase petroleum product and dissolved phase contamination in a southwest direction, and as a result the dissolved phase plume is primarily migrating in a southwest direction. In addition, the isoconcentration maps may indicate two separate sources of petroleum contamination. The dissolved phase plume appears to emanate from both the east end of the UST basin and from monitoring wells MW14 and M15 located in the suspected direction of plume migration from the gasoline dispensers. A summary of the historic and current monitoring well dissolved phase analytical results is presented in Table 5 included in Appendix A. Copies of the isoconcentration maps for TPH-GRO, TPH-DRO, BTEX, MTBE, naphthalene, and total BTEX are provided in Appendix B

As part of SCRA activities, groundwater samples also were collected from multiple supply wells. On May 14, 2014, Greene collected drinking water samples from the supply wells located at DW01, DW13, and DW14 and from the spring providing potable water to DW07/DW08. In addition, Greene collected drinking water samples from the supply wells providing potable water to the DW19 and DW16 properties on June 25, 2014, and July 1, 2014, respectively. Greene was unable to collect a groundwater sample from the shared supply well providing potable water to DW04/DW05/DW06 due to the power being disconnected. Greene will collect a drinking water sample from DW04/DW05/DW06 subsequent to power being reconnected. Clean, disposable nitrile gloves were used during all phases of sample collection. All drinking water samples were collected in glass sampling bottles, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to TestAmerica, Inc. of Nashville, TN. The drinking water samples collected from DW01, DW07, DW13, DW14, and DW16 were submitted for volatile organic compounds (VOCs) analysis via EPA method 8260B and semi-volatile organic compounds (SVOCs) analysis via EPA method 8270C. The drinking water sample from DW19 was submitted for VOCs analysis via 8260B. Copies of the laboratory results and chain of custody documentation are included in Appendix D. In the interest of reducing paper waste, the QA/QC sections of the laboratory reports have not been included with this report. QA/QC documentation has been retained in-house and will be provided upon request.

During the previous SCR phase of work, Greene confirmed the presence of petroleum impact at receptor locations DW02, DW03, DW12, and DW15. To mitigate concern associated with ingestion of petroleum impacted drinking water, carbon filtration unit (CFU) systems were installed at each of these properties as part of the VA DEQ Alternate Water Supply (AWS) program. As part of the CFU system installation and maintenance activities pre-treatment drinking water samples are routinely collected. The VA DEQ AWS program approved contractor collected pre-filtration drinking water samples from DW02 on May 15, 2014, DW03 on April 15, 2014, DW12 on May 15, 2014, and DW15 on March 14, April 16, and May 15, 2014.

Analytical results of the pre-filtration drinking water samples collected on behalf of the VA DEQ AWS program continue to yield measurable levels of dissolved phase contamination. The drinking water samples collected from DW02 (Poor Farmer's Market), DW03 (Jane's County Café), and DW12 (Spangler Residence) yielded MTBE concentrations of 56.7 µg/L, 4.4 µg/L, and 3.4 µg/L, respectively. The drinking water samples collected from DW15 (Nancy's Candy Company) yielded MTBE concentrations of 15.6 µg/L, 18.8 µg/L, and 18.3 µg/L, respectively. In addition, a diisopropyl ether (DIPE) concentration of 0.7 µg/L was observed in the sample collected from DW02 and acetone and 2-Butanone concentrations of 1,270 µg/L and 926 µg/L, respectively were observed in the March 14, 2014 sample collected from DW15. Greene obtained the analytical results collected on behalf of the VA DEQ AWS program included in this report from Mr. Harmon Fisher with the VA DEQ AWS program. Copies of the laboratory results and chain of custody documentation for the samples collected on behalf of the VA DEQ AWS program are not included in this report and any request for this documentation should be made to the VA DEQ AWS program. A summary of the historic and current drinking water dissolved phase analytical results is presented in Table 6 included in Appendix A.

4.4.4 Free Product

During this phase of investigation measurable free product was observed at monitoring wells MW01/MW01A, MW02, MW03, MW07, MW12, MW14, MW15, and MW19. The free product plume map generated utilizing the highest observed product thicknesses during the previous SCR or this SCRA phase of work indicates a free product plume extending northeast to southwest approximately 180 feet. As with the dissolved phase plume, the free product plume also appears to be migrating contrary to the observed hydraulic gradient, which is to the southeast. Based on a free phase petroleum plume map generated during this phase of investigation, the free phase plume appears to be migrating northeast-southwest. As discussed in Section 4.3, the foliations in the rock and the micaceous soils with relict structure appear to be primarily controlling the migration of free phase petroleum product. In addition, as with the residual and dissolved phase analytical data, free product thicknesses may indicate an additional release of petroleum associated with the gasoline dispensers/lines occurred at the property. A copy of the Free Phase Petroleum Plume Map is included in Appendix B. A summary of the historic and current free product thicknesses is presented in Table 7 included in Appendix A.

Due to the continued presence of measurable free phase petroleum, Greene continued the performance of free product recovery events utilizing a vacuum truck at the subject site. Greene performed 10 gauging events and vacuum truck recovery events at the Meadows of Dan Food Market facility during this phase of investigation. Free product recovery events were performed on April 16, April 25, May 2, May 7, May 14, May 23, June 6, June 13, June 18, and June 25, 2014. The vacuum trucks for these recovery events were provided under

contract by EVO. Following the recording of the free product thicknesses, reinforced tubing and PVC pipe installed below the groundwater were utilized to apply the vacuum within monitoring wells observed to have free product during the gauging event. The vacuum was applied to the monitoring wells until no measurable free product remained or primarily groundwater was being recovered. A summary of the product recovery events performed during this phase of work is presented in Table 8 included in Appendix A. Copies of the vacuum truck Non Hazardous Waste Manifests and Certificates of Disposal generated during the free product recovery events are included in Appendix G.

During the previous phase of investigation, Greene collected a sample of the free product within monitoring well MW02 on March 19, 2014. The free product sample was collected using a dedicated, disposable, HDPE bailer and was transferred directly into the appropriate sample containers. Clean, disposable nitrile gloves were used during all phases of sample collection. The product sample was collected in glass sampling bottles, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to Southern Petroleum Laboratories, Inc. (SPL) of Houston, TX. The product sample was submitted for paraffins, isoparaffins, aromatics, naphthenes, and olefins (PIANO) analysis including BTEX, MTBE, ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), diisopropyl ether (DIPE), and tert-Amyl alcohol (TAA), as well as a product identification narrative (PIN). Laboratory results were not received by the reporting date of the previous SCR; however, Greene obtained the laboratory report during this phase of investigation.

Laboratory analysis of the free product sample collected from MW02 confirmed that the product is a gasoline range hydrocarbon. The free product sample maintained a specific gravity of 0.7439 and a calculated octane of 89.530, which likely indicates the product is/was premium gasoline. As documented in the IAMR dated January 24, 2014, multiple small holes were observed on the bottom of the former premium UST located at the Meadows of Dan facility. In addition, the analytical results yielded the MTBE percentage by weight (wt %) of the sample to be 0.02. A summary of the free product analytical results is presented in Table 9 included in Appendix A. Copies of the laboratory results and chain of custody documentation are included in Appendix D. In the interest of reducing paper waste, the chromatograph output data has been retained in-house and will be provided upon request.

5.0 Risk Assessment

Greene performed a risk assessment to evaluate the potential risk to human health and the environment associated with the petroleum compounds detected at the site. The findings of the risk assessment are presented in the following sections.

5.1 Identification of Receptors

During the previous SCR phase of work, Greene performed a ¼-mile radius receptor survey to identify potential receptors to the confirmed petroleum contamination located at the Meadows of Dan Food Market facility. A summary of the receptor survey activities is documented in the SCR dated April 18, 2014. To date, Greene has identified six residential properties, 12 commercial properties, and one church property within the search radius. In addition, a total of 14 drinking water wells, two springs, and one pond have been identified. Further, the nearest potential surface water receptor, an unnamed intermittent tributary to Tuggle Creek, is located approximately 950 feet to the east. An updated summary of the potential receptors is presented in Table 10 included in Appendix A. A Potential Receptors Location Map is included in Appendix B.

5.2 Identification of Exposure Pathways

The identification of potential exposure pathways is necessary to evaluate the risk posed by the extent of the release. An exposure pathway requires that there be some mechanism for any person or population to come into contact with one or more of the media which contain the contaminant of concern. No risk is assumed in the absence of contamination or in the absence of an exposure pathway.

5.2.1 Inhalation

The presence of asphalt, concrete, and gravel surface coverings in the immediate vicinity of the UST system mitigates concern associated with potential exposure to VOC vapors emanating from the subsurface.

5.2.2 Ingestion

The most likely pathway for the ingestion of petroleum contamination would be through consumption of contaminated groundwater within the area. As discussed in Section 4.4.3 of this report, CFU systems have been installed at each of the properties where petroleum impact to drinking water has been confirmed (DW02, DW03, DW12, and DW15). The installation, routine monitoring, and maintenance of the CFU systems by the VA DEQ AWS should mitigate concern associated with ingestion of petroleum impacted drinking water. In addition, groundwater samples collected from nearby drinking water wells and springs continue to yield Non Detected for all analytes. Topographic information indicates a pond draining to an intermittent tributary to Tuggle Creek is located approximately 1,130 feet southwest of the confirmed petroleum release. In addition, intermittent tributaries to Tuggle Creek are located approximately 950 feet east and 1,030 feet southwest of the confirmed petroleum release. However, surface water samples have not been collected from the pond or intermittent tributaries to confirm the presence or absence of dissolved phase petroleum impact. The presence

of grass and asphalt surface coverings in the immediate vicinity of the observed contaminants mitigates concern associated with inadvertent ingestion of petroleum impacted soil.

5.2.3 Dermal Contact

The UST system is covered with asphalt, concrete, and gravel mitigating concern associated with potential contact with adsorbed phase contaminants. Carbon filtration units have been installed at receptor locations DW02, DW03, DW12, and DW15 mitigating concern associated with potential contact with dissolved phase contaminants. However, surface water samples have not been collected from the pond or intermittent tributaries to confirm the presence or absence of dissolved phase petroleum impact.

6.0 Plume Migration Direction and Rate

A free phase petroleum plume and a dissolved phase petroleum plume have been identified at the Meadows of Dan Food Market facility. Based on the free phase petroleum plume map and the isoconcentration maps generated during this phase of investigation, groundwater flow appears to be primarily to the southwest, which is contrary to the observed hydraulic gradient to the southeast. This is likely due to the schistose bedrock, which gives rise to micaceous soils that retain the northeast-southwest orientations typical of Appalachian Strike. The foliations in the rock and the micaceous soils with relict structure appear to be primarily controlling the migration of free phase petroleum product and dissolved phase contamination in a southwest direction.

Greene performed simple fate and transport modeling during this phase of investigation in an attempt to characterize the dissolved phase plume located at the subject site. Greene utilized BIOSCREEN modeling software to characterize the individual BTEX, MTBE, and naphthalene dissolved phase plumes at the Meadows of Dan Food Market facility. These models were generated based on a continuous source, published degradation rates, and the dissolved phase contamination data obtained from beneath the free product layer during the May 14, 2014 sampling event. Greene utilized the highest observed concentration and the highest published solute half-life for each constituent to demonstrate the worst-case plume migration. Further, in the absence of published or observed data required for modeling, Greene utilized values to represent a worst-case scenario. The plume length was estimated to be 220 feet based on the Isoconcentration mapping performed during this phase of investigation. Rising head pump-down tests performed at monitoring wells MW06, MW17, and MW18, yielded an average hydraulic conductivity of 0.8361 ft/day, which provides a flow velocity of 0.0942 ft/day or 34.38 ft/yr. The dissolved phase contaminant plume would be expected to migrate at this

rate with pockets of greater rates where conduits permit flow in channels rather than migration through the soil structure.

Greene utilized the first order decay model to predict the BTEX, MTBE, and naphthalene plumes as it is the conventional method for simulating biodegradation in dissolved hydrocarbon plumes. BIOSCREEN modeling data estimates the first order decay MTBE and benzene plumes to each be the longest at approximately 1,035 feet and 1,010 feet, respectively. It also estimates the toluene, ethylbenzene, xylenes, and naphthalene first order decay plumes to be approximately 425 feet, 360 feet, 625 feet, and 325 feet, respectively. Based on this modeling data, there remains potential risk to additional downgradient drinking water receptors as well as surface water receptors. BIOSCREEN Modeling Input Data and Graphical Representations are included in Appendix I.

7.0 Remediation Assessment

The following sections outline applicable remediation technologies that are commonly implemented at petroleum impacted sites that warrant corrective action measures.

7.1 Description of Remediation Alternatives

7.1.1 Soil Vapor Extraction with In Situ Air Sparging

Vapor extraction refers to the technique of removing contaminant vapors from the unsaturated zone by means of active or passive venting. A network of extraction points is installed either vertically or horizontally within the contaminated zone and manifolded to a surface discharge point. Extracted vapors either are vented directly to the atmosphere or to an off-gas treatment unit. The need for off-gas treatment likely is a function of site-specific conditions and local regulatory emission standards. Active vapor extraction has proven to expedite remediation of free- and dissolved-phase contamination as well. The decreased pore pressure within the unsaturated zone created by the induced vacuum increases the volatilization of contaminants within the respective plumes below.

Sparging has been used successfully to expedite remediation through vapor extraction. Sparging involves the injection of air into the subsurface through a series of injection points. The introduction of clean air increases the rate of pore volume exchange between clean air and the subgrade contaminant vapor. A greater percentage of contaminant vapor can then be extracted using a vapor extraction system. Groundwater sparging, the introduction of clean air into the phreatic zone, has been used with great success in expediting the remediation of dissolved-phase contaminant plumes. Greatest efficiency has been documented through the use of

groundwater sparging in association with vapor extraction systems. Remedial system design will require modifications to address the presence of voids/fractures. A comprehensive, tabular summary of this remedial approach is presented in Table 11 included in Appendix A.

7.1.2 Groundwater Pump & Treat

Groundwater pump and treat technology involves extracting contaminated groundwater for treatment at the surface. A network of groundwater recovery wells is installed, depending upon site specific conditions and hydrogeologic considerations. Groundwater is recovered from the extraction points through systematic pumping. Once at the surface, the extracted liquids can be treated on-site using various remedial components or transported off-site for treatment and disposal. On-site treatment methods may include activated carbon filtration, residence in a bioreactor, air stripping, etc. As in the case of vapor extraction, the use of an air stripper may require off-gas permitting. Further permitting may be required by the local regulatory agency for the discharge of the treated waste stream. A comprehensive, tabular summary of this remedial approach is presented in Table 12.

7.1.3 In Situ Bioremediation

In situ bioremediation involves a process where oxygen and nutrients are introduced to the unsaturated zone through well points or an infiltration gallery to promote contaminant degradation by naturally-occurring organisms. Commercially available bacteria also may be employed where the indigenous population is insufficient. The effectiveness of bioremediation is a function of various physical properties of the subsurface environment and the contaminants, though it is proven effective in most settings impacted by petroleum hydrocarbons. This process allows for treatment of contaminated groundwater in-place, eliminating the requirement for pumping and the subsequent treatment of extracted groundwater. Costs associated with the implementation and management of a bioremediation system may vary, but have been estimated between \$60 and \$123 per cubic yard (\$40 to \$90 per ton). Treatment time may vary significantly, generally ranging from six months to four years. A comprehensive, tabular summary of this remedial approach is presented in Table 13.

7.1.4 Dual-Phase Extraction

Residual- and dissolved-phase petroleum compounds have been demonstrated by industry to effectively be removed using dual-phase extraction technology. A rotary-claw vacuum pump removes liquid- and vapor-phase contaminants from recovery wells or trenches. Aboveground treatment is dependent on the nature of the effluent waste stream, but typically it involves the mechanical separation of vapors, free-phase petroleum, and

groundwater, removal of dissolved-phase compounds from groundwater via stripping and carbon filtration, and discharge of treated groundwater under applicable permit authority. Vapors may be emitted to the atmosphere without treatment if calculated emission rates are below permit threshold limits.

Dual-phase systems have proven to be effective in attaining remediation endpoints within one to four years. Capital costs associated with a fixed recovery and treatment system typically ranges from \$80,000 to \$200,000. Annual operation and maintenance costs typically range from \$25,000 to \$75,000. A comprehensive, tabular summary of this remedial approach is presented in Table 14.

In some cases, short-term removal using a mobile dual-phase extraction and treatment system can be effective in recovering significant contaminant mass and reducing the long-term impact of petroleum releases. When performed as a feasibility study prior to issuance of a Corrective Action Plan (CAP), a 72-hour removal event typically costs approximately \$15,000.

7.2 Remedial Technology Recommendation

Based on the results of site characterization activities performed during the SCR and SCRA phases of work, corrective action is warranted at the Meadows of Dan Food Market facility. The limited data obtained during the vacuum truck free product recovery events performed at the property appear to indicate that DPE remediation will effectively reduce the vapor phase, free phase, residual phase, and dissolved phase contamination identified onsite. However, Greene recommends the performance of a two-week pilot study to confirm the technology effectiveness and collect necessary data for long term system design and the preparation of applicable discharge permit applications.

8.0 Conclusions and Recommendations

To date, vapor phase, residual phase, dissolved phase, and free phase petroleum contamination has been encountered onsite and offsite at the Meadows of Dan Food Market property. Measurable free product thicknesses have been observed within eight (MW01A, MW02, MW03, MW07, MW12, MW14, MW15, and MW19) of the 19 monitoring wells, and mapping indicates a free product plume extending northeast-southwest approximately 180 feet. In an effort to reduce the observed free phase petroleum, 10 vacuum truck recovery events were performed at the property during this phase of work and approximately 2,625 gallons of free product and highly concentrated dissolved phase petroleum contamination were recovered during this phase of investigation.

Groundwater samples collected from the 19 monitoring wells confirmed the presence of onsite and offsite dissolved phase petroleum contamination in the shallow groundwater. In addition, limited, worst-case scenario fate and transport modeling indicated the potential for a 1,035 feet dissolved phase plume. Based on the free phase petroleum plume map and isoconcentration maps generated during this phase of investigation, groundwater, the dissolved phase petroleum plume, and the free phase petroleum plume appear to be migrating northeast-southwest, which is contrary to the observed hydraulic gradient trending to the southeast. As discussed in Section 4.3, the foliations in the rock and the micaceous soils with relict structure appear to be primarily controlling the migration of free phase petroleum product and dissolved phase contamination in a southwest direction. In addition, the isoconcentration maps may indicate two separate sources of petroleum contamination. Based on the isoconcentration maps, one source of contamination is likely located proximal to the UST basin and an additional source of contamination may be located south-southwest of the dispenser locations adjacent to the south property boundary. The residual phase data obtained during this phase of investigation also may indicate the dispenser location as an additional source of petroleum based on the petroleum contamination observed within soil samples collected from 4-12 feet bgs. Analytical results of drinking water samples collected from receptor locations DW01, DW07/DW08, DW13, DW14, DW16, and DW19 yielded Non Detected for all analytes. However, pre-filtration drinking water samples continue to yield the presence of petroleum contamination at receptor locations MW02, MW03, MW12, and MW15.

Due to the presence of significant free phase and dissolved phase petroleum plumes extending offsite and the impact to offsite drinking water wells, Greene recommends additional work be performed at the Meadows of Dan Food Market facility. Based on the current understanding of the release, the eventual transition of the site into CAP Implementation is fully expected. As a result, on behalf of our client, T&M, M of D, LLC, Greene requested Interim Authorization from the VA DEQ to move forward with corrective actions prior to full completion of site characterization activities in a letter dated June 5, 2014. Under Interim Authorization, Greene proposed to complete characterization of the free phase plume, prepare the site for long term utilization of an appropriate remediation technology, and conduct a pilot study in order to determine the most appropriate remediation technology. In a letter dated June 11, 2014, the VA DEQ approved Interim Authorization activities to be performed at the subject site. Copies of the request letter dated June 5, 2014 outlining the proposed Interim Authorization activities as well as the VA DEQ approval letter dated June 11, 2014 are included in Appendix H.

Greene also recommends additional site characterization activities be performed at the subject site. Specifically, Greene recommends the installation of additional groundwater monitoring wells. The number of

wells and their locations will be determined based on the soil and groundwater data obtained during the drilling event scheduled as part of the Interim Authorization phase of work. Samples collected from the monitoring wells will be utilized to further delineate the free phase and dissolved phase plumes, which appear to be flowing southwest, contrary to the observed hydraulic gradient to the southeast. In addition, Greene recommends the installation of 2-3 deep water wells in an attempt to confirm the presence or absence of a diving plume. It is unlikely that the limited petroleum contamination identified in the offsite shallow groundwater during this phase of investigation is responsible for the presence of petroleum contamination within drinking water wells located at DW02, DW03, DW12, and DW15. The deep water monitoring wells installed as part of nested well pairs will allow for vertical delineation of the groundwater contamination and aid in determining the presence of a diving plume.

Finally, Greene recommends additional drinking water sampling be performed, as well as the collection of surface water samples. Greene recommends obtaining a drinking water sample from the shared supply well providing potable water to receptor locations DW04, DW05, and DW06 once the power has been reconnected. In addition, Greene recommends the continued sampling of onsite drinking water well (DW01) and the drinking water at receptor locations DW07/DW08, DW13, DW14, DW16, DW17, and DW19. Based on the limited fate and transport modeling performed during this phase of investigation there remains potential for surface water impact from the observed petroleum contamination. Greene recommends collecting surface water samples from the pond and two intermittent tributaries to Tuggle Creek to confirm the presence or absence of petroleum impact.

End of the Site Characterization Report Addendum

APPENDIX A

Tables

- Table 1. A Summary of Historic and Current Groundwater Elevation Data
- Table 2. A Summary of the Field Screening Results
- Table 3. A Summary of the Residual Phase Analytical Results
- Table 4. A Summary of the Calculated Purge Volumes
- Table 5. A Summary of Historic and Current Monitoring Well Dissolved Phase Analytical Results
- Table 6. A Summary of Historic and Current Drinking Water Dissolved Phase Analytical Results
- Table 7. A Summary of Historic and Current Free Product Thicknesses
- Table 8. A Summary of Free Product Recovery Events
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- Table 11. A Summary of In Situ Air Sparging with Soil Vapor Extraction
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- Table 14. A Summary of Dual-Phase Extraction

Table 1.
A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation¹ (feet)	Depth to Groundwater² (feet)	Relative Groundwater Elevation (feet)
MW01 ³	02/27/14	2,962.67	31.54	2,931.13
	03/06/14		31.48	2,931.19
	03/10/14		31.50	2,931.17
	03/12/14		31.21	2,931.46
	03/14/14		31.44	2,931.23
	03/19/14		32.98	2,929.69
	03/28/14		31.33	2,931.34
	04/07/14		31.12	2,931.55
	04/16/14		31.19	2,931.48
	04/25/14		30.68	2,931.99
05/02/14	30.64	2,932.03		
MW01A	05/07/14	2,967.05	30.89	2,936.16
	05/14/14		30.95	2,936.10
	05/23/14		30.99	2,936.06
	06/06/14		31.41	2,935.64
	06/13/14		31.61	2,935.44
	06/18/14		31.78	2,935.27
	06/25/14		31.90	2,935.15
MW02	02/27/14	2,967.02	31.80	2,935.22
	03/06/14		31.80	2,935.22
	03/10/14		31.67	2,935.35
	03/12/14		31.53	2,935.49
	03/14/14		31.74	2,935.28
	03/19/14		31.74	2,935.28
	03/28/14		31.57	2,935.45
	04/07/14		31.42	2,935.60
	04/16/14		31.52	2,935.50
	04/25/14		31.01	2,936.01
	05/02/14		31.01	2,936.01
	05/07/14		31.07	2,935.95
	05/14/14		31.12	2,935.90
	05/23/14		31.17	2,935.85
	06/06/14		31.60	2,935.42
	06/13/14		31.74	2,935.28
	06/18/14		31.89	2,935.13
06/25/14	31.97	2,935.05		

Table 1 (Cont'd).

A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation¹ (feet)	Depth to Groundwater² (feet)	Relative Groundwater Elevation (feet)
MW03	02/27/14	2,966.80	32.61	2,934.19
	03/06/14		32.57	2,934.23
	03/10/14		32.45	2,934.35
	03/12/14		32.33	2,934.47
	03/14/14		32.50	2,934.30
	03/19/14		32.34	2,934.46
	03/28/14		32.32	2,934.48
	04/07/14		32.18	2,934.62
	04/16/14		32.32	2,934.48
	04/25/14		31.93	2,934.87
	05/02/14		31.91	2,934.89
	05/07/14		31.95	2,934.85
	05/14/14		31.96	2,934.84
	05/23/14		31.99	2,934.81
	06/06/14		32.31	2,934.49
	06/13/14		32.51	2,934.29
	06/18/14		32.64	2,934.16
	06/25/14		32.76	2,934.04
MW04	02/27/14	2,965.67	31.85	2,933.82
	03/06/14		31.75	2,933.92
	03/10/14		31.43	2,934.24
	03/12/14		31.50	2,934.17
	03/14/14		31.64	2,934.03
	03/19/14		NA ⁴	NA
	03/28/14		31.46	2,934.21
	04/07/14		31.33	2,934.34
	04/16/14		31.44	2,934.23
	04/25/14		31.10	2,934.57
	05/02/14		31.03	2,934.64
	05/07/14		31.08	2,934.59
	05/14/14		31.08	2,934.59
	05/23/14		31.16	2,934.51
	06/06/14		31.48	2,934.19
	06/13/14		31.68	2,933.99
	06/18/14		31.82	2,933.85
	06/25/14		31.89	2,933.78

Table 1 (Cont'd).

A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation ¹ (feet)	Depth to Groundwater ² (feet)	Relative Groundwater Elevation (feet)
MW05	02/27/14	2,965.57	31.69	2,933.88
	03/06/14		31.57	2,934.00
	03/10/14		31.63	2,933.94
	03/12/14		31.31	2,934.26
	03/14/14		31.47	2,934.10
	03/19/14		NA	NA
	03/28/14		31.28	2,934.29
	04/07/14		31.16	2,934.41
	04/16/14		31.24	2,934.33
	04/25/14		30.89	2,934.68
	05/02/14		30.83	2,934.74
	05/07/14		30.87	2,934.70
	05/14/14		30.88	2,934.69
	05/23/14		30.97	2,934.60
	06/06/14		31.31	2,934.26
	06/13/14		31.53	2,934.04
	06/18/14		31.67	2,933.90
06/25/14	31.84	2,933.73		
MW06	02/27/14	2,967.63	30.88	2,936.75
	03/06/14		30.75	2,936.88
	03/10/14		30.62	2,937.01
	03/12/14		30.47	2,937.16
	03/14/14		30.67	2,936.96
	03/19/14		NA	NA
	03/28/14		30.52	2,937.11
	04/07/14		30.41	2,937.22
	04/16/14		30.49	2,937.14
	04/25/14		29.98	2,937.65
	05/02/14		29.94	2,937.69
	05/07/14		29.97	2,937.66
	05/14/14		30.02	2,937.61
	05/23/14		30.13	2,937.50
	06/06/14		30.51	2,937.12
	06/13/14		30.73	2,936.90
	06/18/14		30.92	2,936.71
06/25/14	31.06	2,936.57		

Table 1 (Cont'd).

A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation¹ (feet)	Depth to Groundwater² (feet)	Relative Groundwater Elevation (feet)
MW07	05/07/14	2,966.80	30.99	2,935.81
	05/14/14		31.01	2,935.79
	05/23/14		31.09	2,935.71
	06/06/14		31.47	2,935.33
	06/13/14		31.66	2,935.14
	06/18/14		31.83	2,934.97
	06/25/14		32.10	2,934.70
MW08	05/07/14	2,966.74	32.45	2,934.29
	05/14/14		32.51	2,934.23
	05/23/14		32.60	2,934.14
	06/06/14		32.90	2,933.84
	06/13/14		33.27	2,933.47
	06/18/14		32.47	2,934.27
	06/25/14		33.52	2,933.22
MW09	05/07/14	2,967.40	33.10	2,934.30
	05/14/14		33.14	2,934.26
	05/23/14		33.22	2,934.18
	06/06/14		33.57	2,933.83
	06/13/14		33.76	2,933.64
	06/18/14		33.21	2,934.19
	06/25/14		32.59	2,934.81
MW10	05/07/14	2,966.76	33.11	2,933.65
	05/14/14		33.42	2,933.34
	05/23/14		33.48	2,933.28
	06/06/14		33.83	2,932.93
	06/13/14		34.11	2,932.65
	06/18/14		33.72	2,933.04
	06/25/14		33.21	2,933.55
MW11	05/07/14	2,968.11	33.80	2,934.31
	05/14/14		33.83	2,934.28
	05/23/14		33.89	2,934.22
	06/06/14		34.09	2,934.02
	06/13/14		34.39	2,933.72
	06/18/14		33.95	2,934.16
	06/25/14		33.03	2,935.08

Table 1 (Cont'd).

A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation¹ (feet)	Depth to Groundwater² (feet)	Relative Groundwater Elevation (feet)
MW12	05/07/14	2,966.76	30.80	2,935.96
	05/14/14		30.86	2,935.90
	05/23/14		31.01	2,935.75
	06/06/14		31.48	2,935.28
	06/13/14		31.75	2,935.01
	06/18/14		31.93	2,934.83
	06/25/14		32.05	2,934.71
MW13	05/07/14	2,965.32	30.43	2,934.89
	05/14/14		30.49	2,934.83
	05/23/14		30.61	2,934.71
	06/06/14		31.06	2,934.26
	06/13/14		31.33	2,933.99
	06/18/14		31.44	2,933.88
	06/25/14		31.58	2,933.74
MW14	05/07/14	2,966.88	32.13	2,934.75
	05/14/14		32.20	2,934.68
	05/23/14		32.21	2,934.67
	06/06/14		32.47	2,934.41
	06/13/14		32.70	2,934.18
	06/18/14		32.85	2,934.03
	06/25/14		32.92	2,933.96
MW15	05/07/14	2,967.82	33.01	2,934.81
	05/14/14		33.05	2,934.77
	05/23/14		33.09	2,934.73
	06/06/14		33.37	2,934.45
	06/13/14		33.55	2,934.27
	06/18/14		33.69	2,934.13
	06/25/14		33.81	2,934.01
MW16	05/07/14	2,965.29	31.39	2,933.90
	05/14/14		31.58	2,933.71
	05/23/14		31.68	2,933.61
	06/06/14		31.88	2,933.41
	06/13/14		32.59	2,932.70
	06/18/14		32.61	2,932.68
	06/25/14		32.82	2,932.47

Table 1 (Cont'd).

A Summary of Historic and Current Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation ¹ (feet)	Depth to Groundwater ² (feet)	Relative Groundwater Elevation (feet)
MW17	05/07/14	2,958.98	27.98	2,931.00
	05/14/14		28.35	2,930.63
	05/23/14		28.66	2,930.32
	06/06/14		28.79	2,930.19
	06/13/14		30.05	2,928.93
	06/18/14		29.75	2,929.23
	06/25/14		29.51	2,929.47
MW18	05/07/14	2,969.25	33.31	2,935.94
	05/14/14		33.34	2,935.91
	05/23/14		33.38	2,935.87
	06/06/14		33.73	2,935.52
	06/13/14		33.85	2,935.40
	06/18/14		33.59	2,935.66
	06/25/14		33.79	2,935.46
MW19	05/07/14	2,968.77	33.12	2,935.65
	05/14/14		33.14	2,935.63
	05/23/14		33.17	2,935.60
	06/06/14		33.48	2,935.29
	06/13/14		33.63	2,935.14
	06/18/14		33.70	2,935.07
	06/25/14		33.91	2,934.86

¹Elevations measured by Fork Mountain Surveying and Mapping, Inc. relative to an approximate site elevation of 2,968 feet.

²If free phase petroleum was observed, depth to groundwater was calculated using a site specific gasoline density of 0.7439 g/ml.

³Elevations measured by Greene prior to permanently abandoning MW01.

⁴NA = Not Applicable.

Table 2.
A Summary of the Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B07-1	0-4	Slight petroleum odor	0.7	Yes
B07-2	4-8	Slight petroleum odor	1.1	Yes
B07-3	8-12	Slight petroleum odor	1.5	Yes
B07-4	12-16	No petroleum odor	2.7	Yes
B07-5	16-20	No petroleum odor	7.2	Yes
B07-6	20-24	Slight petroleum odor	10.5	Yes
B07-7	24-28	Petroleum odor	130.9	Yes
B07-8	28-31	Strong petroleum odor	259.7	Yes
B07-9	31-35	Strong petroleum odor	29.5	Yes
B07-10	35-40	Strong petroleum odor	28.7	No
B08-1	0-4	No petroleum odor	0.0	No
B08-2	4-8	No petroleum odor	0.0	No
B08-3	8-12	No petroleum odor	0.0	No
B08-4	12-16	No petroleum odor	0.0	No
B08-5	16-20	No petroleum odor	0.0	No
B08-6	20-24	No petroleum odor	0.0	No
B08-7	24-26	No petroleum odor	0.0	Yes
B09-1	0-4	No petroleum odor	0.0	No
B09-2	4-8	No petroleum odor	0.0	No
B09-3	8-12	No petroleum odor	0.0	No
B09-4	12-16	No petroleum odor	0.0	No
B09-5	16-20	No petroleum odor	0.0	No
B09-6	20-24	No petroleum odor	0.0	No
B09-7	24-28	No petroleum odor	0.0	Yes
B09-8	28-32	No petroleum odor	0.0	Yes
B09-9	32-33	No petroleum odor	0.0	No

Table 2 (Cont'd).
A Summary of the Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B10-1	0-4	No petroleum odor	0.0	No
B10-2	4-8	No petroleum odor	0.0	No
B10-3	8-12	No petroleum odor	0.0	No
B10-4	12-16	No petroleum odor	0.0	No
B10-5	16-20	No petroleum odor	0.0	No
B10-6	20-24	No petroleum odor	0.0	Yes
B10-7	24-28	No petroleum odor	0.0	Yes
B10-8	28-32	No petroleum odor	0.0	No
B11-1	0-4	No petroleum odor	0.0	No
B11-2	4-8	No petroleum odor	0.0	No
B11-3	8-12	No petroleum odor	0.0	No
B11-4	12-16	No petroleum odor	0.0	No
B11-5	16-20	No petroleum odor	0.0	No
B11-6	20-24	No petroleum odor	0.3	Yes
B12-1	0-4	No petroleum odor	0.0	No
B12-2	4-8	No petroleum odor	0.0	No
B12-3	8-12	No petroleum odor	0.2	Yes
B12-4	12-16	Slight petroleum odor	0.5	Yes
B12-5	16-20	No petroleum odor	1.7	Yes
B12-6	20-23	Slight petroleum odor	17.2	Yes
B12-7	30-35	Strong petroleum odor	3,793	Yes
B13-1	0-4	No petroleum odor	0.0	No
B13-2	4-8	No petroleum odor	0.0	No
B13-3	8-12	No petroleum odor	0.0	No
B13-4	12-16	No petroleum odor	0.0	No
B13-5	16-20	No petroleum odor	0.0	No
B13-6	20-24	No petroleum odor	0.0	No
B13-7	24-28	No petroleum odor	0.0	Yes
B13-8	28-31	No petroleum odor	0.0	Yes

Table 2 (Cont'd).
A Summary of the Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B14-1	0-4	No petroleum odor	0.0	No
B14-2	4-8	No petroleum odor	0.6	Yes
B14-3	8-12	Slight petroleum odor	8.3	Yes
B14-4	12-16	Slight petroleum odor	0.5	Yes
B14-5	16-20	Slight petroleum odor	6.2	Yes
B14-6	20-24	Slight petroleum odor	2.3	Yes
B14-7	24-28	Slight petroleum odor	17.2	Yes
B14-8	28-31.5	Petroleum odor	18.9	Yes
B15-1	0-6	No petroleum odor	1.3	Yes
B15-2	6-12	No petroleum odor	2.8	Yes
B15-3	12-16	No petroleum odor	3.5	Yes
B15-4	16-20	Slight petroleum odor	5.0	Yes
B15-5	20-24	Petroleum odor	18.8	Yes
B15-6	24-28	Petroleum odor	39.9	Yes
B15-7	28-32	Strong petroleum odor	1,841	Yes
B16-1	0-5	No petroleum odor	0.0	No
B16-2	5-10	No petroleum odor	0.0	No
B16-3	10-15	No petroleum odor	0.0	No
B16-4	15-20	No petroleum odor	0.0	No
B16-5	20-25	No petroleum odor	0.0	No
B16-6	25-30	No petroleum odor	0.0	Yes
B16-7	30-35	No petroleum odor	0.0	Yes
B17-1	0-5	No petroleum odor	0.0	No
B17-2	5-10	No petroleum odor	0.0	No
B17-3	10-15	No petroleum odor	0.0	No
B17-4	15-20	No petroleum odor	0.0	Yes
B17-5	20-25	No petroleum odor	0.0	Yes
B17-6	25-30	No petroleum odor	0.0	Yes

Table 2 (Cont'd).
A Summary of the Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B18-1	0-4	No petroleum odor	0.0	No
B18-2	4-8	No petroleum odor	0.0	No
B18-3	8-12	No petroleum odor	0.0	Yes
B18-4	12-16	No petroleum odor	1.0	Yes
B18-5	16-20	No petroleum odor	0.3	Yes
B18-6	20-24	No petroleum odor	0.0	Yes
B18-7	24-28	No petroleum odor	0.8	Yes
B18-8	28-32	No petroleum odor	0.0	Yes
B18-9	32-34	No petroleum odor	0.2	No
B19-1	0-4	No petroleum odor	4.4	No
B19-2	4-8	No petroleum odor	1.3	No
B19-3	8-12	Slight petroleum odor	7.2	Yes
B19-4	12-16	Slight petroleum odor	28.2	Yes
B19-5	16-20	Slight petroleum odor	6.3	Yes
B19-6	20-23	Slight petroleum odor	19.5	Yes
B19-7	25-30	Slight petroleum odor	3.2	Yes

Table 3.
A Summary of the Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO ¹	TPH-DRO ²	Benzene ³	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene
B07-1	04/28/14	0-4	ND ⁴	ND	ND	ND	ND	ND	ND	ND
B07-2	04/28/14	4-8	ND	ND	ND	ND	ND	ND	ND	ND
B07-3	04/28/14	8-12	ND	ND	ND	ND	ND	ND	0.0298	ND
B07-4	04/28/14	12-16	ND	ND	ND	0.00134	ND	ND	0.0233	ND
B07-5	04/28/14	16-20	ND	ND	ND	ND	ND	ND	ND	ND
B07-6	04/28/14	20-24	0.105	ND	ND	0.00114	ND	ND	0.126	ND
B07-7	04/28/14	24-28	0.220	30.7	ND	0.00556	0.000978	0.00705	0.161	ND
B07-8	04/28/14	28-31	6.14	ND	0.00173	0.0586	0.0592	0.590	0.156	0.262
B07-9	04/28/14	31-35	0.252	ND	ND	0.00245	0.0013	0.015	ND	0.132
B08-7	04/28/14	24-26	ND	ND	ND	ND	ND	ND	ND	ND
B09-7	04/28/14	24-28	ND	ND	ND	ND	ND	ND	ND	ND
B09-8	04/28/14	28-32	ND	ND	ND	ND	ND	ND	ND	ND
B10-6	04/28/14	20-24	ND	ND	ND	ND	ND	ND	0.0101	ND
B10-7	04/28/14	24-28	ND	ND	ND	0.00102	ND	ND	0.0333	ND
B11-6	04/28/14	20-24	ND	ND	ND	ND	ND	ND	ND	ND
B12-3	04/29/14	8-12	ND	7.63	ND	0.0106	0.00216	0.0101	ND	ND
B12-4	04/29/14	12-16	ND	11.6	0.00144	0.0116	0.00141	0.00504	ND	ND
B12-5	04/29/14	16-20	ND	ND	ND	ND	ND	ND	ND	ND
B12-6	04/29/14	20-23	ND	ND	ND	0.00204	ND	0.00263	ND	ND
B12-7	05/05/14	30-35	1,110	75.1	0.124	43.2	35.4	211	0.0571	16.1
B13-7	04/29/14	24-28	ND	ND	ND	0.000943	ND	ND	ND	ND
B13-8	04/29/14	28-31	ND	ND	ND	ND	ND	ND	ND	0.00586

Table 3 (Cont'd).
A Summary of the Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO ¹	TPH-DRO ²	Benzene ³	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
B14-2	04/29/14	4-8	ND	ND	ND	0.00144	ND	ND	ND	ND
B14-3	04/29/14	8-12	ND	ND	ND	0.00147	ND	ND	ND	ND
B14-4	04/29/14	12-16	ND	ND	ND	ND	ND	ND	ND	ND
B14-5	04/29/14	16-20	ND	ND	ND	0.00516	ND	0.00298	ND	ND
B14-6	04/29/14	20-24	ND	ND	ND	ND	ND	ND	ND	ND
B14-7	04/29/14	24-28	ND	ND	ND	ND	ND	ND	ND	ND
B14-8	04/29/14	28-31.5	ND	5.33	ND	0.00162	ND	ND	ND	ND
B15-1	04/29/14	0-6	ND	40.8	ND	0.00639	0.00115	0.00490	ND	ND
B15-2	04/29/14	6-12	ND	6.45	ND	0.00537	0.00136	0.00651	ND	ND
B15-3	04/29/14	12-16	ND	ND	ND	ND	ND	ND	ND	ND
B15-4	04/29/14	16-20	ND	ND	ND	ND	ND	ND	ND	ND
B15-5	04/29/14	20-24	ND	ND	ND	ND	ND	ND	ND	ND
B15-6	04/29/14	24-28	ND	ND	ND	ND	ND	ND	ND	ND
B15-7	04/29/14	28-32	415	48.3	0.132	13.1	11.1	57.8	0.0443	10.2
B16-6	04/29/14	25-30	ND	ND	ND	ND	ND	ND	ND	ND
B16-7	04/29/14	30-35	ND	ND	ND	ND	ND	ND	ND	ND
B17-4	04/29/14	15-20	ND	ND	ND	ND	ND	ND	ND	ND
B17-5	04/29/14	20-25	ND	ND	ND	ND	ND	ND	ND	ND
B17-6	04/29/14	25-30	ND	ND	ND	ND	ND	ND	ND	ND
B18-3	05/02/14	8-12	ND	ND	ND	ND	ND	ND	ND	ND
B18-4	05/02/14	12-16	0.12	ND	ND	ND	ND	ND	ND	ND
B18-5	05/02/14	16-20	ND	ND	ND	ND	ND	ND	ND	ND
B18-6	05/02/14	20-24	ND	ND	ND	ND	ND	ND	ND	ND
B18-7	05/02/14	24-28	ND	ND	ND	ND	ND	ND	ND	ND
B18-8	05/02/14	28-32	ND	ND	ND	ND	ND	ND	ND	ND

Table 3 (Cont'd).
A Summary of the Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO ¹	TPH-DRO ²	Benzene ³	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene
B19-3	05/05/14	8-12	ND	ND	ND	ND	ND	ND	ND	ND
B19-4	05/05/14	12-16	ND	ND	ND	ND	ND	ND	ND	ND
B19-5	05/05/14	16-20	ND	ND	ND	ND	ND	ND	ND	ND
B19-6	05/05/14	20-23	ND	ND	ND	0.00139	ND	ND	ND	ND
B19-7	05/05/14	25-30	ND	ND	ND	ND	ND	ND	ND	ND

¹TPH (gasoline range organics) analysis via U.S. EPA SW-846 method 8015B; reported in milligrams per kilogram (mg/kg).

²TPH (diesel range organics) analysis via U.S. EPA SW-846 method 8015B; reported in mg/kg.

³BTEX, MTBE, naphthalene analysis via U.S. EPA SW-846 method 8021B; reported in mg/kg.

⁴ND = Non Detected.

Table 4.
A Summary of the Calculated Purge Volumes

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Amount of Product (feet)	Total Well Depth (feet)	Water Column ¹ (feet)	Well Diameter (inches)	Conversion Factor (gallons/feet)	Calculated Purge Volume (gallons)
MW01A	05/07/14	30.56	31.85	1.29	45.18	14.29	2.0	0.163	6.99
	05/14/14	29.98	33.75	3.77		14.23			6.96
MW02	05/07/14	30.11	33.87	3.76	50.22	19.15	2.0	0.163	9.36
	05/14/14	30.19	33.82	3.63		19.10			9.34
MW03	05/07/14	30.72	35.51	4.79	50.14	18.19	2.0	0.163	8.90
	05/14/14	30.67	35.70	5.03		18.18			8.89
MW04	05/07/14	NA ²	31.08	NA	45.34	14.26	2.0	0.163	6.97
	05/14/14	NA	31.08	NA		14.26			6.97
MW05	05/07/14	NA	30.87	NA	45.25	14.38	2.0	0.163	7.03
	05/14/14	NA	30.88	NA		14.37			7.03
MW06	05/07/14	NA	29.97	NA	45.05	15.08	2.0	0.163	7.37
	05/14/14	NA	30.02	NA		15.03			7.35
MW07	05/07/14	30.98	31.01	0.03	45.19	14.20	2.0	0.163	6.94
	05/14/14	NA	31.01	NA		14.18			6.93
MW08	05/07/14	NA	32.45	NA	45.23	12.78	2.0	0.163	6.25
	05/14/14	NA	32.51	NA		12.72			6.22
MW09	05/07/14	NA	33.10	NA	45.21	12.11	2.0	0.163	5.92
	05/14/14	NA	33.14	NA		12.07			5.90
MW10	05/07/14	NA	33.11	NA	42.14	9.03	2.0	0.163	4.42
	05/14/14	NA	33.42	NA		8.72			4.26
MW11	05/07/14	NA	33.80	NA	45.15	11.35	2.0	0.163	5.55
	05/14/14	NA	33.83	NA		11.32			5.54

Table 4 (Cont'd).
A Summary of the Calculated Purge Volumes

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Amount of Product (feet)	Total Well Depth (feet)	Water Column ¹ (feet)	Well Diameter (inches)	Conversion Factor (gallons/feet)	Calculated Purge Volume (gallons)
MW12	05/07/14	30.49	31.70	1.21	45.22	14.42	2.0	0.163	7.05
	05/14/14	30.43	32.12	1.69		14.36			7.02
MW13	05/07/14	NA	30.43	NA	45.04	14.61	2.0	0.163	7.14
	05/14/14	NA	30.49	NA		14.55			7.11
MW14	05/07/14	31.33	34.44	3.11	45.19	13.06	2.0	0.163	6.39
	05/14/14	31.44	34.40	2.96		12.99			6.35
MW15	05/07/14	32.37	34.88	2.51	45.18	12.17	2.0	0.163	5.95
	05/14/14	32.39	34.95	2.56		12.13			5.93
MW16	05/07/14	NA	31.39	NA	45.23	13.84	2.0	0.163	6.77
	05/14/14	NA	31.58	NA		13.65			6.67
MW17	05/07/14	NA	27.98	NA	40.23	12.25	2.0	0.163	5.99
	05/14/14	NA	28.35	NA		11.88			5.81
MW18	05/07/14	NA	33.31	NA	43.83	10.52	2.0	0.163	5.14
	05/14/14	NA	33.34	NA		10.49			5.13
MW19	05/07/14	NA	33.12	NA	45.54	12.42	2.0	0.163	6.07
	05/14/14	33.10	33.27	0.17		12.40			6.06

¹If free phase petroleum was observed, actual water column was calculated using a site specific gasoline density of 0.7439 g/ml.

²NA = Not applicable.

Table 5.**A Summary of Historic and Current Monitoring Well Dissolved Phase Analytical Results**

Well Identification	Date	TPH-GRO ¹	TPH-DRO ²	Benzene ³	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW01A	05/14/14	187,000	9,090	4,950	46,300	4,060	22,000	4,530	439
MW02	05/14/14	190,000	11,300	6,280	42,900	4,170	22,000	11,700	912
MW03	05/14/14	122,000	5,550	2,130	27,000	3,100	16,400	1,750	444
MW04	03/12/14	3,870	1,220	483	81.4	30.4	347	1,500	11.7
	05/14/14	4,130	1,220	532	23.2	14.6	303	1,150	ND ⁴
MW05	03/12/14	4,080	607	501	47.2	81.9	590	1,350	9.77
	05/14/14	651	120	67.3	3.32	13.1	94.8	228	ND
MW06	03/12/14	136	230	ND	3.18	2.98	18.7	4.46	ND
	05/14/14	ND	289	ND	ND	ND	ND	1.12	ND
MW07	05/14/14	34,700	4,980	1,090	5,070	1,070	6,360	625	166
MW08	05/14/14	ND	145	ND	ND	ND	ND	1.32	ND
MW09	05/14/14	ND	ND	ND	ND	ND	ND	ND	ND
MW10	05/14/14	ND	ND	ND	ND	ND	ND	129	ND
MW11	05/14/14	ND	107	ND	ND	ND	ND	ND	ND
MW12	05/14/14	124,000	23,700	762	19,800	5,260	28,800	117	710
MW13	05/14/14	ND	ND	ND	ND	ND	ND	9.14	ND
MW14	05/14/14	189,000	7,380	7,720	44,800	5,260	29,400	5,850	628
MW15	05/14/14	178,000	8,500	9,310	48,700	5,160	27,500	4,040	547
MW16	05/14/14	ND	ND	ND	ND	ND	ND	8.82	ND
MW17	05/14/14	ND	ND	ND	ND	ND	ND	ND	ND
MW18	05/14/14	ND	234	1.65	ND	ND	3.97	ND	ND
MW19	05/14/14	29,900	7,220	315	4,400	994	4,680	97.3	179

¹TPH (gasoline range organics) analysis via U.S. EPA SW-846 method 8015B; reported in micrograms per liter (µg/L).²TPH (diesel range organics) analysis via U.S. EPA SW-846 method 8015B; reported in µg/L.³BTEX, MTBE, naphthalene analysis via U.S. EPA SW-846 method 8021B; reported in µg/L.⁴ND = Non Detected.

Table 6.

A Summary of Historic and Current Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs ¹	SVOCs ²
DW01	01/31/14	ND ³ for all VOCs via 8260	NA ⁴
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW02 (outside hydrant)	01/31/14	MTBE = 76.9; ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 74.6; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	02/19/14 ⁵	MTBE = 35.1; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	05/15/14 ⁵	MTBE = 56.7 Diisopropyl ether (DIPE) = 0.7 ND for all other VOCs via 8260	NA
DW02 (kitchen faucet)	02/07/14	MTBE = 76.5; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
DW03	01/31/14	Benzene = 14.4 1,2-Dichloroethane = 1.24 MTBE = 38.7 ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 2.71; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	02/17/14	MTBE = 1.83; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/19/14 ⁵	MTBE = 5.0; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	04/16/14	MTBE = 4.4; ND for all other VOCs via 8260	NA
DW04 DW05 DW06	Unable to collect sample from shared well due to power being disconnected.		
DW07 DW08	03/12/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW09	02/25/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	Bis(2-ethylhexyl) phthalate = 21.0; ND for all other SVOCs via 8270
DW10	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270

Table 6 (Cont'd).

A Summary of Historic and Current Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs ¹	SVOCs ²
DW11	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW12	01/31/14	MTBE = 3.62; ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 3.40; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	03/06/14 ⁵	MTBE = 3.5; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	05/15/14	MTBE = 3.4; ND for all other VOCs via 8260	NA
DW13	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW14	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW15	02/10/14	MTBE = 10.9; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/17/14	MTBE = 15.5; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/19/14 ⁵	MTBE = 15.7; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	03/14/14 ⁵	Acetone = 1,270 2-Butanone (MEK) = 926 MTBE = 15.6 ND for all other VOCs via 8260	NA
	04/16/14 ⁵	MTBE = 18.8; ND for all other VOCs via 8260	NA
	05/15/14 ⁵	MTBE = 18.3; ND for all other VOCs via 8260	NA
DW16	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	07/01/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW17	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270

Table 6 (Cont'd).

A Summary of Historic and Current Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs ¹	SVOCs ²
DW18	02/26/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	Bis(2-ethylhexyl) phthalate = 26.1; ND for all other SVOCs via 8270
DW19	02/25/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	06/25/14	ND for all VOCs via 8260	NA

¹VOCs (Volatile Organic Compounds) analysis via U.S. EPA SW-846 method 8260B; reported in micrograms per liter (µg/L).

²SVOCs (Semi-Volatile Organic Compounds) analysis via U.S. EPA SW-846 method 8270C; reported in µg/L.

³ND = Non Detected.

⁴NA = Not Analyzed.

⁵Drinking water samples collected on behalf of the VA DEQ AWS program.

Table 7.
A Summary of Historic & Current Free Product Thicknesses

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW01	02/27/14	31.21	32.50	1.29 ¹
	03/06/14	31.33	31.91	0.58 ¹
	03/10/14	31.34	31.96	0.62 ¹
	03/12/14	31.05	31.67	0.62 ¹
	03/14/14	31.29	31.89	0.60 ¹
	03/19/14	32.90	33.20	0.30 ¹
	03/28/14	31.21	31.68	0.47 ¹
	04/07/14	31.08	31.24	0.16 ¹
	04/16/14	31.15	31.29	0.14 ¹
	04/25/14	30.62	30.84	0.22 ¹
	05/02/14	NA ²	30.64	NA
MW01A	05/07/14	30.56	31.85	1.29
	05/14/14	29.98	33.75	3.77
	05/23/14	29.99	33.90	3.91
	06/06/14	30.34	34.52	4.18
	06/13/14	30.61	34.50	3.89
	06/18/14	31.05	33.90	2.85
	06/25/14	31.12	34.16	3.04
MW02	02/27/14	30.27	36.24	5.97
	03/06/14	30.38	35.91	5.53
	03/10/14	30.22	35.87	5.65
	03/12/14	30.11	35.65	5.54
	03/14/14	30.41	35.61	5.20
	03/19/14	30.30	35.92	5.62
	03/28/14	30.28	35.30	5.02
	04/07/14	30.18	35.03	4.85
	04/16/14	30.36	34.90	4.54
	04/25/14	29.89	34.27	4.38
	05/02/14	29.97	34.03	4.06
	05/07/14	30.11	33.87	3.76
	05/14/14	30.19	33.82	3.63
	05/23/14	30.25	33.84	3.59
	06/06/14	30.69	34.24	3.55

Table 7 (Cont'd).

A Summary of Historic & Current Free Product Thicknesses

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW02 (Cont'd)	06/13/14	30.81	34.44	3.63
	06/18/14	30.98	34.52	3.54
	06/25/14	31.07	34.58	3.51
MW03	02/27/14	31.50	35.82	4.32
	03/06/14	31.37	36.05	4.68
	03/10/14	31.18	36.13	4.95
	03/12/14	31.32	35.26	3.94
	03/14/14	31.40	35.70	4.30
	03/19/14	31.11	35.90	4.79
	03/28/14	31.030	36.05	5.02
	04/07/14	30.85	36.06	5.21
	04/16/14	31.08	35.91	4.83
	04/25/14	30.60	35.78	5.18
	05/02/14	30.65	35.56	4.91
	05/07/14	30.72	35.51	4.79
	05/14/14	30.67	35.70	5.03
	05/23/14	30.63	35.95	5.32
	06/06/14	30.98	36.18	5.20
	06/13/14	31.23	36.23	5.00
	06/18/14	31.52	35.89	4.37
06/25/14	31.59	36.15	4.56	
MW07	05/07/14	30.98	31.01	0.03
	05/14/14	NA	31.01	NA
	05/23/14	31.08	31.12	0.04
	06/06/14	31.46	31.50	0.04
	06/13/14	NA	31.66	NA
	06/18/14	NA	31.83	NA
	06/25/14	NA	32.10	NA
MW12	05/07/14	30.49	31.70	1.21
	05/14/14	30.43	32.12	1.69
	05/23/14	30.62	32.14	1.52
	06/06/14	31.28	32.05	0.77
	06/13/14	31.64	32.07	0.43
	06/18/14	31.90	32.00	0.10
	06/25/14	32.02	32.15	0.13

Table 7 (Cont'd).

A Summary of Historic & Current Free Product Thicknesses

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW14	05/07/14	31.33	34.44	3.11
	05/14/14	31.44	34.40	2.96
	05/23/14	31.42	34.49	3.07
	06/06/14	31.46	35.40	3.94
	06/13/14	31.72	35.55	3.83
	06/18/14	32.09	35.05	2.96
	06/25/14	32.13	35.22	3.09
MW15	05/07/14	32.37	34.88	2.51
	05/14/14	32.39	34.95	2.56
	05/23/14	32.44	34.97	2.53
	06/06/14	32.68	35.39	2.71
	06/13/14	32.85	35.59	2.74
	06/18/14	33.02	35.65	2.63
	06/25/14	33.11	35.83	2.72
MW19	05/07/14	NA	33.12	NA
	05/14/14	33.10	33.27	0.17
	05/23/14	33.12	33.31	0.19
	06/06/14	33.38	33.78	0.40
	06/13/14	33.56	33.84	0.28
	06/18/14	33.56	34.12	0.56
	06/25/14	33.88	33.98	0.10

¹Well screen installed below groundwater; product thickness is likely higher than the measured value.

Table 8.
A Summary of Free Product Recovery Events

Event Date	Well Identification	Pre-Event Product Thickness (feet)	Post-Event Product Thickness (feet)	Approximate Time Vacuum Applied (minutes)	Total Recovery (gallons)	Cumulative Recovery (gallons)
04/16/14	MW01	0.14 ¹	0.00	60	375	2,134
	MW02	4.54	0.00	60		
	MW03	4.83	0.00	60		
04/25/14	MW01	0.22 ¹	0.00	60	350	2,484
	MW02	4.38	0.33	55		
	MW03	5.18	0.00	55		
05/02/14	MW01	0.00 ¹	0.00	60	300	2,784
	MW02	4.06	0.94	60		
	MW03	4.91	0.00	60		
05/07/14	MW01A	1.29	0.00	25	300	3,084
	MW02	3.76	0.90	40		
	MW03	4.79	0.00	30		
	MW07	0.03	0.00	20		
	MW12	1.21	0.00	20		
	MW14	3.11	0.00	45		
	MW15	2.51	1.29	45		
05/14/14	MW01A	3.77	0.05	35	170	3,254
	MW02	3.63	0.00	45		
	MW03	5.03	0.00	60		
	MW12	1.69	0.00	30		
	MW14	2.96	0.00	45		
	MW15	2.56	0.00	45		
05/23/14	MW01A	3.91	0.00	50	270	3,524
	MW02	3.59	0.02	40		
	MW03	5.32	0.00	50		
	MW12	1.52	0.00	30		
	MW14	3.07	0.00	40		
	MW15	2.53	0.05	30		

Table 8 (Cont'd).
A Summary of Free Product Recovery Events

Event Date	Well Identification	Pre-Event Product Thickness (feet)	Post-Event Product Thickness (feet)	Approximate Time Vacuum Applied (minutes)	Total Recovery (gallons)	Cumulative Recovery (gallons)
06/06/14	MW01A	4.18	0.00	30	175	3,699
	MW02	3.55	0.00	30		
	MW03	5.20	0.00	30		
	MW12	0.77	0.00	20		
	MW14	3.94	0.00	30		
	MW15	2.71	0.02	30		
	MW19	0.40	0.00	5		
06/13/14	MW01A	3.89	0.00	50	325	4,024
	MW02	3.63	0.00	50		
	MW03	5.00	0.00	60		
	MW12	0.43	0.00	35		
	MW14	3.83	0.00	40		
	MW15	2.74	1.02	65		
06/18/14	MW01A	2.85	0.00	30	160	4,184
	MW02	3.54	0.00	30		
	MW03	4.37	0.00	25		
	MW14	2.96	0.00	30		
	MW15	2.63	0.03	30		
	MW19	0.56	0.00	10		
06/25/14	MW01A	3.04	0.00	30	200	4,384
	MW02	3.51	0.00	30		
	MW03	4.56	0.00	30		
	MW12	0.13	0.00	10		
	MW14	3.09	0.00	30		
	MW15	2.72	0.00	30		

¹Well screen installed below groundwater; product thickness is likely higher than the measured value.

Table 9.
A Summary of Free Product Analytical Results

Sample ID	Date	Specific Gravity	Octane	Paraffin (wt%)	Isoparaffins (wt%)	Aromatics (wt%)	Naphthenics (wt%)	Olefins (wt%)	Benzene (wt%)	Toluene (wt%)	Ethylbenzene (wt%)	Xylenes (wt%)	MTBE (wt%)	Naphthalene (wt%)	ethyl tert-butyl ether (wt%)	tert-Amyl methyl ether (wt%)	diisopropyl ether (wt%)	tert-Amyl alcohol (wt%)
FP01	03/19/14	0.7439	89.530	7.7060	38.8390	42.1237	5.3421	5.9892	0.288	9.626	2.219	12.649	0.02	0.297	ND ¹	ND	ND	ND

¹ND = Non Detected.

Table 10.

A Summary of the ¼-Mile Radius Receptor Survey Results

Receptor ID	Name/Address¹	Well/Spring Location From UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
DW01	Meadows of Dan Food Market 2609 Jeb Stuart Highway	~75 feet Northwest	Property maintains a drilled supply well with steel casing located within the store building. The date of installation and additional construction details are unknown.
DW02	Poor Farmer's Market 2616 Jeb Stuart Highway	~135 feet South	Property maintains a drilled supply well with steel casing located within the store building. The well was reportedly installed in 1962. Additional construction details are unknown. A residence is also located on the property, which obtains potable water from the same onsite supply well. Carbon filtrations units have been installed as part of the VA DEQ alternate water supply program.
DW03	Jane's County Café 2588 Jeb Stuart Highway	~255 feet Southwest	Property maintains a drilled supply well with steel casing located within a well house behind the café. The date of installation and additional construction details are unknown. Carbon filtrations units have been installed as part of the VA DEQ alternate water supply program.
DW04	Commercial Property 2554 Jeb Stuart Highway	~375 feet Southwest	A drilled supply well is located beneath the wooden porch at the DW04 property. The drilled supply well reportedly provides potable water to the properties identified as DW04, DW05, and DW06. The date of installation and additional construction details are unknown. During this phase of investigation the power to DW04 was disconnected and attempts to contact the property owner have been unsuccessful.
DW05	Commercial Property (For Sale) Formerly Dan River Books 36 Concord Road		
DW06	Commercial Property (Seasonal) 10 Concord Road		
DW07	Mountain Meadow Farm & Craft (seasonal) 12134 Squirrel Spur Road	~1,210 feet Southwest	A spring/spring house is located on the DW08 property. The spring reportedly provides potable water to both the DW07 and DW08 properties.
DW08	Greenberry House Yarn 12206 Squirrel Spur Road	~730 feet Southwest	
DW09	Burnette Residence 282 Concord Road	~1,300 feet Southeast	Property maintains a spring/spring house that reportedly provides potable water to the property.
DW10	Meadows of Dan Community Center 2858 Jeb Stuart Highway	~1,350 feet East-Southeast	Property maintains a drilled supply well located within the Meadows of Dan Community Center building. The date of installation and construction details are unknown.
DW11	Agee Residence 2882 Jeb Stuart Highway	~1,415 feet East-Northeast	Property maintains a drilled supply well with PVC casing located on the east side of the residence. The date of installation and additional construction details are unknown.

Table 10 (Cont'd).

A Summary of the ¼-Mile Radius Receptor Survey Results

Receptor ID	Name/Address¹	Well/Spring Location From UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
DW12	Spangler Residence 2734 Jeb Stuart Highway	~630 feet East-Southeast	Property reportedly maintains a drilled supply well located on the south side of the residence. The supply well casing is reportedly buried and its exact location is unknown. The date of installation and additional construction details are unknown. Carbon filtrations units have been installed as part of the VA DEQ alternate water supply program.
DW13	Stanley Residence 2727 Jeb Stuart Highway	~550 feet East-Northeast	Property maintains a drilled supply well with steel casing located on the south side of the residence. The supply well is reportedly 340 feet deep; however, the date of installation and additional construction details are unknown.
DW14	Private Residence 2685 Jeb Stuart Highway	~325 feet East	Property maintains a drilled supply well with PVC casing located on the south side of the residence. The supply well was reportedly installed in ~2008-2009. Additional construction details are unknown.
DW15	Nancy's Candy Company 2684 Jeb Stuart Highway	~470 feet Southeast	Property maintains a drilled supply well with steel casing located on the south side of the building. The supply well was installed in 1998 to approximately 405 feet below the ground surface. In addition, 105 feet of steel casing was installed and the well was grouted from 0-50 feet. Carbon filtrations units have been installed as part of the VA DEQ alternate water supply program.
DW16	Commercial Property Former Mountain House Restaurant 2639 Jeb Stuart Highway	~175 feet East	Property maintains a drilled supply well with steel casing located within a well house on the east side of the property. The supply well was reportedly installed in 1982 to approximately 280 feet below the ground surface. Additional construction details are unknown.
DW17	Commercial Building (Multiple Businesses) 2577 Jeb Stuart Highway Meadows Merchant Building LLC	~200 feet Northwest	Property maintains a drilled supply well with steel casing located on the north side of the property. The top of casing is located below the ground within larger concrete casing. The date of installation and additional construction details are unknown.
DW18	Meadows of Dan Baptist Church 2511 Jeb Stuart Highway	~400 feet Northwest	Property maintains a drilled supply well with steel casing located within the parsonage. The date of installation and additional construction details are unknown.
DW19	Century Link Property 2646 Jeb Stuart Highway	~190 feet Southeast	Property maintains a drilled supply well located on the north side of the property. The top of casing is located below the ground within a manway. The date of installation and additional construction details are unknown.
DW20	Pond	~1,130 feet Southwest	The pond is located on the DW07 property and drains to an intermittent tributary to Tuggle Creek.
DW21	Unnamed Tributary	~950 feet East	Unnamed intermittent tributary to Tuggle Creek.
DW22	Unnamed Tributary	~1,030 feet Southwest	Unnamed intermittent tributary to Tuggle Creek.

¹Addresses are located in Meadows of Dan, VA 24120

Table 11. In Situ Air Sparging with Soil Vapor Extraction¹	
Advantages	<ul style="list-style-type: none"> • reduction in VOC vapors below water bearing horizon • enhance vapor extraction and downgradient pumping effectiveness
Limitations	<ul style="list-style-type: none"> • effectiveness is limited in low permeability or heterogeneous media • removal of primarily volatile constituents • ability to facilitate vapor- and adsorbed-phase migration • maintenance of air distribution in groundwater; availability of performance data is limited
Cleanup Levels & Timing²	<ul style="list-style-type: none"> • generally, achieves maximum contaminant levels for VOCs • notable reduction in contaminant mass in ~6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • notable reduction in contaminant mass in ~6 months to 2 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface]
Costs³	<ul style="list-style-type: none"> • ~\$60,000 to \$180,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~\$120,000 to \$200,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

¹Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510-F-93-029, October 1993.

²Site specific cleanup standards are determined by the state regulatory agency.

³Costs include necessary equipment and system operation and maintenance for the time frame specified.

Table 12. Groundwater Pump & Treat Systems¹	
Advantages	<ul style="list-style-type: none"> • reduction in contaminant concentrations and maintenance of areal extent of plume(s)
Limitations	<ul style="list-style-type: none"> • effectiveness is limited in aquifers with low permeability potential • may require extensive duration periods to achieve maximum efficiency • groundwater with a high iron content may affect treatment quality • monitoring of water table fluctuations throughout system operation
Cleanup Levels & Timing²	<ul style="list-style-type: none"> • ~1 to 3 years [assuming no delays in corrective action and a relatively homogenous, permeable subsurface, and minimal source contaminants] • ~2 to 5 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface, and generous source contaminants]
Costs³	<ul style="list-style-type: none"> • ~\$150,000 to \$200,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface, and minimal source contaminants] • ~\$250,000 to \$300,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface, and generous source contaminants]

¹Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510-F-93-029, October 1993.

²Site specific cleanup standards are determined by the state regulatory agency.

³Costs include necessary equipment and system operation and maintenance for the time frame specified.

Table 13. In Situ Bioremediation¹	
Advantages	<ul style="list-style-type: none"> • in-place degradation of contaminants • achieves lower concentrations than pump & treat
Limitations	<ul style="list-style-type: none"> • effectiveness is limited in low permeability or heterogeneous media • ability to transport nutrients and oxygen may be limited by soil and groundwater mineral content or pH • targets biodegradable constituents only
Cleanup Levels & Timing²	<ul style="list-style-type: none"> • generally, achieves maximum contaminant levels • achieves > or = 90% reduction of biodegradable constituents • ~90% reduction in 6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~90% reduction in 6 months to 4 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface] • additional system operation time required for hydrocarbons maintaining a composition with a greater density
Costs³	<ul style="list-style-type: none"> • ~\$150,000 to \$250,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~\$200,000 to \$500,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

¹Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510-F-93-029, October 1993.

²Site specific cleanup standards are determined by the state regulatory agency.

³Costs include necessary equipment and system operation and maintenance for the time frame specified.

Table 14. Dual-Phase Extraction¹	
Advantages	<ul style="list-style-type: none"> • reduction in contaminant concentrations and maintenance of areal extent of plume(s) • ability to remove VOCs from soils • ability to dewater an area facilitating additional recovery of VOCs from soils • effective in low permeability or heterogeneous media
Limitations	<ul style="list-style-type: none"> • potential for treatment of vapor recovery stream • groundwater with a high iron content may affect treatment quality • monitoring of water table fluctuations throughout system operation
Cleanup Levels & Timing²	<ul style="list-style-type: none"> • notable reduction in contaminant mass in ~6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • notable reduction in contaminant mass in ~6 months to 2 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface]
Costs³	<ul style="list-style-type: none"> • ~\$80,000 to \$180,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~\$120,000 to \$200,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

¹Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510 F-93-029, October 1993.

²Site specific cleanup standards are determined by the state regulatory agency.

³Costs include necessary equipment and system operation and maintenance for the time frame specified.

APPENDIX B

Maps

Site Map (05/14/14)
Aerial Map
Topographic Map
Soil Boring Location Map
Monitoring Well Location Map
Potentiometric Surface Map (05/14/14)
Potentiometric Surface Map (06/13/14)
TPH-GRO Isoconcentration Map
TPH-DRO Isoconcentration Map
Benzene Isoconcentration Map
Toluene Isoconcentration Map
Ethylbenzene Isoconcentration Map
Xylenes Isoconcentration Map
MTBE Isoconcentration Map
Naphthalene Isoconcentration Map
Total BTEX Isoconcentration Map
Free Phase Petroleum Plume Map
Potential Receptors Location Map



TITLE:	SITE MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003A
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF

Aerial Map

Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, Virginia 24120



GREENE
ENVIRONMENTAL SERVICES LLC.

200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596

Fax: 540-483-3381

www.greene-environmental.com

**PATRICK COUNTY,
VIRGINIA**

Source: Google Earth

Scale: Not to Scale

Project: SCRA

Client: T&M, M of D, L.L.C.

Greene Job #: FMMD1003

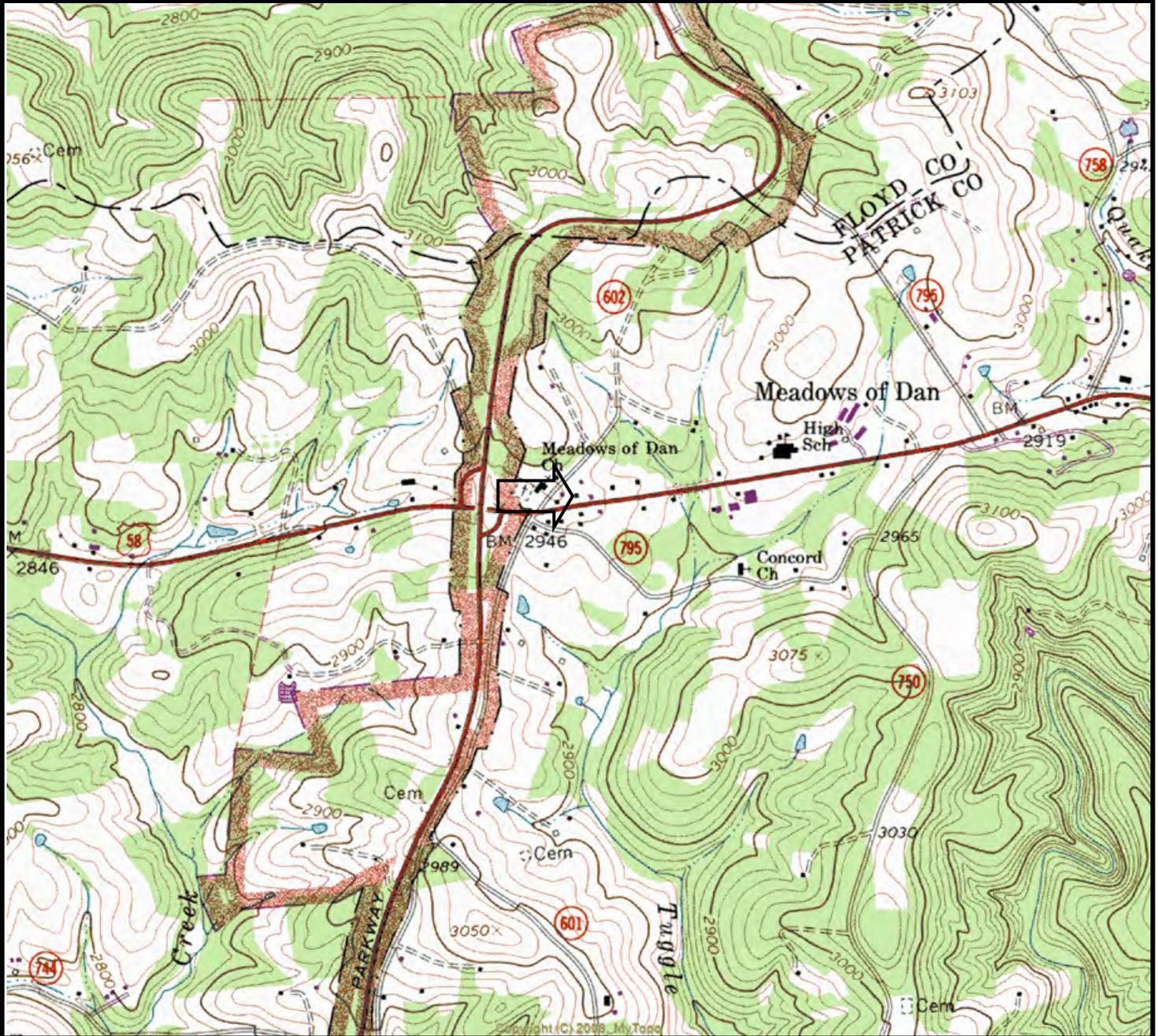
Date: July 8, 2014



Latitude:
036.7353972° N
Longitude:
080.4077838° W

Topographic Map

Meadows of Dan Food Market
 2609 Jeb Stuart Highway
 Meadows of Dan, Virginia 24120



ENVIRONMENTAL SERVICES LLC
 200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596
 Fax: 540-483-3381

www.greene-environmental.com

MEADOWS of DAN, VIRGINIA

Source: U.S.G.S. Topographic Map of the Meadows of Dan Quadrangle, Virginia, 7.5 Minute Series (1968, revised 1985)
 Scale: Not to Scale Contour Interval: 20 Feet
 Vertical Datum: National Geodetic Vertical Datum 1929
 Horizontal Datum: North American Datum 1927

Project: SCRA

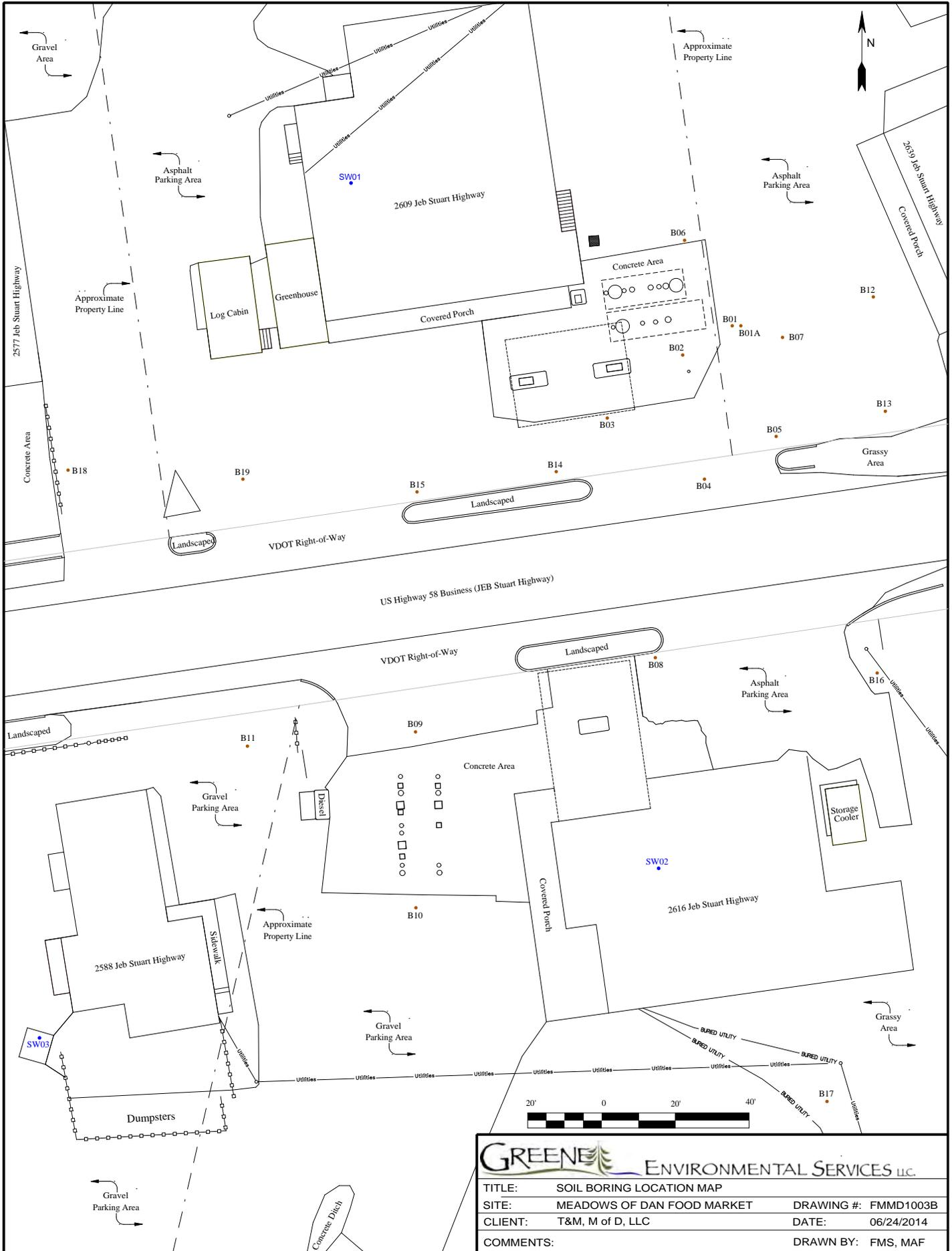
Client: T&M, M of D, L.L.C.

Greene Job #: FMMD1003

Date: July 8, 2014

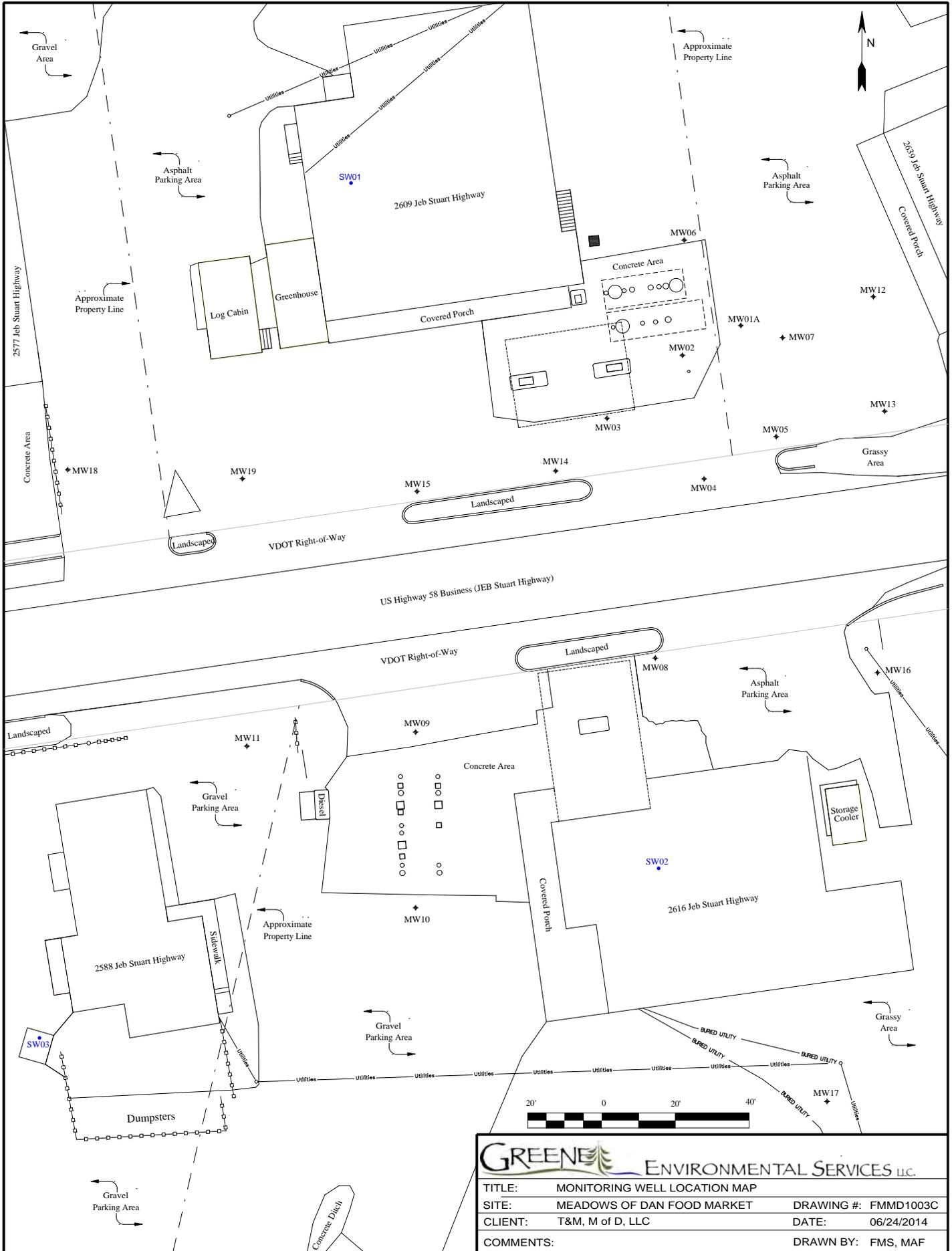


Latitude: 036.7353972° N
 Longitude: 080.4077838° W

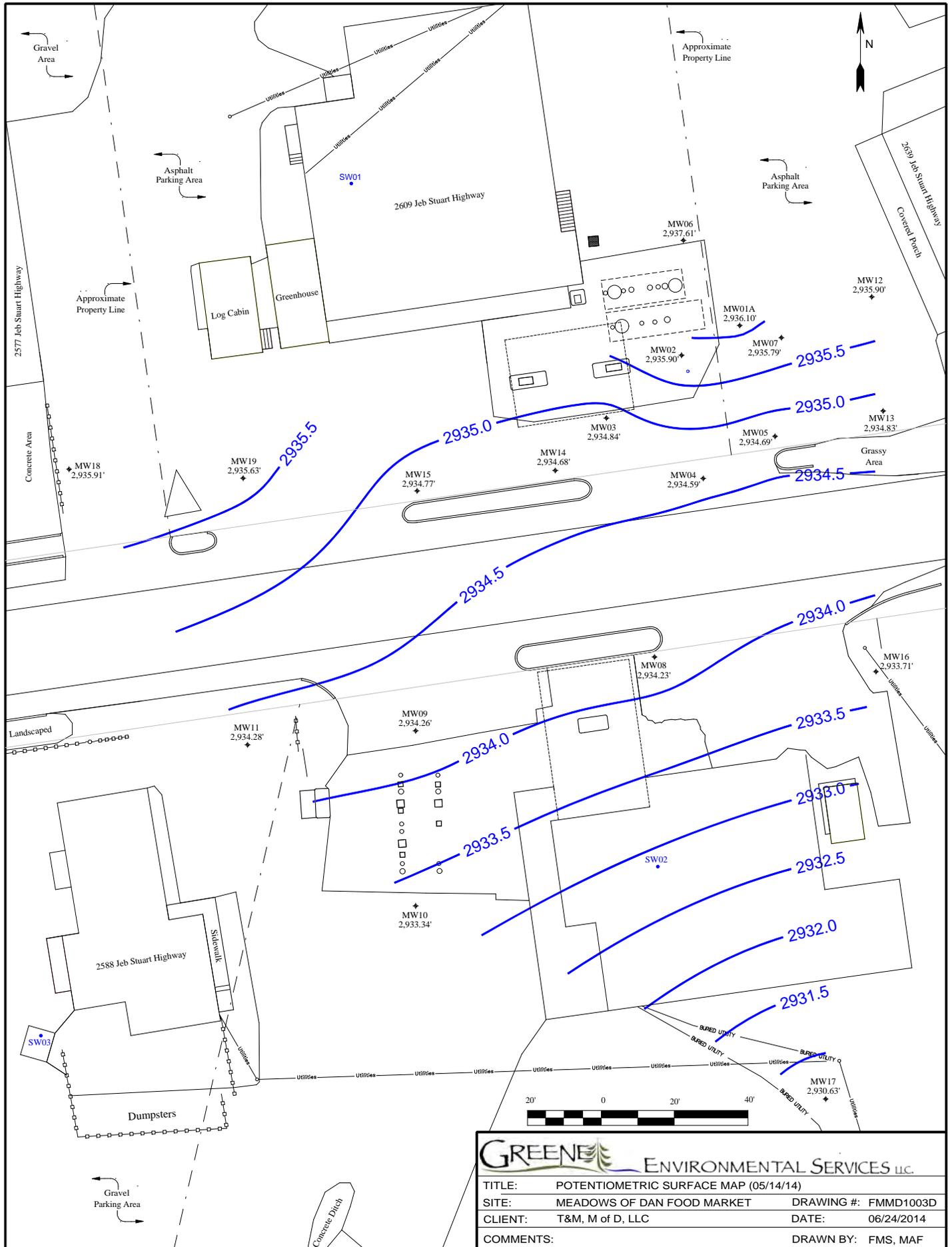


GREENE ENVIRONMENTAL SERVICES LLC.

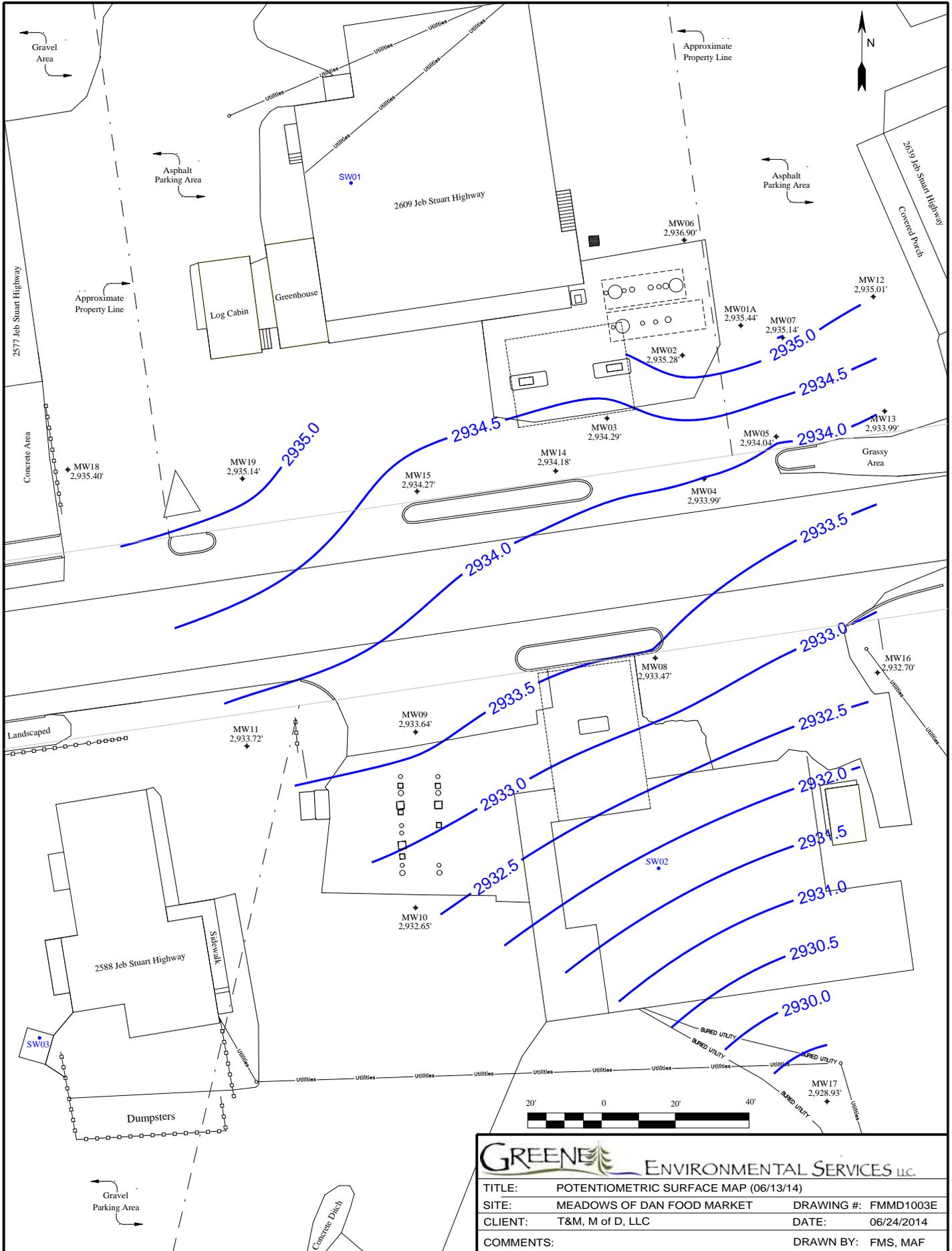
TITLE:	SOIL BORING LOCATION MAP	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003B
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



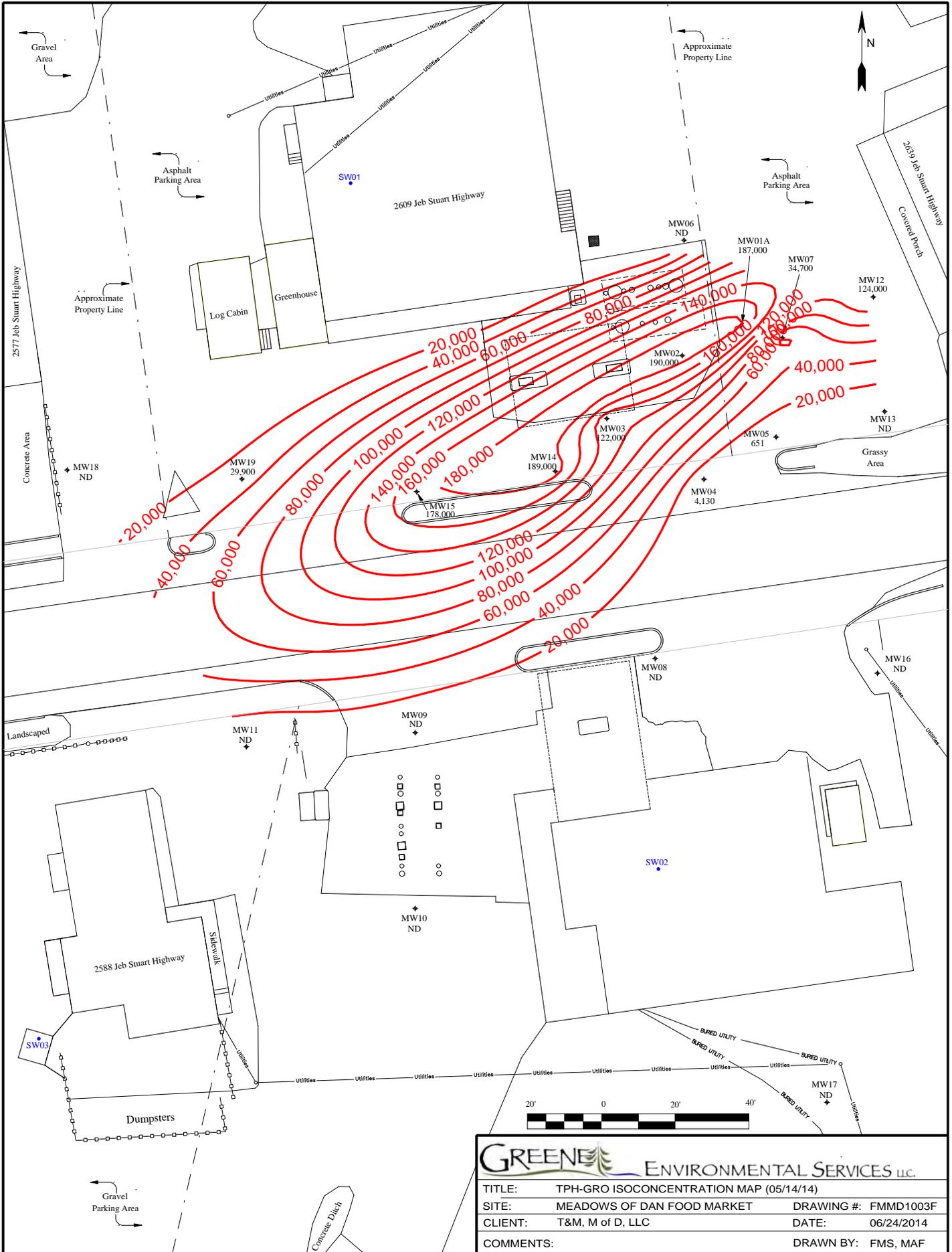
TITLE:	MONITORING WELL LOCATION MAP	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003C
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



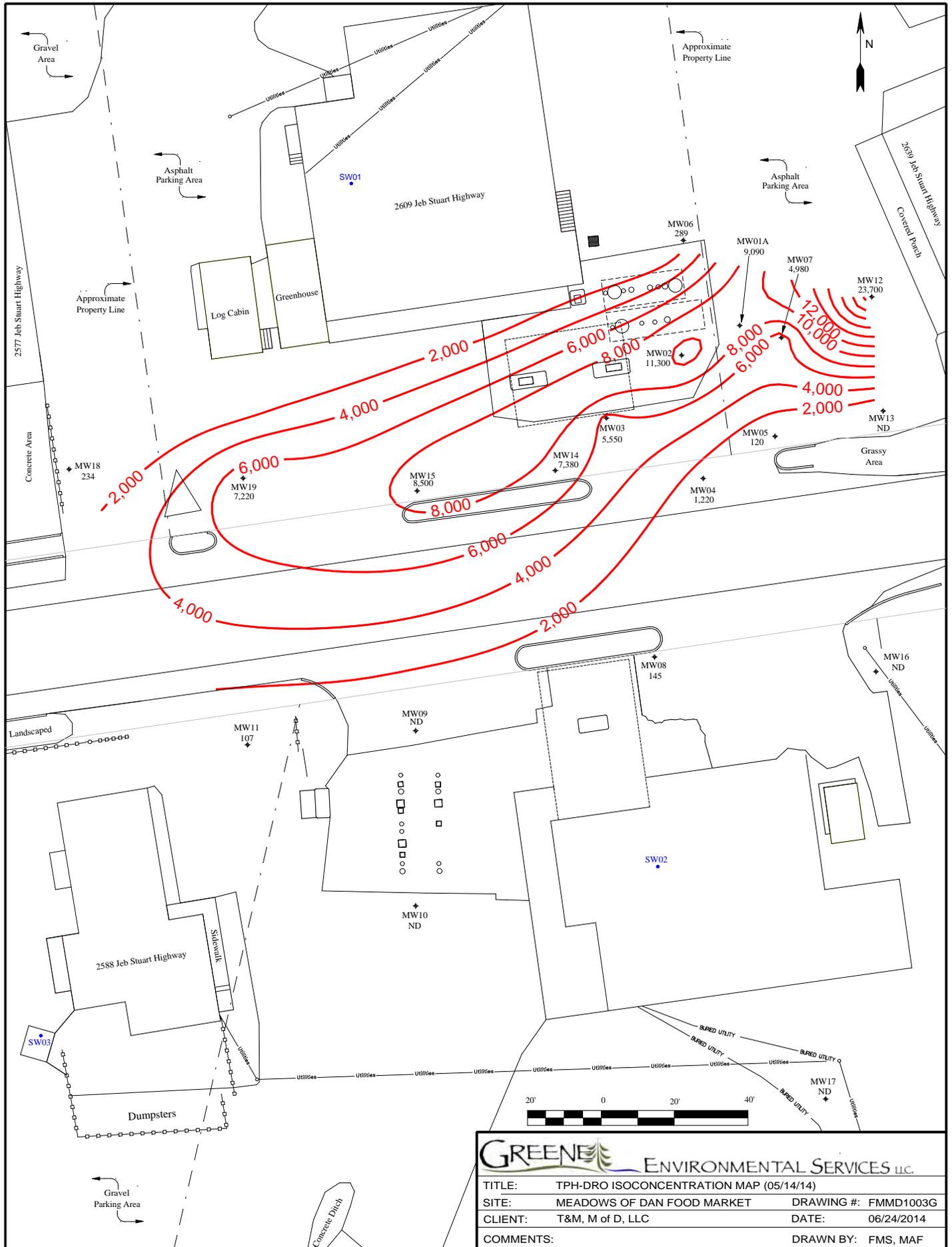
TITLE:	POTENTIOMETRIC SURFACE MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003D
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:	DRAWN BY: FMS, MAF	



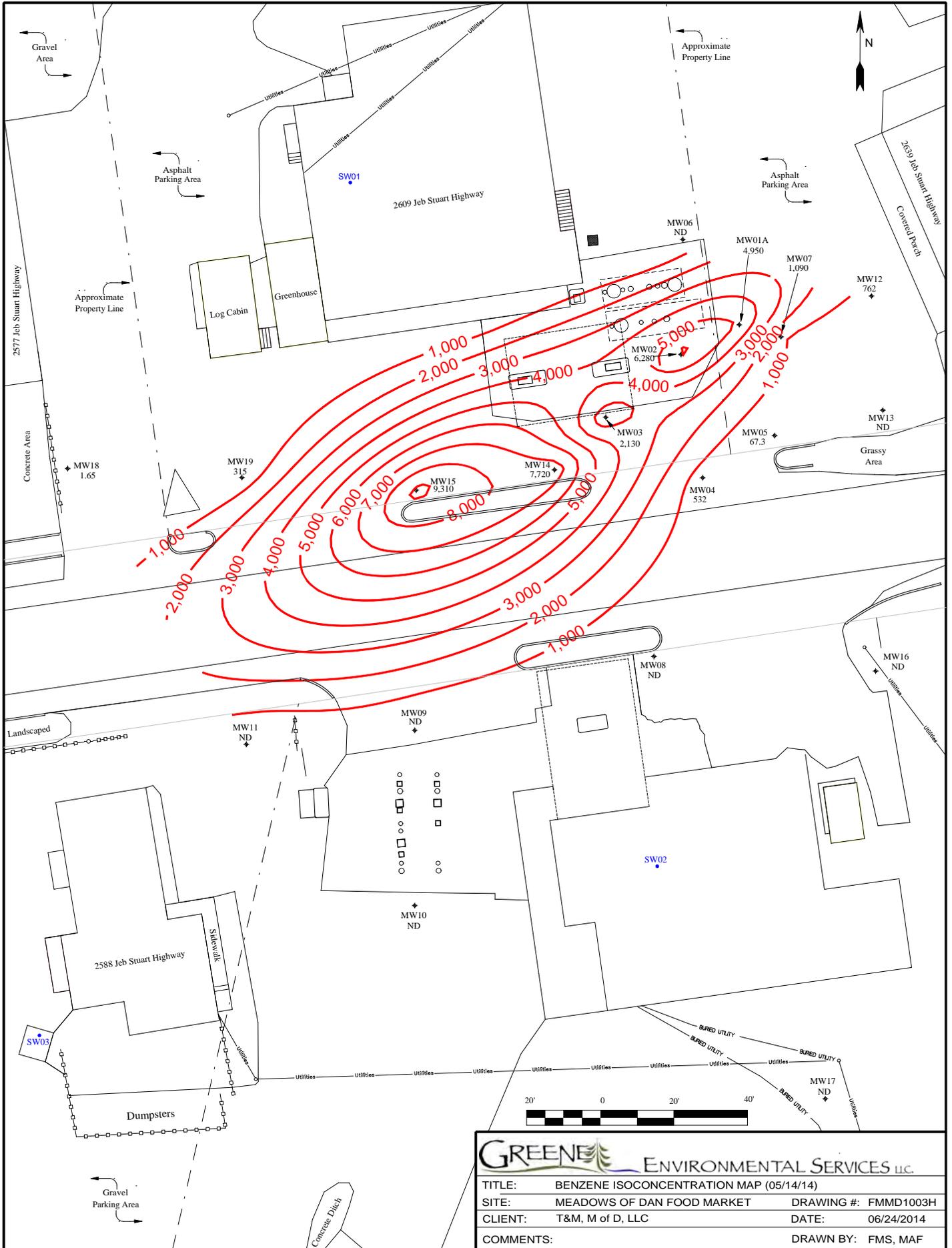
TITLE:	POTENTIOMETRIC SURFACE MAP (06/13/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003E
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



TITLE:	TPH-GRO ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003F
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



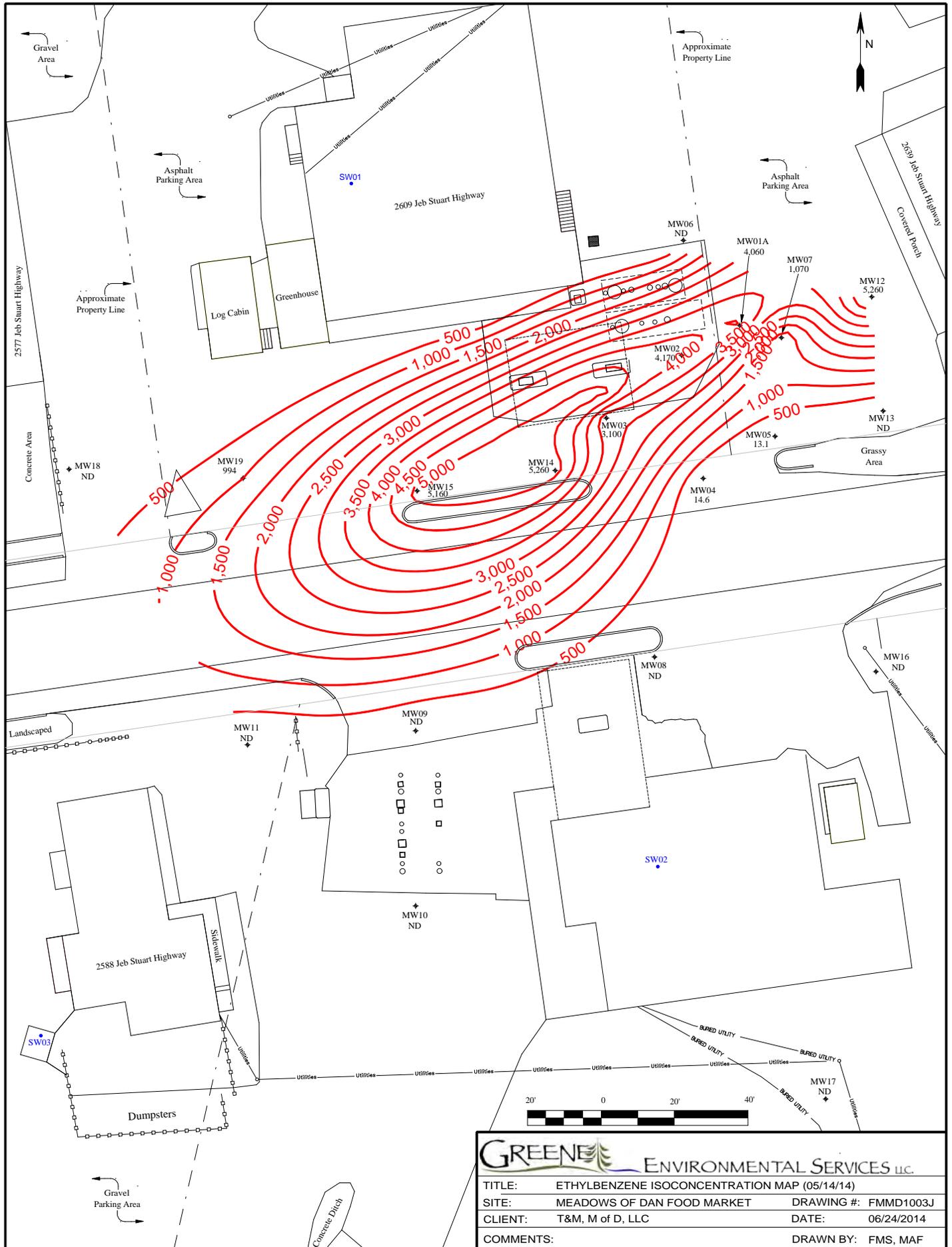
TITLE:	TPH-DRO ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003G
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:	DRAWN BY: FMS, MAF	



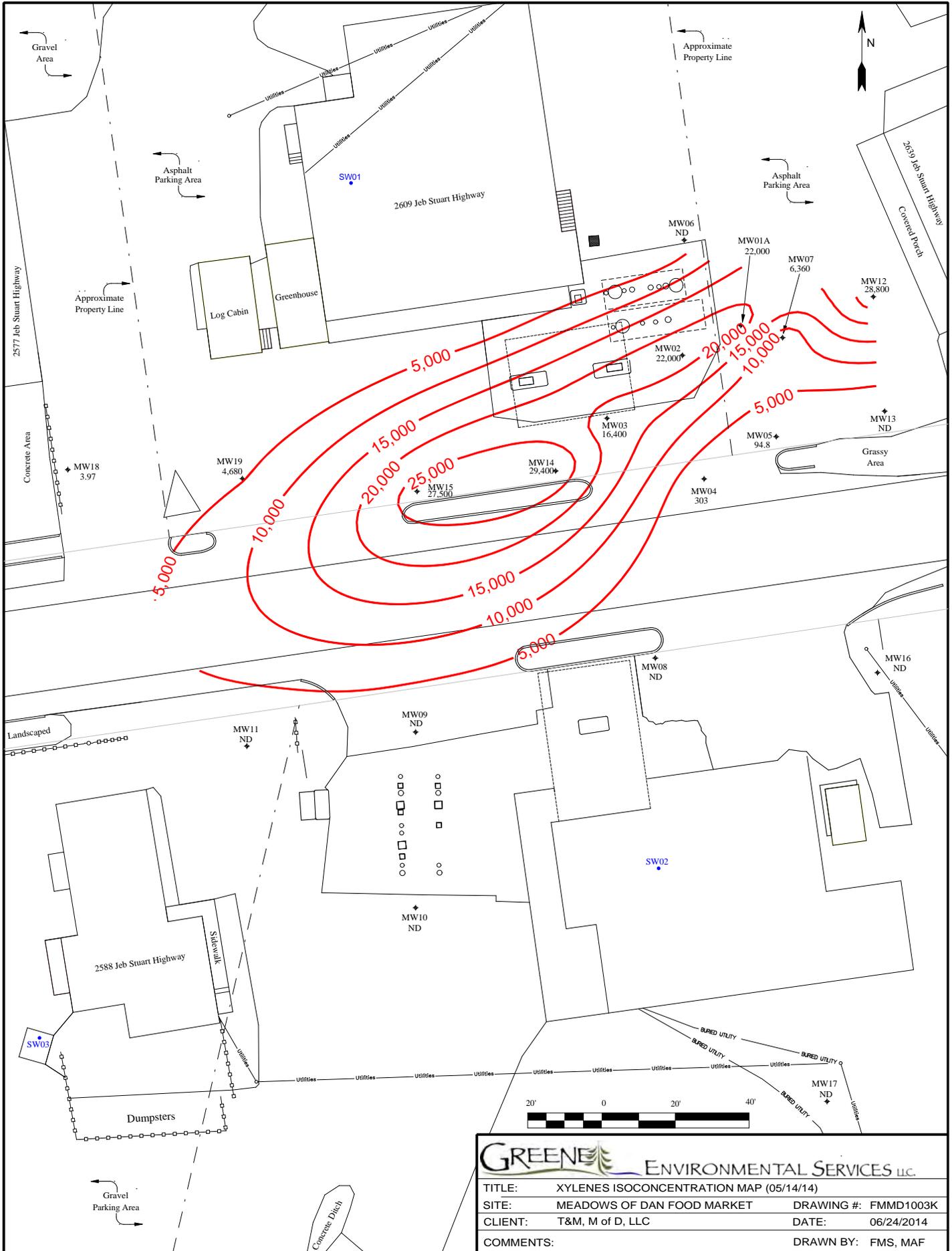
TITLE:	BENZENE ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003H
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:	DRAWN BY: FMS, MAF	



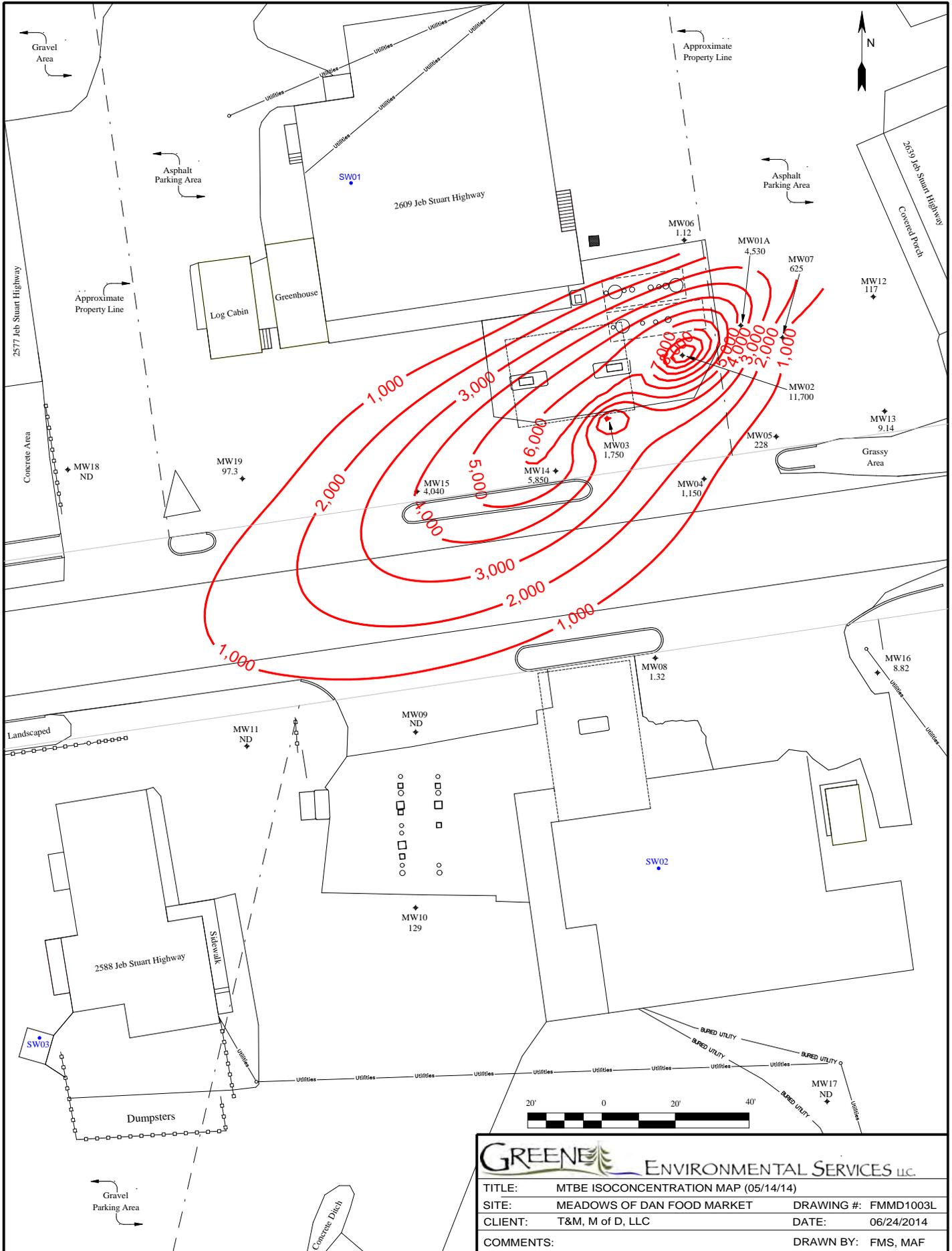
TITLE:	TOLUENE ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD10031
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



TITLE:	ETHYLBENZENE ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003J
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF

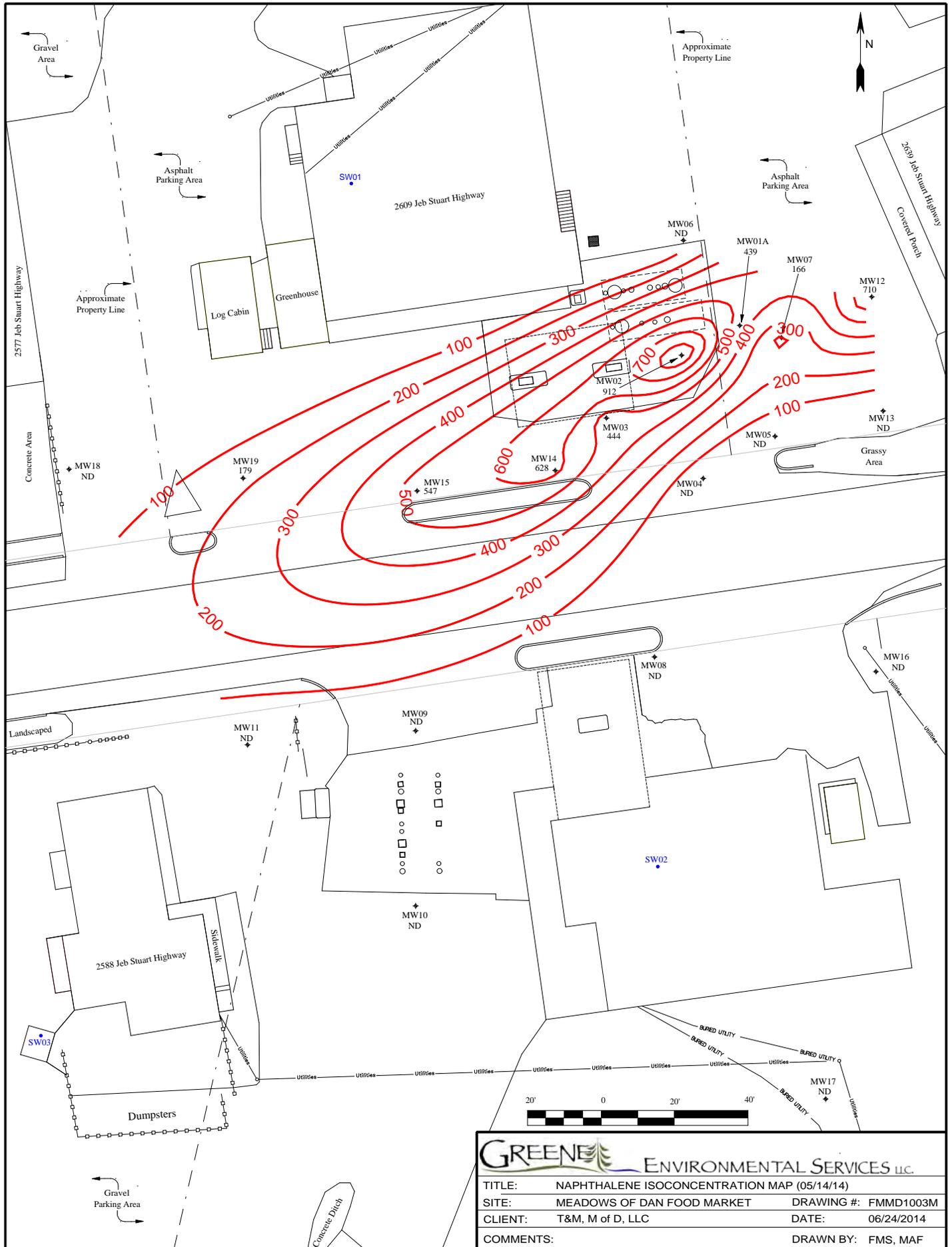


TITLE:	XYLENES ISOCONCENTRATION MAP (05/14/14)
SITE:	MEADOWS OF DAN FOOD MARKET
CLIENT:	T&M, M of D, LLC
COMMENTS:	
DRAWING #:	FMMD1003K
DATE:	06/24/2014
DRAWN BY:	FMS, MAF

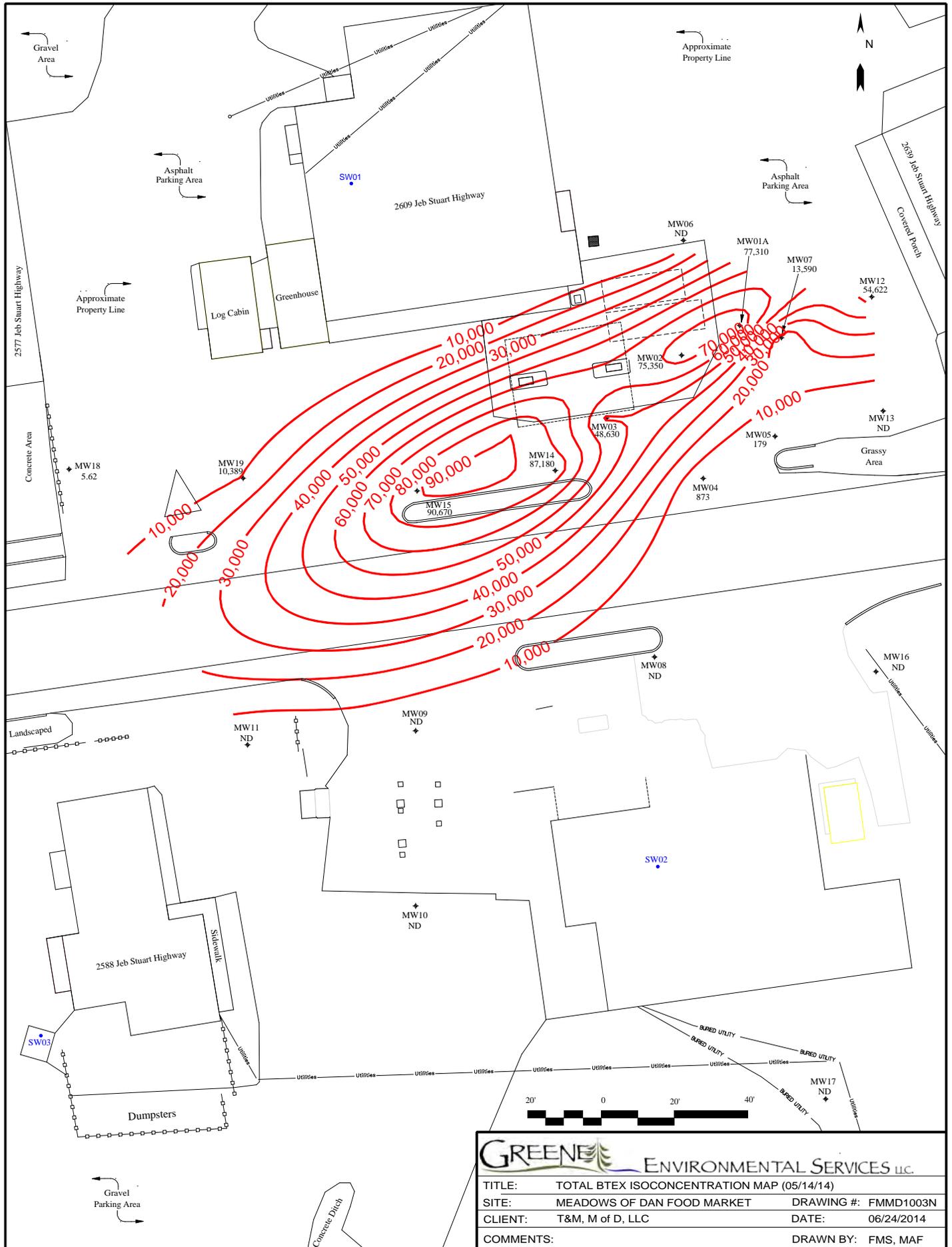


GREENE ENVIRONMENTAL SERVICES LLC.

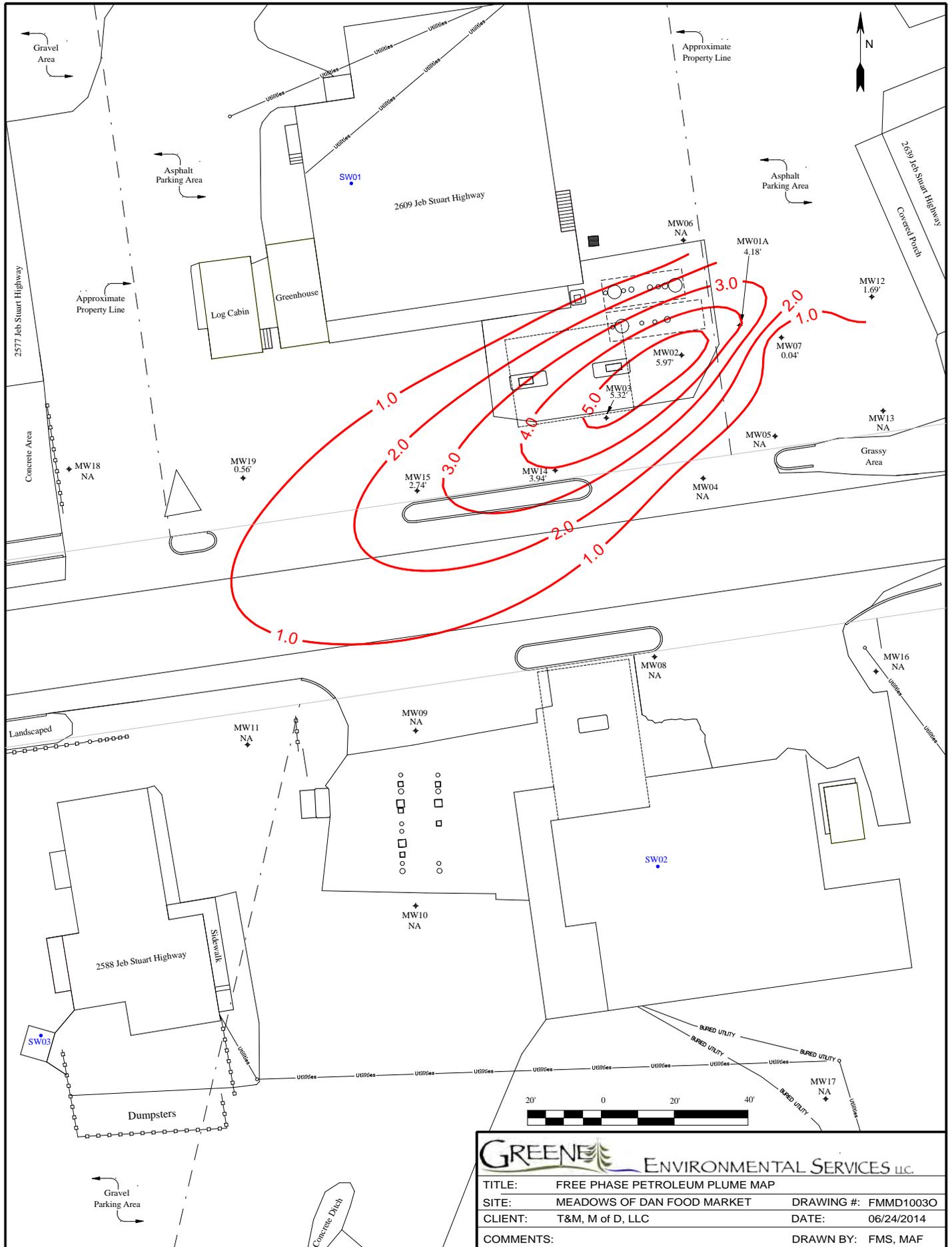
TITLE:	MTBE ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003L
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



TITLE:	NAPHTHALENE ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003M
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:	DRAWN BY: FMS, MAF	



TITLE:	TOTAL BTEX ISOCONCENTRATION MAP (05/14/14)	
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #: FMMD1003N
CLIENT:	T&M, M of D, LLC	DATE: 06/24/2014
COMMENTS:		DRAWN BY: FMS, MAF



TITLE:	FREE PHASE PETROLEUM PLUME MAP
SITE:	MEADOWS OF DAN FOOD MARKET
CLIENT:	T&M, M of D, LLC
COMMENTS:	
DRAWING #:	FMMD10030
DATE:	06/24/2014
DRAWN BY:	FMS, MAF

Potential Receptors Location Map

Meadows of Dan Food Market
 2609 Jeb Stuart Highway
 Meadows of Dan, Virginia 24120



GREENE
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**PATRICK COUNTY,
 VIRGINIA**
 Source: Google Earth
 Scale: Not to Scale

Project: SCRA
 Client: T&M, M of D, L.L.C.
 Greene Job #: FMMD1003
 Date: July 8, 2014


 Latitude: 036.7353972° N
 Longitude: 080.4077838° W

APPENDIX C

Geologic Information

Soil Boring Logs/Monitoring Well Construction Diagrams

Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B07

Diagram of Monitoring Well: MW07

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							75	150	225	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B07-1 (0.5'-4') Fine- to medium-grained; light brown to reddish brown; micaceous silty fine sand with mica flakes throughout; very slight petroleum odor; weathered		B07-1		ND/ND	0.7			
2										
3										
4		B07-2 (4'-8') Fine- to medium-grained; light, orangish brown; micaceous silty fine sand with mica flakes throughout; very slight petroleum odor; large-grained quartz at approximately 7' bgs; weathered	4.0	B07-2		ND/ND	1.1			
5										
6										
7										
8		B07-3 (8'-12') Fine- to medium-grained; brown; micaceous silty fine sand with mica structure at approximately 10' bgs; drastic change to a silty clay with mica flakes throughout at approximately 11' bgs; very slight petroleum odor	8.0	B07-3		ND/ND	1.5			
9										
10										
11										
12		B07-4 (12'-16') Fine- to medium-grained; light, orangish brown to whitish, mottled color; micaceous silty fine sand with quartz rock fragments at approximately 15' bgs; no petroleum odor; weathered	12.0	B07-4		ND/ND	2.7			
13										
14										
15										
16		B07-5 (16'-20') Fine- to medium-grained; light brown to reddish brown; micaceous silty fine sand with mica structure throughout; large-grained quartz rock fragments at approximately 18' bgs to bottom; no petroleum odor; weathered	16.0	B07-5		ND/ND	7.2			
17										
18										
19										
20		B07-6 (20'-24') Fine- to medium-grained; brown to tannish brown; micaceous silty fine sand with relic mica structure at approximately 23' bgs; mica flakes throughout; small-grained quartz rock fragments at approximately 23' bgs; very slight petroleum odor; weathered	20.0	B07-6		ND/0.105	10.5			
21										
22										
23										
24			24.0				70.7			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B07

Diagram of Monitoring Well: MW07

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							75	150	225		
25		B07-7 (24'-28') Fine- to medium-grained; brown to orangish brown; micaceous silty fine sand to fine silty sand; relic mica structure at approximately 25'-27' bgs; drastic change in relic structure at approximately 27' bgs; moisture present; petroleum odor		B07-7		30.7/0.220	70.7	130.9		<p>#3 Silica Sand</p> <p>(DTW) - 31.83' - (06/18/14)</p> <p>2" Slotted Screen</p>	
26			28.0								
27											
28		B07-8 (28'-31') Fine- to medium-grained; light brown to grayish brown; micaceous silty fine sand with heavy mica relic structure throughout; moisture evident; strong petroleum odor; small-grained quartz fragments at approximately 31' bgs;		B07-8		ND/6.14		259.7			
29											
30											
31		Rod refusal at approximately 31'bgs, switched to hollow-stem augers.	31.0								
32		B07-9 (31'-35') Fine- to medium-grained; light brown to grayish brown; micaceous silty fine sand with heavy mica relic structure throughout; moisture evident; strong petroleum odor;		B07-9		ND/0.252		29.5			
33											
34											
35		B07-10 (35'-40') Fine- to medium-grained; light brown to grayish brown; micaceous silty fine sand with heavy mica relic structure throughout; moisture evident; strong petroleum odor;		B07-10		NA/NA		28.7			
36											
37											
38											
39											
40		No additional samples taken. Converted B07 to MW07 at approximately 45' bgs.	40.0								
41											
42											
43											
44											
45		End of Borehole	45.0								
46											
47											
48											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B08

Diagram of Monitoring Well: MW08

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B08-1 (0.5'-4') Medium-grained; reddish-orange brown; silty clay mix with minor mica flakes; weathered; no petroleum odor; minor rock fragments at approximately 4' bgs		B08-1		NA/NA	0.0			
2			4.0							
4		B08-2 (4'-8') Fine-to medium-grained; reddish brown to orangish brown; silty clay mix with minor quartz fragments and sand at approximately 7' bgs; extremely weathered; no petroleum odor		B08-2		NA/NA	0.0			
5			8.0							
6										
8		B08-3 (8'-12') Fine-grained; orangish brown with mottled seams; fine-grained silty clay mix; less weathered; no petroleum odor		B08-3		NA/NA	0.0			
9			12.0							
10										
12		B08-4 (12'-16') Fine-grained; orangish brown with mottled seams; fine-grained silty clay mix; less weathered; no petroleum odor; medium-to large-grained quartz fragments at approximately 14-16' bgs; moisture present		B08-4		NA/NA	0.0			
13			16.0							
14										
15										
16		B08-5 (16'-20') Fine-grained; orangish brown with mottled seams; fine-grained silty clay mix; less weathered; no petroleum odor; medium- to large-grained quartz at approximately 19-20' bgs; moisture present		B08-5		NA/NA	0.0			
17			20.0							
18										
19										
20		B08-6 (20'-24') Fine-grained; orangish brown with mottled seams; fine-grained silty clay mix; less weathered; no petroleum odor; sandy silty mix at approximately 23' bgs; moisture present		B08-6		NA/NA	0.0			
21			24.0							
22										
23										
24		B08-7 (24'-26') Fine-grained; orangish brown with mottled seams; fine-grained silty clay mix; less weathered; no petroleum odor; extremely weathered; medium-to large-grained rock fragments at approximately 24-26' bgs		B08-7		ND/ND	0.0			
25			26.0							
26										
27										
28		Rod Refusal at approximately 26' bgs.								

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 04/28/2014

Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B08

Diagram of Monitoring Well: MW08

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
29		No additional samples taken. Converted B08 to MW08 at approximately 45' bgs.									
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45			45.0								
46		End of Borehole									
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B09

Diagram of Monitoring Well: MW09

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B09-1 (0.5'-4') Fine- to medium-grained; reddish brown to orangish brown; clay to silty clay mix and large-grained quartz structure at approximately 3.5' bgs; no petroleum odor	4.0	B09-1		NA/NA	0.0			
2										
3										
4		B09-2 (4'-8') Fine- to medium-grained; reddish brown to light orangish brown; micaceous silty clay to weathered medium-grained silty fine sand; heavy mica structure at approximately 7' bgs; no petroleum odor	8.0	B09-2		NA/NA	0.0			
5										
6										
7										
8		B09-3 (8'-12') Fine- to medium-grained; orangish brown with mottled seams; micaceous silty fine sand; weathered; no petroleum odor	12.0	B09-3		NA/NA	0.0			
9										
10										
11										
12		B09-4 (12'-16') Fine- to medium-grained silty fine sand with mica flakes throughout though not as prevalent at approximately 15' bgs; no petroleum odor	16.0	B09-4		NA/NA	0.0			
13										
14										
15										
16		B09-5 (16'-20') Fine- to medium-grained; reddish brown to tannish brown; micaceous silty fine sand with mica flakes throughout; heavy relic mica structure at approximately 19' bgs; no petroleum odor	20.0	B09-5		NA/NA	0.0			
17										
18										
19										
20		B09-6 (20'-24') Fine- to medium-grained; reddish brown to tannish brown; micaceous silty fine sand with mica flakes throughout; heavy relic mica structure at approximately 23' bgs; extremely weathered; no petroleum odor; moisture present	24.0	B09-6		NA/NA	0.0			
21										
22										
23										
24		B09-7 (24'-28') Fine- to medium-grained; light brown to tannish brown; micaceous silty fine sand with mica flakes throughout; no petroleum odor; moisture present	28.0	B09-7		ND/ND	0.0			
25										
26										
27										
28										

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B09

Diagram of Monitoring Well: MW09

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
29		B09-8 (28'-32') Fine- to medium-grained; light brown to tannish brown; micaceous silty fine sand with mica flakes throughout; heavily weathered with mica relic structure at approximately 31.5' bgs; no petroleum odor		B09-8		ND/ND	0.0				
30			32.0	B09-9		NA/NA	0.0				
31											
32		B09-9 (32'-33') Fine- to medium-grained; light brown to tannish brown; micaceous silty fine sand with mica flakes throughout; heavily weathered with mica relic structure	33.0								
33		Rod refusal at approximately 33' bgs. No additional samples taken. Converted B09 to MW09 at approximately 45' bgs.									
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45		End of Borehole	45.0								
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B10

Diagram of Monitoring Well: MW10

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		GRAVEL	0.5							
1		B10-1 (0.5'-4') Fine-grained; dark brown; silty clay mix with small rock fragments; very slight petroleum odor		B10-1		NA/NA	0.0			
2										
3										
4		B10-2 (4'-8') Fine-grained; dark brown to reddish brown; silty clay mix; weathered silty clay layer at approximately 7.5' bgs; no petroleum odor	4.0	B10-2		NA/NA	0.0			
5										
6										
7										
8		B10-3 (8'-12') Fine-grained; brown to reddish brown; clay to micaceous silty fine sand; no petroleum odor	8.0	B10-3		NA/NA	0.0			
9										
10										
11										
12		B10-4 (12'-16') Fine- to medium-grained; reddish brown to dark orangish brown; micaceous silty fine sand with minor clay content and weathered quartz fragments at approximately 15' bgs; no petroleum odor	12.0	B10-4		NA/NA	0.0			
13										
14										
15										
16		B10-5 (16'-20') Fine- to medium-grained; dark orangish brown; micaceous silty fine sand with minor clay content; no petroleum odor	16.0	B10-5		NA/NA	0.0			
17										
18										
19										
20		B10-6 (20'-24') Fine- to medium-grained; dark orangish brown with black seams; micaceous silty fine sand; weathered material at approximately 21' bgs; no petroleum odor	20.0	B10-6		ND/ND	0.0			
21										
22										
23										
24		B10-7 (24'-28') Fine- to medium-grained; dark orangish brown with black seams; micaceous silty fine sand; moisture present at approximately 25' bgs; no petroleum odor	24.0	B10-7		ND/ND	0.0			
25										
26										
27										
28			28.0				0.0			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 04/28/2014

Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B10

Diagram of Monitoring Well: MW10

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
29		B10-8 (28'-32') Fine- to medium-grained; dark orangish brown with black seams; micaceous silty fine sand;					0.0				
30		Rod refusal at approximately 32' bgs; switched to hollow-stem augers and continued drilling.		B10-8		NA/NA	0.0				
31			32.0								
32		No additional samples taken. Converted B10 to MW10 at approximately 42' bgs.									
33											
34											
35											
36											
37											
38											
39											
40											
41											
42		End of Borehole	42.0								
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B11

Diagram of Monitoring Well: MW11

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		GRAVEL	0.5							
1		B11-1 (0.5'-4') Fine- to medium-grained; light brown to tannish brown; silty fine sand with mica flakes and moderate clay content throughout; no petroleum odor		B11-1		NA/NA	0.0			
2										
3										
4		B11-2 (4'-8') Fine- to medium-grained; light brown to tannish brown; silty fine sand with mica flakes and moderate clay content throughout; no petroleum odor	4.0	B11-2		NA/NA	0.0			
5										
6										
7										
8		B11-3 (8'-12') Fine- to medium-grained; reddish brown to orangish brown with mottled seams; silty fine sand with mica flakes throughout; weathered quartz fragments at approximately 11' bgs; no petroleum odor	8.0	B11-3		NA/NA	0.0			
9										
10										
11										
12		B11-4 (12'-16') Fine- to medium-grained; reddish brown to orangish brown with black seams; silty fine sand with mica flakes throughout; heavier mica relic structure at approximately 15' bgs; no petroleum odor	12.0	B11-4		NA/NA	0.0			
13										
14										
15										
16		B11-5 (16'-20') Fine- to medium-grained; reddish brown to orangish brown with black seams; silty fine sand with mica flakes throughout; heavier mica relic structure; no petroleum odor	16.0	B11-5		NA/NA	0.0			
17										
18										
19										
20		B11-6 (20'-24') Fine- to medium-grained; tannish brown; silty fine sand with mica flakes; mica flakes stop at approximately 23' bgs; no petroleum odor	20.0	B11-6		ND/ND	0.3			
21										
22		Rod refusal at approximately 24' bgs; converted to hollow-stem augers and continued drilling.		B11-6		ND/ND	0.3			
23										
24			24.0							

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B11

Diagram of Monitoring Well: MW11

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
25		No additional samples taken. Converted B11 to MW11 at approximately 45' bgs.									
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45			End of Borehole	45.0							
46											
47											
48											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/28/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B12

Diagram of Monitoring Well: MW12

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							1000	2000	3000	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B12-1 (0.5'-4') Fine-to medium-grained; reddish brown to light orangish brown; micaceous silty fine sand with mica grains throughout; no petroleum odor; minor clay content at approximately 2' bgs		B12-1		NA/NA	0.0			
2										
3										
4		B12-2 (4'-8') Fine- to medium-grained; reddish brown; silty fine sand with heavy mica structure at approximately 7' bgs; weathered; no petroleum odor	4.0	B12-2		NA/NA	0.0			
5										
6										
7										
8		B12-3 (8'-12') Fine- to medium-grained; reddish brown; silty fine sand with heavy mica structure at approximately 7' bgs; weathered; no petroleum odor	8.0	B12-3		7.63/ND	0.2			
9										
10										
11										
12		B12-4 (12'-16') Medium-grained silty sand mix with heavy mica relic structure throughout; less weathered; slight petroleum odor	12.0	B12-4		11.6/ND	0.5			
13										
14										
15										
16		B12-5 (16'-20') Medium-grained; reddish brown to tannish brown with mottled seams; micaceous silty fine sand with minor clay content; heavy mica relic structure at approximately 19.5' bgs; no petroleum odor	16.0	B12-5		ND/ND	1.7			
17										
18										
19										
20		B12-6 (20'-23') Medium-grained; light orangish brown to reddish brown; micaceous silty fine sand with rock fragments at approximately 21' bgs; less mica relic structure; slight petroleum odor;	20.0	B12-6		ND/ND	17.2			
21										
22										
23		Rod refusal at approximately 23' bgs; switched to hollow-stem augers	23.0				489.2			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B12

Diagram of Monitoring Well: MW12

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							1000	2000	3000		
24		B12-7 (23'-35') Medium-grained; light orangish brown to reddish brown; micaceous silty fine sand with rock fragments; strong petroleum odor; evidence of groundwater at approximately 35' bgs.					489.2				
25											
26											
27											
28											
29					B12-7	75.1/1,110			3793.0		
30											
31											
32											
33											
34											
35		No additional samples taken. Converted B12 into MW12 at approximately 45' bgs.	35.0								
36											
37											
38											
39											
40											
41											
42											
43											
44											
45			45.0								
46		End of Borehole									

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B13

Diagram of Monitoring Well: MW13

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B13-1 (0.5'-4') Fine- to medium-grained; orangish brown to mottled brown; micaceous silty fine sand with rock fragments at approximately 3' bgs; no petroleum odor	4.0	B13-1		NA/NA	0.0			
2										
3										
4		B13-2 (4'-8') Fine- to medium-grained; mottled brown to reddish brown with white seams; micaceous silty fine sand to silty clay; no petroleum odor	8.0	B13-2		NA/NA	0.0			
5										
6										
7										
8		B13-3 (8'-12') Fine- to medium-grained; reddish brown to brown; silty clay to silty fine sand with mica flakes throughout; heavy mica relic structure at approximately 10.5' bgs; no petroleum odor	12.0	B13-3		NA/NA	0.0			
9										
10										
11										
12		B13-4 (12'-16') Medium-grained; brown to tannish brown; micaceous silty fine sand with mica structure throughout to silty fine sand; no petroleum odor	16.0	B13-4		NA/NA	0.0			
13										
14										
15										
16		B13-5 (16'-20') Medium-grained; tannish brown to grayish brown; silty fine sand to micaceous silty fine sand with medium- to large-grained quartz fragments at approximately 19' bgs; no petroleum odor; weathered	20.0	B13-5		NA/NA	0.0			
17										
18										
19										
20		B13-6 (20'-24') Medium-grained; tannish brown to grayish brown; silty fine sand with mica flakes throughout; weathered; no petroleum odor	24.0	B13-6		NA/NA	0.0			
21										
22										
23										
24		B13-7 (24'-28') Medium-grained; tannish brown to grayish brown; silty fine sand with mica flakes throughout; weathered; large rock fragments at approximately 27' bgs; no petroleum odor	28.0	B13-7		ND/ND	0.0			
25										
26										
27										
28										

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B13

Diagram of Monitoring Well: MW13

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
29		B13-8 (28'-31') Medium-grained; tannish brown to grayish brown with mottled seams; silty fine sand and relic mica structure at approximately 30' bgs; no petroleum odor		B13-8		ND/ND	0.0			<p>#3 Silica Sand</p> <p>(DTW) - 31.44' - (06/18/14)</p> <p>2" Slotted Screen</p>	
30							0.0				
31		Rod refusal at approximately 31' bgs; switched to hollow-stem augers and continued drilling.	31.0								
32		No additional samples taken. Converted B13 into MW13 at approximately 45' bgs.									
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45		End of Borehole	45.0								
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B14

Diagram of Monitoring Well: MW14

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B14-1 (0.5'-4') Fine- to medium-grained; grayish brown to reddish brown; micaceous silty fine sand with a minor clay component; no petroleum odor	4.0	B14-1		NA/NA	0.0			
5		B14-2 (4'-8') Fine- to medium-grained; dark brown to reddish brown; micaceous silty fine sand with mica relic structure throughout; weathered; no petroleum odor	8.0	B14-2		ND/ND	0.6			
9		B14-3 (8'-12') Fine- to medium-grained; tannish brown to reddish brown; micaceous silty fine sand with heavy mica relic structure throughout to silty sand with clay and mica throughout; weathered; slight petroleum odor	12.0	B14-3		ND/ND	8.3			
13		B14-4 (12'-16') Medium-grained; reddish brown to tannish orangish brown; silty fine sand with mica throughout; at approximately 15' bgs less mica and weathering observed; slight petroleum odor	16.0	B14-4		ND/ND	0.5			
17		B14-5 (16'-20') Medium-grained; tannish brown with mottled seams; micaceous silty fine sand with mica structure throughout; weathered; slight petroleum odor	20.0	B14-5		ND/ND	6.2			
21		B14-6 (20'-24') Medium-grained; tannish brown with mottled seams; micaceous silty fine sand with mica structure throughout; weathered; slight petroleum odor	24.0	B14-6		ND/ND	2.3			
25		B14-7 (24'-28') Medium-grained; tannish brown with mottled seams; micaceous silty fine sand with mica structure throughout; weathered; heavy mica relic structure at approximately 27' bgs and medium-grained quartz; slight petroleum odor	28.0	B14-7		ND/ND	17.2			
28			28.0				18.2			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 04/29/2014

Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B14

Diagram of Monitoring Well: MW14

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
29		B14-8 (28'-31.5') Medium-grained; tannish to orangish brown; micaceous silty fine sand with heavy mica relic structure to silty fine sand with minimal mica flakes; petroleum odor		B14-8		5.33/ND	18.2			<p>#3 Silica Sand (DTP) - 32.09' - (06/18/14)</p> <p>2" Slotted Screen (DTW) - 35.05' - (06/18/14)</p>	
30						18.9					
31		Rod refusal at approximately 31.5' bgs; converted to hollow-stem augers and continued drilling.	31.5								
32		No additional samples taken. Converted B14 into MW14 at approximately 45' bgs.									
33									<p>#3 Silica Sand (DTP) - 32.09' - (06/18/14)</p> <p>2" Slotted Screen (DTW) - 35.05' - (06/18/14)</p>		
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45		End of Borehole	45.0								
46									<p>#3 Silica Sand (DTP) - 32.09' - (06/18/14)</p> <p>2" Slotted Screen (DTW) - 35.05' - (06/18/14)</p>		
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B15

Diagram of Monitoring Well: MW15

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							500	1000	1500	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B15-1 (0.5'-6') Medium-grained; reddish brown; micaceous silty fine sand; no petroleum odor							1.3	
2										
3				B15-1		40.8/ND				
4										
5										
6			6.0							
6		B15-2 (6'-12') Medium-grained; tannish/grayish brown; micaceous silty fine sand with heavy mica relic structure throughout; weathered; no petroleum odor							2.8	
7										
8				B15-2		6.45/ND				
9										
10										
11										
12			12.0							
12		B15-3 (12'-16') Medium-grained; reddish brown to tannish/grayish brown; micaceous silty fine sand with heavy mica relic structure at approximately 15' bgs; weathered; no petroleum odor							3.5	
13										
14				B15-3		ND/ND				
15										
16			16.0							
16		B15-4 (16'-20') Medium-grained; reddish brown to tannish/grayish brown; micaceous silty fine sand with heavy mica relic structure and large mica flakes at approximately 19' bgs; slight petroleum odor							5.0	
17										
18				B15-4		ND/ND				
19										
20			20.0							
20		B15-5 (20'-24') Fine-to medium-grained; grayish brown; micaceous silty fine sand with mica flakes throughout; petroleum odor							18.8	
21										
22				B15-5		ND/ND				
23										
24			24.0							
24		B15-6 (24'-28') Fine- to medium-grained; grayish brown to tannish brown; micaceous silty fine sand with mica flakes throughout; petroleum odor							39.9	
25										
26				B15-6		ND/ND				
27										
28			28.0						940.4	

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 04/29/2014

Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B15

Diagram of Monitoring Well: MW15

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							500	1000	1500		
29	[Symbol: Fine- to medium-grained sand]	B15-7 (28'-32') Fine- to medium-grained; tannish/grayish brown; micaceous silty fine sand with heavy mica structure throughout; fine- to medium-grained quartz fragments at approximately 30' bgs; strong petroleum odor; moisture evident		B15-7	[Symbol: Vertical lines]	48.3/415	[Red shaded area]			[Diagram: Well completion details showing #3 Silica Sand (DTP) - 33.02' - (06/18/14) and 2" Slotted Screen (DTW) - 35.65' - (06/18/14)]	
30		Rod refusal at approximately 32' bgs; converted to hollow-stem augers and continued drilling.	32.0					1841.0			
31		No additional samples taken. Converted B15 to MW15 at approximately 45' bgs.									
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45			45.0								
46		End of Borehole									
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B16

Diagram of Monitoring Well: MW16

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		GRASS	0.5							
1		B16-1 (0.5'-5') Fine-grained; brown to reddish brown; clay; no petroleum odor		B16-1		NA/NA	0.0			
2										
3										
4										
5			5.0							
6		B16-2 (5'-10') Fine-grained; brown; clay with minor mica grains throughout; no petroleum odor		B16-2		NA/NA	0.0			
7										
8										
9										
10			10.0							
11		B16-3 (15'-20') Fine- to medium-grained; brown to reddish brown; silty clay with mica throughout; no petroleum odor		B16-3		NA/NA	0.0			
12										
13										
14										
15			15.0							
16		B16-4 (16'-20') Fine- to medium-grained; brown to reddish brown; silty clay with mica throughout; no petroleum odor		B16-4		NA/NA	0.0			
17										
18										
19										
20			20.0							
21		B16-5 (20'-25') Fine-to medium-grained; brown to light brown; micaceous silty fine sand with mica flakes and a minor clay component; weathered; no petroleum odor		B16-5		NA/NA	0.0			
22										
23										
24										
25			25.0				0.0			

Drill Method: HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES

GREENE
 ENVIRONMENTAL SERVICES LLC
 200 Buckwheat Lane
 Rocky Mount, VA 24151

Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B16

Diagram of Monitoring Well: MW16

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
26		B16-6 (25'-30') Fine- to medium-grained; light brown; micaceous silty fine sand with mica relic structure throughout; less weathered; no petroleum odor					0.0			
27				B16-6		ND/ND	0.0			
28										
29										
30			30.0							
31		B16-7 (30'-35') Fine- to medium-grained; light brown; micaceous silty fine sand with mica relic structure throughout; less weathered; no petroleum odor; groundwater present at approximately 32' bgs					0.0			
32										
33		Rod refusal at approximately 35' bgs; converted to hollow-stem augers and continued drilling.								
34				B16-7		ND/ND	0.0			
35			35.0							
36		No additional samples taken. Converted B16 to MW16 at approximately 45' bgs.								
37										
38										
39										
40										
41										
42										
43										
44										
45			45.0							
46		End of Borehole								
47										
48										
49										
50										

Drill Method: HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B17

Diagram of Monitoring Well: MW17

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		GRASS	0.5							
1		B17-1 (0.5'-5') Fine-grained; reddish brown; silty clay with mica grains throughout; weathered; no petroleum odor		B17-1		NA/NA	0.0			
2										
3										
4										
5			5.0							
6		B17-2 (5'-10') Fine-grained; reddish brown; silty clay with mica grains throughout; weathered; no petroleum odor		B17-2		NA/NA	0.0			
7										
8										
9										
10			10.0							
11		B17-3 (15'-20') Fine- to medium-grained; reddish brown to brown; micaceous silty clay with fine sand throughout; heavy mica relic structure at approximately 14' bgs; no petroleum odor		B17-3		NA/NA	0.0			
12										
13										
14										
15			15.0							
16		B17-4 (15'-20') Fine- to medium-grained; reddish brown to brown; micaceous silty clay with fine sand throughout; heavy mica relic structure at approximately 14' bgs; no petroleum odor		B17-4		ND/ND	0.0			
17										
18										
19										
20			20.0							
21		B17-5 (20'-25') Fine- to medium-grained; brown to dark brown; micaceous silty sand mix with minor clay content and mica grains throughout; no petroleum odor		B17-5		ND/ND	0.0			
22										
23										
24										
25			25.0				0.0			

Drill Method: HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B17

Diagram of Monitoring Well: MW17

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
26		B17-6 (25'-30') Fine- to medium-grained; brown to dark brown; micaceous silty sand mix with minor clay content and mica grains throughout; groundwater present at approximately 26' bgs; rock fragments at approximately 29' bgs; no petroleum odor		B17-6		ND/ND	0.0				
27							0.0				
28											
29			30.0								
30		No additional samples taken. B17 converted into MW17 at approximately 40' bgs.									
31											
32											
33											
34											
35											
36											
37											
38											
39											
40			40.0								
41		End of Borehole									
42											
43											
44											
45											
46											
47											
48											
49											
50											

Drill Method: HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 04/29/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B18

Diagram of Monitoring Well: MW18

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
		ASPHALT	0.5							
1		B18-1 (0.5'-4') Fine- to medium-grained; brown with tan and dark brown; micaceous silty fine sand with a minor clay component; no petroleum odor		B18-1		NA/NA	0.0			
2										
3										
4		B18-2 (4'-8') Fine- to medium-grained; brown to orangish brown; silty fine sand with clay component; no petroleum odor	4.0	B18-2		NA/NA	0.0			
5										
6										
7										
8		B18-3 (8'-12') Fine- to medium-grained; brown with dark brown and tan seams; micaceous silty fine sand with larger quartz grains evident; no petroleum odor	8.0	B18-3		ND/ND	0.0			
9										
10										
11										
12		B18-4 (12'-16') Fine- to medium-grained; brown to gray to dark brown; micaceous silty fine sand; no petroleum odor	12.0	B18-4		ND/0.120	1.0			
13										
14										
15										
16		B18-5 (16'-20') Fine- to medium-grained; brown to tan; micaceous silty fine sand with larger mica grains evident; no petroleum odor	16.0	B18-5		ND/ND	0.3			
17										
18										
19										
20		B18-6 (20'-24') Fine- to medium-grained; brown to orangish brown; silty fine sand with clay component; no petroleum odor	20.0	B18-6		ND/ND	0.0			
21										
22										
23										
24			24.0							
25							0.6			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 05/02/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B18

Diagram of Monitoring Well: MW18

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
26		B18-7 (24'-28') Fine- to medium-grained; brown to light brown; micaceous silty fine sand; weathered; saprolite; no petroleum odor		B18-7		ND/ND	0.6				
27			28.0				0.8				
28		B18-8 (28'-32') Fine- to medium-grained; brown to light brown; micaceous silty fine sand; weathered; saprolite; no petroleum odor		B18-8		ND/ND	0.0				
29			32.0								
30											
31			32.0				0.2				
32		B18-9 (32'-34') Fine- to medium-grained; brown to light orangish brown; micaceous silty fine sand with large quartz evident; weathered; slight moisture evident; no petroleum odor		B18-9		ND/ND					
33			34.0								
34		Rod refusal at approximately 34' bgs; converted to hollow-stem augers to install MW18. No additional samples taken. B18 converted to MW18.									
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45		End of Borehole	45.0								
46											
47											
48											
49											
50											

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 05/02/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B19

Diagram of Monitoring Well: MW19

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details
							50	100	150	
0		Ground Surface	0.0							
0.5		ASPHALT	0.5							
1		B19-1 (0.5'-4') Fine- to medium-grained; brown with dark brown seams; slightly micaceous silty fine sand with clay component; no petroleum odor		B19-1		NA/NA	4.4			
2										
3										
4		B19-2 (4'-8') Fine- to medium-grained; brown to light orangish brown; slightly weathered silty fine sand; no petroleum odor	4.0	B19-2		NA/NA	1.3			
5										
6										
7										
8		B19-3 (8'-12') Fine- to medium-grained; brown; very micaceous silty fine sand with larger mica flakes; slight petroleum odor	8.0	B19-3		ND/ND	7.2			
9										
10										
11										
12		B19-4 (12'-16') Fine- to medium-grained; mottled brown to dark brown to light brown; micaceous silty fine sand; saprolite; slight petroleum odor	12.0	B19-4		ND/ND	28.2			
13										
14										
15										
16		B19-5 (16'-20') Fine- to medium-grained; brown to light brown; micaceous silty fine sand with larger rock fragments evident; no petroleum odor	16.0	B19-5		ND/ND	6.3			
17										
18										
19										
20		B19-6 (20'-23') Fine- to medium-grained; brown with light brown; micaceous silty fine sand with weathered material and rock fragments	20.0	B19-6		ND/ND	19.5			
21										
22		Rod refusal at approximately 23' bgs. Switched to hollow-stem augers and continued drilling.								
23			23.0				14.6			

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 05/05/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B19

Diagram of Monitoring Well: MW19

Geologist: ADAM FLORA

Generation Date: 06/24/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM	
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm			Well Completion Details	
							50	100	150		
24		B19-7 (23'-30') Fine- to medium-grained; brown; micaceous silty fine sand; slight petroleum odor					14.6				
25				B19-7		ND/ND	3.2				
26											
27											
28											
29											
30			30.0								
31		No additional samples taken. B19 converted to MW19 at approximately 45' bgs									
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45			45.0								
46		End of Borehole									

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 05/05/2014
 Hole Size: 6.875 INCHES



Project No: FMMD1003

Project: SCRA

Client: T & M, M OF D, L.L.C.

Location: MEADOWS OF DAN FOOD MARKET

Log of Borehole: B01A

Diagram of Monitoring Well: MW01A

Geologist: ADAM FLORA

Generation Date: 06/25/2014

SUBSURFACE PROFILE				SAMPLE			PID READINGS			MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm 50 100 150			Well Completion Details
0		Ground Surface	0.0							<p>Grout</p> <p>Bentonite</p> <p>2" PVC Riser</p> <p>#3 Silica Sand</p> <p>(DTP) - 31.05' - (06/18/14)</p> <p>2" Slotted Screen</p> <p>(DTW) - 33.90' - (06/18/14)</p>
1		Due to the proximity of B01A to MW01(B01) soil samples were not collected.								
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45			45.0							
46		End of Borehole								

Drill Method: DIRECT PUSH/HOLLOW-STEM AUGER
 Drilled by: DAVIDSON DRILLING, INC.
 Drill Date: 05/05/2014
 Hole Size: 6.875 INCHES



APPENDIX D

Laboratory Data

Laboratory Test Results
Chain of Custody Documentation



**Certificate of Analysis:
14040283-001A**

SITE :
SAMPLED BY:
Sample ID: FP01-FMMD319

MATRIX: Free Product
DATE SAMPLED: 03/19/2014
DATE RECIEVED: 04/08/2014

Sample labeled "FP01-FMMD319" SPL, Inc. Certificate of Analyses 14040283-001A was submitted for analysis. The sample was analyzed using a gas chromatograph equipped with a Flame Ionization Detector to determine the general carbon ranges, approximate percentages and match the peak pattern with that of other normal petroleum, fuel or lubrication products. The analyses determined the following:

The sample exhibits the typical composition, odor, and color of gasoline. The specific gravity of 0.7439 also fall within the normal gasoline ranges of (.71 - .77). It has a large proportion of C4 and C5 Olefins, a significant amount of 2,2,4-Trimethylpentane, and a wide range of volatile aromatics (Benzene, Toluene, and Xylenes); all of which are normally found in a gasoline. In addition, the majority of the total mass concentrations of these samples fall in the carbon range of a gasoline (C4-C13).

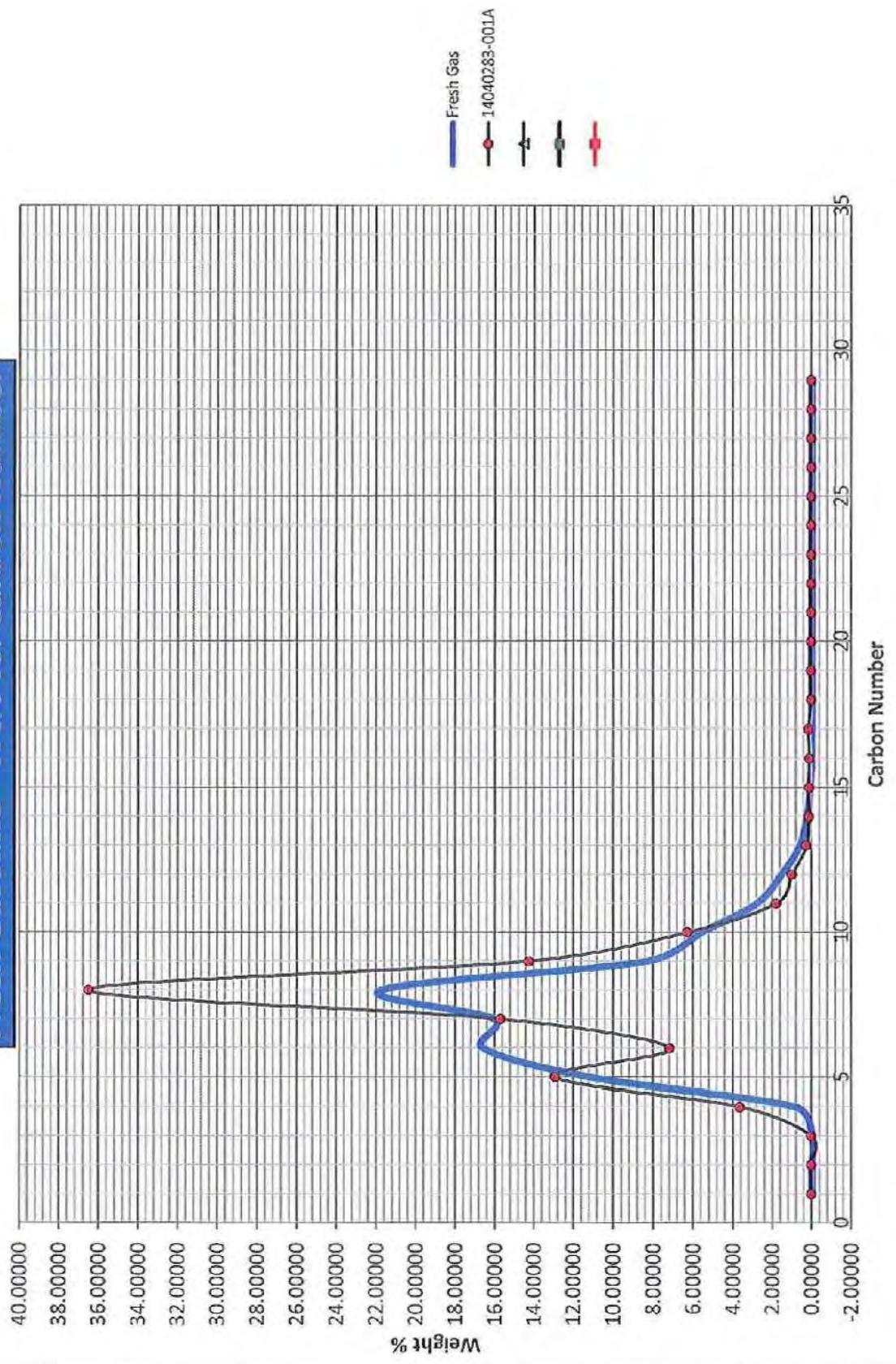
Upon completion of the analysis we have determined that the sample is a Gasoline Range Hydrocarbon.

It has been a pleasure working with you and your company. If SPL, Inc. can be of further assistance in this matter please feel free to contact us.

Sincerely,

Chris Staley
SPL, Inc.
Houston Hydrocarbon Lab Manager
(713) 660-0901 ext. 1188

Fresh Gasoline - Wt% vs. Carbon Number





Certificate of Analysis

HOUSTON LABORATORIES

8820 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Analysis Number: 14040283-001A

Sample ID: FPO1
Project: Meadows of Dan Food Market
P.O. #: FMMD1002

Date of Sample: 03/19/14
Time Sampled: 2:45 PM
Date Sample Analyzed: 05/02/14

Client: Greene Environmental
Address: 200 Buckwheat Lane
Suite / Department:
City: Rocky Mount
Phone: 540-483-3311
Fax: 540-483-3381

Contact(s): Trev Greene
State: VA Zip: 24151
E-Mail: lgreene@greene-environmental.co

Color: Straw
Specific Gravity @ 60° F: 0.7439

Odor: Aromatic
API @ 60° F: 58.71

Carbon Range: C3 - C21

Major Range: C4 - C10

Table with 4 columns: Component, Value, Unit, and another Component. Rows include Paraffin, Isoparaffins, Naphthenics, Aromatics, Olefins, Unknowns, and 2,2,4-Tri Methylpentane.

Table with 4 columns: Component, Value, Unit, and another Component. Rows include N-Hexane, Benzene, Ethyl Benzene, Toluene, Meta-Xylene, Para-Xylene, Ortho-Xylene, and Xylenes.

Table with 4 columns: Component, Value, Unit, and another Component. Rows include Calculated Research Octane, Lead / Manganese, Oxygenates, C17, Pristane, Naphthalene, and 1-Methyl Naphthalene.

Table with 4 columns: Component, Value, Unit, and another Component. Rows include EDB, EDC, Ethanol, C18, Phytane, and 2-Methyl Naphthalene.

Gasoline Range: C4-C13 Indicators: 2,2,4-TMP, Olefins
Diesel Range: C7-C20 Indicators: Pristane, Phytane
Condensate Range: C2-C25+ Indicators: No Olefins, Light & Heavies
Heavy Oil: C20+

Comments: N/A Not Applicable N/D None Detected

Chris Staley (signature)

Chris Staley
Hydrocarbon Laboratory Manager

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 5/2/2014 8:05:02 AM

RawFile: M:\ExtendedGas Results\CDF\14040283-001Adat-Detector 1.cdf

Acquired: 04/08/14 11:34:41

Sample: 14040283-001A JL

Analyzed: 5/2/2014 8:04:32 AM

Processed 366 Peaks

Reference File: H:\DHA Application Software\References\14040283-001A_JL_04112014.DHA

Comments:

Normalized to 100.0000%

Oxygenates

<u>Compound</u>	<u>Mass%</u>	<u>Mass% Oxygen</u>	<u>Vol%</u>
No Oxy Compounds Found	0.00	0.00	0.00

Molecular Weight and Relative Density Data

<u>Group</u>	<u>Avg Mw.</u>	<u>Avg Rel. Density</u>
C1	0.000	0.000
C2	0.000	0.000
C3	44.097	0.500
C4	57.852	0.582
C5	71.794	0.628
C6	85.247	0.677
C7	94.831	0.791
C8	117.444	0.717
C9	121.565	0.836
C10	133.969	0.862
C11	153.683	0.783
C12	159.510	0.843
C13	158.015	0.902
C14	185.660	0.757
C15	199.120	0.785
C16	208.177	0.970
C17	227.816	0.774
C18	254.510	0.777
C19	263.622	0.777
C20	282.560	0.789
C21	291.359	0.791
C22	0.000	0.000
C23	0.000	0.000
C24	0.000	0.000
C25	0.000	0.000
C26	0.000	0.000
C27	0.000	0.000
C28	0.000	0.000

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 5/2/2014 8:05:02 AM

RawFile: M:\ExtendedGas Results\CDF\14040283-001Adat-Detector 1.cdf
Sample: 14040283-001A JL
Processed 366 Peaks
Reference File: H:\DHA Application Software\References\14040283-001A JL_04112014.DHA

Acquired: 04/08/14 11:34:41
Analyzed: 5/2/2014 8:04:32 AM

Comments:

Normalized to 100.0000%

C29	0.000	0.000
Total Sample:	101.00	0.73

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 5/2/2014 8:05:02 AM

RawFile: M:\ExtendedGas Results\CDF\14040283-001Adat-Detector 1.cdf

Acquired: 04/08/14 11:34:41

Sample: 14040283-001A JL

Analyzed: 5/2/2014 8:04:32 AM

Processed 366 Peaks

Reference File: H:\DHA Application Software\References\14040283-001A JL_04112014.DHA

Comments:

Normalized to 100.0000%

Totals by Group Type & Carbon Number (in Mass Percent)

	<u>Paraffins</u>	<u>I-Paraffins</u>	<u>Olefins</u>	<u>Napthenes</u>	<u>Aromatics</u>	<u>Unknowns</u>	<u>Total</u>
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C3	0.01708	0.00000	0.00000	0.00000	0.00000	0.00000	0.01708
C4	3.04936	0.27416	0.32676	0.00000	0.00000	0.00000	3.65028
C5	2.67183	8.05628	1.94789	0.24613	0.00000	0.00000	12.92212
C6	0.66638	4.83789	0.74055	0.63397	0.28839	0.00000	7.16718
C7	0.52357	3.80768	1.38249	0.36393	9.62563	0.00000	15.70329
C8	0.34452	17.30807	0.13861	3.73093	14.97893	0.00000	36.50105
C9	0.14142	1.27432	1.45294	0.25203	11.13193	0.00000	14.25263
C10	0.09182	0.69728	0.00000	0.11516	5.36197	0.00000	6.26623
C11	0.06036	1.27371	0.00000	0.00000	0.46344	0.00000	1.79751
C12	0.03795	0.67966	0.00000	0.00000	0.27339	0.00000	0.99100
C13	0.02246	0.23373	0.00000	0.00000	0.00000	0.00000	0.25618
C14	0.01163	0.10666	0.00000	0.00000	0.00000	0.00000	0.11830
C15	0.01159	0.09041	0.00000	0.00000	0.00000	0.00000	0.10200
C16	0.01362	0.07090	0.00000	0.00000	0.00000	0.00000	0.08452
C17	0.01374	0.11992	0.00000	0.00000	0.00000	0.00000	0.13366
C18	0.00776	0.00000	0.00000	0.00000	0.00000	0.00000	0.00776
C19	0.01086	0.00555	0.00000	0.00000	0.00000	0.00000	0.01641
C20	0.00523	0.00000	0.00000	0.00000	0.00000	0.00000	0.00523
C21	0.00484	0.00274	0.00000	0.00000	0.00000	0.00000	0.00758
C22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	7.70599	38.83897	5.98923	5.34215	42.12368	0.00000	100.00000
Oxygenates	0.00000			Total C30+:	0.00000		
Total Unknowns:	0.00000			Grand Total:	100.00000		

Totals by Group Type & Carbon Number (in Volume Percent)

	<u>Paraffins</u>	<u>I-Paraffins</u>	<u>Olefins</u>	<u>Napthenes</u>	<u>Aromatics</u>	<u>Unknowns</u>	<u>Total</u>
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C3	0.02493	0.00000	0.00000	0.00000	0.00000	0.00000	0.02493
C4	3.84952	0.35952	0.37212	0.00000	0.00000	0.00000	4.58117
C5	3.11762	9.50205	2.17978	0.24127	0.00000	0.00000	15.04071
C6	0.73841	5.36718	0.77376	0.61472	0.23976	0.00000	7.73383
C7	0.55954	4.06471	1.41070	0.35540	8.11217	0.00000	14.50252
C8	0.35834	18.01122	0.14012	3.54553	15.12179	0.00000	37.17700

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 5/2/2014 8:05:02 AM

RawFile: M:\ExtendedGas Results\CDF\14040283-001Adat-Detector 1.cdf

Acquired: 04/08/14 11:34:41

Sample: 14040283-001A JL

Analyzed: 5/2/2014 8:04:32 AM

Processed 366 Peaks

Reference File: H:\DHA Application Software\References\14040283-001A_JL_04112014.DHA

Normalized to 100.0000%

Comments:

C9	0.14399	1.26792	1.47613	0.23613	9.32750	0.00000	12.45166
C10	0.09190	0.68546	0.00000	0.10502	4.42710	0.00000	5.30947
C11	0.05927	1.25645	0.00000	0.00000	0.36274	0.00000	1.67846
C12	0.03683	0.59778	0.00000	0.00000	0.22447	0.00000	0.85908
C13	0.02168	0.18594	0.00000	0.00000	0.00000	0.00000	0.20763
C14	0.01114	0.10304	0.00000	0.00000	0.00000	0.00000	0.11418
C15	0.00831	0.08660	0.00000	0.00000	0.00000	0.00000	0.09491
C16	0.01286	0.05079	0.00000	0.00000	0.00000	0.00000	0.06366
C17	0.01290	0.11331	0.00000	0.00000	0.00000	0.00000	0.12621
C18	0.00730	0.00000	0.00000	0.00000	0.00000	0.00000	0.00730
C19	0.01021	0.00522	0.00000	0.00000	0.00000	0.00000	0.01543
C20	0.00484	0.00000	0.00000	0.00000	0.00000	0.00000	0.00484
C21	0.00446	0.00254	0.00000	0.00000	0.00000	0.00000	0.00700
C22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	9.07408	41.65973	6.35261	5.09805	37.81552	0.00000	100.00000

Oxygenates 0.00000

Total C30+: 0.00000

Total Unknowns: 0.00000

Grand Total: 100.00000

Detailed Hydrocarbon Analysis Detail Report -

Report Date: 5/2/2014 8:05:02 AM

RawFile: M:\ExtendedGas Results\CDF\14040283-001Adat-Detector 1.cdf

Acquired: 04/08/14 11:34:41

Sample: 14040283-001A JL

Analyzed: 5/2/2014 8:04:32 AM

Processed 366 Peaks

Reference File: H:\DHA Application Software\References\14040283-001A_JL_04112014.DHA

Comments:

Normalized to 100.0000%

Totals by Group Type & Carbon Number (in Mol Percent)

	<u>Paraffins</u>	<u>I-Paraffins</u>	<u>Olefins</u>	<u>Napthenes</u>	<u>Aromatics</u>	<u>Unknowns</u>	<u>Total</u>
C1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C3	0.03913	0.00000	0.00000	0.00000	0.00000	0.00000	0.03913
C4	5.30056	0.47657	0.59784	0.00000	0.00000	0.00000	6.37498
C5	3.74141	11.28135	2.80762	0.35456	0.00000	0.00000	18.18494
C6	0.78125	5.68630	0.89283	0.76106	0.37301	0.00000	8.49446
C7	0.52790	3.85834	1.41538	0.37448	10.55445	0.00000	16.73055
C8	0.30472	15.31656	0.12480	3.35916	12.29586	0.00000	31.40109
C9	0.11140	1.01229	1.16284	0.20170	9.35735	0.00000	11.84558
C10	0.06520	0.49769	0.00000	0.08295	4.07993	0.00000	4.72576
C11	0.03901	0.82328	0.00000	0.00000	0.31943	0.00000	1.18172
C12	0.02251	0.43498	0.00000	0.00000	0.17022	0.00000	0.62770
C13	0.01230	0.15150	0.00000	0.00000	0.00000	0.00000	0.16380
C14	0.00593	0.05845	0.00000	0.00000	0.00000	0.00000	0.06438
C15	0.00571	0.04604	0.00000	0.00000	0.00000	0.00000	0.05176
C16	0.00607	0.03494	0.00000	0.00000	0.00000	0.00000	0.04102
C17	0.00577	0.05351	0.00000	0.00000	0.00000	0.00000	0.05928
C18	0.00308	0.00000	0.00000	0.00000	0.00000	0.00000	0.00308
C19	0.00409	0.00220	0.00000	0.00000	0.00000	0.00000	0.00629
C20	0.00187	0.00000	0.00000	0.00000	0.00000	0.00000	0.00187
C21	0.00165	0.00098	0.00000	0.00000	0.00000	0.00000	0.00263
C22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
C29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total:	10.97956	39.73496	7.00131	5.13392	37.15025	0.00000	100.00000

Oxygenates 0.00000

Total C30+: 0.00000

Total Unknowns: 0.00000

Grand Total: 100.00000

Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	SPL Laboratories, Inc.	REQUESTED BY:	Mr. Chris Staley
SAMPLE ID:	FP01-FMMD319	REPORT DATE:	April 16, 2014
LABORATORY NO:	74234-01	PURCHASE ORDER NO:	SPLO9776A

TEST

RESULT

Determination of Oxygenates and MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and C1 to C4 Alcohols in Gasoline by GC/MS, ASTM D 4815 (Modified) :

<u>Compound</u>	<u>Amount Found</u> <u>wt%</u>	<u>Report Limit</u> <u>wt%</u>
Methanol	ND	0.01
Ethanol	ND	0.01
Isopropanol (2-Propanol)	ND	0.01
tert-Butanol	ND	0.01
n-Propanol (1-Propanol)	ND	0.01
Methyl tert-butyl ether (MTBE)	0.02	0.01
sec-Butanol	ND	0.01
Diisopropyl ether (DIPE)	ND	0.01
Isobutanol	ND	0.01
Ethyl tert-butyl ether (ETBE)	ND	0.01
tert-Amyl Alcohol	ND	0.01
n-Butanol	ND	0.01
Methyl tert-amyl ether (TAME)	ND	0.01

Respectfully submitted,
FOR TEXAS OILTECH LABORATORIES, L.P.

A. Phil Sorurbakhsh
Director of Laboratory Operations

Cert. No. 0005085

Quality Management System Certified to ISO 9001:2008

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SPL, Inc.
Analysis Request Chain of Custody Record

SPL			SPL Work Order No.:		Acct. Mate Code:		Dept. Code:		Page	Pages	
			1	1							
Report To: (Company Name):			Project/Station Name:		Project/Station Number:		Project/Station Location:				
Address:			Meadows of Den Food Market		FMMD1002		Virginia				
City/State/Zip:			Special Instructions:							Requested TAT 10 business days	
Rocky Mount VA 24151											
Contact:		Trev Greene	tgreene@greene-environmental.com	Indicate Billing Type: (Place "X", where appropriate)		Net 30-day Acct.	Check #	Requested Analysis (Place an "X" next to Sample ID below)			
Phone:		540-483-3311	Fax: 540-483-3381	Credit Card		<<<Contact SPL, Inc for CC payment arrangements					
Invoice To: (Company Name):			Greene Environmental		200 Buckwheat Lane		Terms: Cylinders will be rented for \$10/cyl. All cylinders checked out are to be returned within 21 days, whether they contain sample or not. Cylinders not returned after 30 days will be considered lost and will be billed at current replacement cost.			Surcharges May Apply (See quote for details)	
Address:											
City/State/Zip:			Rocky Mount VA 24151		Contact:		Trev Greene	tgreene@greene-environmental.com	Comments		
Phone:			540-483-3311	Fax: 540-483-3381							
Client PO# or Ref. No.:			N/A		Contract/Proposal #:		SPLQ6048 (i.e. SPLQ####)				
Contract/Proposal #:											
Sample ID (used to log/track sample)	Sample Date	Sample Time	Sample Type (Gas/Liq./Solid)	Duplicate	Composite	Spot	Cylinder Tracking Info			GPA-2186-02M(PIANO) AS RIN	
							Cylinder #	Date Out	Date In		
FP01	03/19/14	0:00	Liquid				x			Please run as discussed	
Sampled By-Print Name:			Trev Greene		Received By-Company:						
Signature:					Received By-Print Name:		Derylo Pj.	Date:	04/04/14	Time:	15:00
Relinquished By-Print Name:			Trev Greene		Date:		04/03/14	Time:		00:00	
Signature:					Received By-Print Name:			Date:		Time:	
Relinquished By-Print Name:					Date:			Time:			
Signature:					Received By-Print Name:			Date:		Time:	
Relinquished By-Print Name:					Date:			Time:			
Signature:					Received By-Print Name:			Date:		Time:	
Choose SPL Facility>>>			Corporate HQ - Houston, TX		Ship to Address:		8820 Interchange Dr., Houston, TX 77054		Phone:		713.660.0901
SPL			SPL Work Order No.:		Acct. Mate Code:		Dept. Code:		Page	Pages	
			1	1							

Note - As a convenience to our clients, this form is available in an electronic format. Please contact one of our offices above for the form to be e-mailed to you.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-52099-1
TestAmerica Sample Delivery Group: FMMD1003
Client Project/Site: Meadows of Dan Food Market

For:
Greene Environmental Services LLC
200 Buckwheat Lane
Rocky Mount, Virginia 24151

Attn: Arthur T. Greene III



Authorized for release by:
5/15/2014 11:21:54 AM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
SDG: FMMD1003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-52099-1	B07-1	Soil	04/28/14 10:55	05/01/14 08:30
490-52099-2	B07-2	Soil	04/28/14 11:00	05/01/14 08:30
490-52099-3	B07-3	Soil	04/28/14 11:05	05/01/14 08:30
490-52099-4	B07-4	Soil	04/28/14 11:08	05/01/14 08:30
490-52099-5	B07-5	Soil	04/28/14 11:11	05/01/14 08:30
490-52099-6	B07-6	Soil	04/28/14 11:20	05/01/14 08:30
490-52099-7	B07-7	Soil	04/28/14 11:25	05/01/14 08:30
490-52099-8	B07-8	Soil	04/28/14 11:32	05/01/14 08:30
490-52099-9	B07-9	Soil	04/28/14 12:58	05/01/14 08:30
490-52099-10	B08-7	Soil	04/28/14 14:43	05/01/14 08:30
490-52099-11	B09-7	Soil	04/28/14 15:24	05/01/14 08:30
490-52099-12	B09-8	Soil	04/28/14 15:29	05/01/14 08:30
490-52099-13	B10-6	Soil	04/28/14 16:07	05/01/14 08:30
490-52099-14	B10-7	Soil	04/28/14 16:10	05/01/14 08:30
490-52099-15	B11-6	Soil	04/28/14 16:39	05/01/14 08:30
490-52099-16	B12-3	Soil	04/29/14 09:47	05/01/14 08:30
490-52099-17	B12-4	Soil	04/29/14 09:52	05/01/14 08:30
490-52099-18	B12-5	Soil	04/29/14 09:56	05/01/14 08:30
490-52099-19	B12-6	Soil	04/29/14 10:01	05/01/14 08:30
490-52099-20	B13-7	Soil	04/29/14 10:52	05/01/14 08:30
490-52099-21	B13-8	Soil	04/29/14 10:58	05/01/14 08:30
490-52099-22	B14-2	Soil	04/29/14 11:27	05/01/14 08:30
490-52099-23	B14-3	Soil	04/29/14 11:32	05/01/14 08:30
490-52099-24	B14-4	Soil	04/29/14 11:35	05/01/14 08:30
490-52099-25	B14-5	Soil	04/29/14 11:39	05/01/14 08:30
490-52099-26	B14-6	Soil	04/29/14 11:43	05/01/14 08:30
490-52099-27	B14-7	Soil	04/29/14 11:46	05/01/14 08:30
490-52099-28	B14-8	Soil	04/29/14 11:52	05/01/14 08:30
490-52099-29	B15-1	Soil	04/29/14 11:55	05/01/14 08:30
490-52099-30	B15-2	Soil	04/29/14 12:00	05/01/14 08:30
490-52099-31	B15-3	Soil	04/29/14 12:04	05/01/14 08:30
490-52099-32	B15-4	Soil	04/29/14 12:08	05/01/14 08:30
490-52099-33	B15-5	Soil	04/29/14 12:11	05/01/14 08:30
490-52099-34	B15-6	Soil	04/29/14 12:15	05/01/14 08:30
490-52099-35	B15-7	Soil	04/29/14 12:20	05/01/14 08:30
490-52099-36	B16-6	Soil	04/29/14 13:26	05/01/14 08:30
490-52099-37	B16-7	Soil	04/29/14 13:31	05/01/14 08:30
490-52099-38	B17-4	Soil	04/29/14 15:20	05/01/14 08:30
490-52099-39	B17-5	Soil	04/29/14 15:29	05/01/14 08:30
490-52099-40	B17-6	Soil	04/29/14 15:37	05/01/14 08:30

Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
SDG: FMMD1003

Job ID: 490-52099-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-52099-1

Comments

No additional comments.

Receipt

The samples were received on 5/1/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC VOA

Method(s) 8015B: Surrogate recoveries for the laboratory control sample (LCS) and laboratory control sample (LCSD) associated with Batches 160125 and 160251 were outside control limits. Individual TPH Range GRO recoveries, however, meet method requirements for data integrity; and LCS/LCSD chromatography patterns for Surrogate match that established for ICV during most recent ICAL event. Therefore, samples associated with this LCS/LCSD were not affected.

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 160125, 160251, 160572, 160813 and 161394.

Method(s) 8015B: Surrogate recovery for the laboratory control sample (LCS) associated with Batch 160572 was outside control limits. Individual TPH Range GRO recoveries, however, meet method requirements for data integrity; therefore, samples associated with this LCS were not affected.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: (LCS 490-161394/6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 160127, 160812, 161396 and 161736.

Method(s) 8021B: The continuing calibration verification (CCV) associated with batch 160252 recovered above the upper control limit for ALL analytes except MTBE. The reported samples associated with this CCV were non-detects for the affected analytes. The following samples are impacted: (CCV 490-160252/2), B15-3 (490-52099-31), B16-6 (490-52099-36).

Method(s) 8021B: The continuing calibration verification (CCV) associated with batch 160573 recovered above the upper control limit for all analytes. The reported samples associated with this CCV were non-detects for the affected analytes. The following samples are impacted: (CCV 490-160573/2), B07-1 (490-52099-1), B17-4 (490-52099-38), B17-6 (490-52099-40).

Method(s) 8021B: Surrogate recovery for the following sample(s) was outside control limits: B15-7 (490-52099-35). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8021B: The continuing calibration verification (CCV) for analytical batch 161396 exceeded control criteria for Naphthalene. The average concentration recovery for all target analytes, however, is less than a 15% difference from target concentrations; therefore, samples were not affected.

Method(s) 8021B: The methanol method blank for batch 161396 contained Naphthalene and Toluene above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10x the value found in the method blank.

Method(s) 8021B: The continuing calibration verifications (CCV) associated with batch 161736 recovered above the upper control limits for both MTBE and Naphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 161782. Laboratory control sample was performed in duplicate to provide precision data.

Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
SDG: FMMD1003

Job ID: 490-52099-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: The surrogate recovery for the laboratory control sample (LCS) associated with batch 160083 was outside the upper control limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

Method(s) 8015B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample(s): (490-52192-1 MS), (490-52192-1 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
SDG: FMMD1003

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-1
Date Collected: 04/28/14 10:55
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-1
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0973	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150			05/02/14 07:07	05/07/14 04:37	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000973	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Ethylbenzene	ND		0.000973	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Methyl tert-butyl ether	ND		0.00973	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Naphthalene	ND		0.00486	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Toluene	ND		0.000973	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Xylenes, Total	ND		0.00292	mg/Kg		05/02/14 07:07	05/07/14 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		50 - 150			05/02/14 07:07	05/07/14 04:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/02/14 12:59	05/03/14 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	64		50 - 150			05/02/14 12:59	05/03/14 18:52	1

Client Sample ID: B07-2
Date Collected: 04/28/14 11:00
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-2
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0859	mg/Kg		05/02/14 07:07	05/07/14 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150			05/02/14 07:07	05/07/14 05:08	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000894	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Ethylbenzene	ND		0.000894	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Methyl tert-butyl ether	ND		0.00894	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Naphthalene	ND		0.00447	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Toluene	ND		0.000894	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Xylenes, Total	ND		0.00268	mg/Kg		05/08/14 09:07	05/09/14 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	116		50 - 150			05/08/14 09:07	05/09/14 15:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	mg/Kg		05/02/14 12:59	05/03/14 19:45	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-2

Date Collected: 04/28/14 11:00

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-2

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	78		50 - 150	05/02/14 12:59	05/03/14 19:45	1

Client Sample ID: B07-3

Date Collected: 04/28/14 11:05

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-3

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0969	mg/Kg		05/02/14 07:07	05/07/14 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	78		50 - 150	05/02/14 07:07	05/07/14 05:39	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000975	mg/Kg		05/08/14 09:07	05/09/14 16:30	1
Ethylbenzene	ND		0.000975	mg/Kg		05/08/14 09:07	05/09/14 16:30	1
Methyl tert-butyl ether	0.0298		0.00975	mg/Kg		05/08/14 09:07	05/09/14 16:30	1
Naphthalene	ND		0.00487	mg/Kg		05/08/14 09:07	05/09/14 16:30	1
Toluene	ND		0.000975	mg/Kg		05/08/14 09:07	05/09/14 16:30	1
Xylenes, Total	ND		0.00292	mg/Kg		05/08/14 09:07	05/09/14 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	114		50 - 150	05/08/14 09:07	05/09/14 16:30	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.92	mg/Kg		05/02/14 12:59	05/03/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	65		50 - 150	05/02/14 12:59	05/03/14 20:03	1

Client Sample ID: B07-4

Date Collected: 04/28/14 11:08

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-4

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0984	mg/Kg		05/02/14 07:07	05/07/14 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	77		50 - 150	05/02/14 07:07	05/07/14 06:10	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000909	mg/Kg		05/08/14 09:07	05/09/14 17:01	1
Ethylbenzene	ND		0.000909	mg/Kg		05/08/14 09:07	05/09/14 17:01	1
Methyl tert-butyl ether	0.0233		0.00909	mg/Kg		05/08/14 09:07	05/09/14 17:01	1
Naphthalene	ND		0.00455	mg/Kg		05/08/14 09:07	05/09/14 17:01	1
Toluene	0.00134		0.000909	mg/Kg		05/08/14 09:07	05/09/14 17:01	1
Xylenes, Total	ND		0.00273	mg/Kg		05/08/14 09:07	05/09/14 17:01	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-4
Date Collected: 04/28/14 11:08
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-4
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	123		50 - 150	05/08/14 09:07	05/09/14 17:01	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.88	mg/Kg		05/02/14 12:59	05/03/14 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	67		50 - 150	05/02/14 12:59	05/03/14 20:21	1

Client Sample ID: B07-5
Date Collected: 04/28/14 11:11
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-5
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0923	mg/Kg		05/02/14 07:07	05/07/14 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	74		50 - 150	05/02/14 07:07	05/07/14 06:41	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000992	mg/Kg		05/08/14 09:07	05/09/14 17:32	1
Ethylbenzene	ND		0.000992	mg/Kg		05/08/14 09:07	05/09/14 17:32	1
Methyl tert-butyl ether	ND		0.00992	mg/Kg		05/08/14 09:07	05/09/14 17:32	1
Naphthalene	ND		0.00496	mg/Kg		05/08/14 09:07	05/09/14 17:32	1
Toluene	ND		0.000992	mg/Kg		05/08/14 09:07	05/09/14 17:32	1
Xylenes, Total	ND		0.00298	mg/Kg		05/08/14 09:07	05/09/14 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		50 - 150	05/08/14 09:07	05/09/14 17:32	1

Client Sample ID: B07-6
Date Collected: 04/28/14 11:20
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-6
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.105		0.0943	mg/Kg		05/02/14 07:07	05/07/14 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	79		50 - 150	05/02/14 07:07	05/07/14 16:51	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000943	mg/Kg		05/02/14 07:07	05/07/14 16:51	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-6

Lab Sample ID: 490-52099-6

Date Collected: 04/28/14 11:20

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000943	mg/Kg		05/02/14 07:07	05/07/14 16:51	1
Methyl tert-butyl ether	0.126		0.00943	mg/Kg		05/02/14 07:07	05/07/14 16:51	1
Naphthalene	ND		0.00472	mg/Kg		05/02/14 07:07	05/07/14 16:51	1
Toluene	0.00114		0.000943	mg/Kg		05/02/14 07:07	05/07/14 16:51	1
Xylenes, Total	ND		0.00283	mg/Kg		05/02/14 07:07	05/07/14 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150	05/02/14 07:07	05/07/14 16:51	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/02/14 12:59	05/03/14 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	05/02/14 12:59	05/03/14 20:56	1

Client Sample ID: B07-7

Lab Sample ID: 490-52099-7

Date Collected: 04/28/14 11:25

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.220		0.0935	mg/Kg		05/02/14 07:07	05/07/14 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150	05/02/14 07:07	05/07/14 17:22	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000935	mg/Kg		05/02/14 07:07	05/07/14 17:22	1
Ethylbenzene	0.000978		0.000935	mg/Kg		05/02/14 07:07	05/07/14 17:22	1
Methyl tert-butyl ether	0.161		0.00935	mg/Kg		05/02/14 07:07	05/07/14 17:22	1
Naphthalene	ND		0.00467	mg/Kg		05/02/14 07:07	05/07/14 17:22	1
Toluene	0.00556		0.000935	mg/Kg		05/02/14 07:07	05/07/14 17:22	1
Xylenes, Total	0.00705		0.00280	mg/Kg		05/02/14 07:07	05/07/14 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	114		50 - 150	05/02/14 07:07	05/07/14 17:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30.7		4.92	mg/Kg		05/05/14 12:46	05/05/14 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150	05/05/14 12:46	05/05/14 22:31	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-8
Date Collected: 04/28/14 11:32
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-8
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	6.14		0.0893	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150			05/02/14 07:07	05/07/14 17:54	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00173		0.000893	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Ethylbenzene	0.0592		0.000893	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Methyl tert-butyl ether	0.156		0.00893	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Naphthalene	0.262		0.236	mg/Kg		05/02/14 07:05	05/12/14 12:22	1
Toluene	0.0586		0.000893	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Xylenes, Total	0.590		0.00268	mg/Kg		05/02/14 07:07	05/07/14 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150			05/02/14 07:07	05/07/14 17:54	1
a,a,a-Trifluorotoluene	93		50 - 150			05/02/14 07:05	05/12/14 12:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/02/14 12:59	05/03/14 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150			05/02/14 12:59	05/03/14 21:32	1

Client Sample ID: B07-9
Date Collected: 04/28/14 12:58
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-9
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.252		0.100	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150			05/02/14 07:07	05/07/14 18:25	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Ethylbenzene	0.00130		0.00100	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Methyl tert-butyl ether	ND		0.0100	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Naphthalene	0.132		0.00500	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Toluene	0.00245		0.00100	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Xylenes, Total	0.0150		0.00300	mg/Kg		05/02/14 07:07	05/07/14 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150			05/02/14 07:07	05/07/14 18:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.98	mg/Kg		05/05/14 12:46	05/05/14 22:13	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B07-9
Date Collected: 04/28/14 12:58
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-9
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	62		50 - 150	05/05/14 12:46	05/05/14 22:13	1

Client Sample ID: B08-7
Date Collected: 04/28/14 14:43
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-10
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0975	mg/Kg		05/02/14 07:07	05/07/14 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	81		50 - 150	05/02/14 07:07	05/07/14 18:56	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000975	mg/Kg		05/02/14 07:07	05/07/14 18:56	1
Ethylbenzene	ND		0.000975	mg/Kg		05/02/14 07:07	05/07/14 18:56	1
Methyl tert-butyl ether	ND		0.00975	mg/Kg		05/02/14 07:07	05/07/14 18:56	1
Naphthalene	ND		0.00485	mg/Kg		05/02/14 07:07	05/09/14 15:28	1
Toluene	ND		0.000975	mg/Kg		05/02/14 07:07	05/07/14 18:56	1
Xylenes, Total	ND		0.00292	mg/Kg		05/02/14 07:07	05/07/14 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	108		50 - 150	05/02/14 07:07	05/07/14 18:56	1
<i>a, a, a</i> -Trifluorotoluene	115		50 - 150	05/02/14 07:07	05/09/14 15:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.98	mg/Kg		05/02/14 12:59	05/03/14 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	116		50 - 150	05/02/14 12:59	05/03/14 22:08	1

Client Sample ID: B09-7
Date Collected: 04/28/14 15:24
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-11
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0907	mg/Kg		05/02/14 07:07	05/07/14 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	78		50 - 150	05/02/14 07:07	05/07/14 19:27	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000907	mg/Kg		05/02/14 07:07	05/07/14 19:27	1
Ethylbenzene	ND		0.000907	mg/Kg		05/02/14 07:07	05/07/14 19:27	1
Methyl tert-butyl ether	ND		0.00907	mg/Kg		05/02/14 07:07	05/07/14 19:27	1
Naphthalene	ND		0.00454	mg/Kg		05/02/14 07:07	05/07/14 19:27	1
Toluene	ND		0.000907	mg/Kg		05/02/14 07:07	05/07/14 19:27	1
Xylenes, Total	ND		0.00272	mg/Kg		05/02/14 07:07	05/07/14 19:27	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B09-7
Date Collected: 04/28/14 15:24
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-11
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		50 - 150	05/02/14 07:07	05/07/14 19:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.99	mg/Kg		05/02/14 12:59	05/03/14 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		50 - 150	05/02/14 12:59	05/03/14 23:01	1

Client Sample ID: B09-8
Date Collected: 04/28/14 15:29
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-12
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0926	mg/Kg		05/02/14 07:07	05/07/14 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150	05/02/14 07:07	05/07/14 19:58	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000926	mg/Kg		05/02/14 07:07	05/07/14 19:58	1
Ethylbenzene	ND		0.000926	mg/Kg		05/02/14 07:07	05/07/14 19:58	1
Methyl tert-butyl ether	ND		0.00926	mg/Kg		05/02/14 07:07	05/07/14 19:58	1
Naphthalene	ND		0.00463	mg/Kg		05/02/14 07:07	05/07/14 19:58	1
Toluene	ND		0.000926	mg/Kg		05/02/14 07:07	05/07/14 19:58	1
Xylenes, Total	ND		0.00278	mg/Kg		05/02/14 07:07	05/07/14 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150	05/02/14 07:07	05/07/14 19:58	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.99	mg/Kg		05/02/14 12:59	05/03/14 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	55		50 - 150	05/02/14 12:59	05/03/14 23:18	1

Client Sample ID: B10-6
Date Collected: 04/28/14 16:07
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-13
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0978	mg/Kg		05/02/14 07:07	05/07/14 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150	05/02/14 07:07	05/07/14 20:29	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000978	mg/Kg		05/02/14 07:07	05/07/14 20:29	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B10-6

Lab Sample ID: 490-52099-13

Date Collected: 04/28/14 16:07

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000978	mg/Kg		05/02/14 07:07	05/07/14 20:29	1
Methyl tert-butyl ether	0.0101		0.00978	mg/Kg		05/02/14 07:07	05/07/14 20:29	1
Naphthalene	ND		0.00489	mg/Kg		05/02/14 07:07	05/07/14 20:29	1
Toluene	ND		0.000978	mg/Kg		05/02/14 07:07	05/07/14 20:29	1
Xylenes, Total	ND		0.00294	mg/Kg		05/02/14 07:07	05/07/14 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		50 - 150	05/02/14 07:07	05/07/14 20:29	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	mg/Kg		05/02/14 12:59	05/03/14 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	51		50 - 150	05/02/14 12:59	05/03/14 23:36	1

Client Sample ID: B10-7

Lab Sample ID: 490-52099-14

Date Collected: 04/28/14 16:10

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0990	mg/Kg		05/02/14 07:07	05/07/14 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150	05/02/14 07:07	05/07/14 21:00	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000990	mg/Kg		05/02/14 07:07	05/07/14 21:00	1
Ethylbenzene	ND		0.000990	mg/Kg		05/02/14 07:07	05/07/14 21:00	1
Methyl tert-butyl ether	0.0333		0.00990	mg/Kg		05/02/14 07:07	05/07/14 21:00	1
Naphthalene	ND		0.00495	mg/Kg		05/02/14 07:07	05/07/14 21:00	1
Toluene	0.00102		0.000990	mg/Kg		05/02/14 07:07	05/07/14 21:00	1
Xylenes, Total	ND		0.00297	mg/Kg		05/02/14 07:07	05/07/14 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150	05/02/14 07:07	05/07/14 21:00	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/02/14 12:59	05/03/14 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150	05/02/14 12:59	05/03/14 23:54	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B11-6

Lab Sample ID: 490-52099-15

Date Collected: 04/28/14 16:39

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0988	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150			05/02/14 07:07	05/07/14 21:31	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000988	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Ethylbenzene	ND		0.000988	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Methyl tert-butyl ether	ND		0.00988	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Naphthalene	ND		0.00494	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Toluene	ND		0.000988	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Xylenes, Total	ND		0.00296	mg/Kg		05/02/14 07:07	05/07/14 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150			05/02/14 07:07	05/07/14 21:31	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.99	mg/Kg		05/02/14 12:59	05/04/14 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	62		50 - 150			05/02/14 12:59	05/04/14 00:12	1

Client Sample ID: B12-3

Lab Sample ID: 490-52099-16

Date Collected: 04/29/14 09:47

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0912	mg/Kg		05/02/14 07:07	05/09/14 21:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		50 - 150			05/02/14 07:07	05/09/14 21:41	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000988	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Ethylbenzene	0.00216		0.000988	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Methyl tert-butyl ether	ND		0.00988	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Naphthalene	ND		0.00499	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Toluene	0.0106		0.000988	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Xylenes, Total	0.0101		0.00299	mg/Kg		05/02/14 07:07	05/12/14 11:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		50 - 150			05/02/14 07:07	05/12/14 11:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.63		4.98	mg/Kg		05/02/14 12:59	05/04/14 00:29	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B12-3

Date Collected: 04/29/14 09:47

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-16

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	65		50 - 150	05/02/14 12:59	05/04/14 00:29	1

Client Sample ID: B12-4

Date Collected: 04/29/14 09:52

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-17

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0926	mg/Kg		05/02/14 07:07	05/09/14 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	102		50 - 150	05/02/14 07:07	05/09/14 22:12	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00144		0.000967	mg/Kg		05/02/14 07:07	05/12/14 12:18	1
Ethylbenzene	0.00141		0.000967	mg/Kg		05/02/14 07:07	05/12/14 12:18	1
Methyl tert-butyl ether	ND		0.00967	mg/Kg		05/02/14 07:07	05/12/14 12:18	1
Naphthalene	ND		0.00484	mg/Kg		05/02/14 07:07	05/12/14 12:18	1
Toluene	0.0116		0.000967	mg/Kg		05/02/14 07:07	05/12/14 12:18	1
Xylenes, Total	0.00504		0.00290	mg/Kg		05/02/14 07:07	05/12/14 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	112		50 - 150	05/02/14 07:07	05/12/14 12:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11.6		5.00	mg/Kg		05/02/14 12:59	05/04/14 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	63		50 - 150	05/02/14 12:59	05/04/14 00:47	1

Client Sample ID: B12-5

Date Collected: 04/29/14 09:56

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-18

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0938	mg/Kg		05/02/14 07:07	05/09/14 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	105		50 - 150	05/02/14 07:07	05/09/14 22:43	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000938	mg/Kg		05/02/14 07:07	05/12/14 12:49	1
Ethylbenzene	ND		0.000938	mg/Kg		05/02/14 07:07	05/12/14 12:49	1
Methyl tert-butyl ether	ND		0.00938	mg/Kg		05/02/14 07:07	05/12/14 12:49	1
Naphthalene	ND		0.00469	mg/Kg		05/02/14 07:07	05/12/14 12:49	1
Toluene	ND		0.000938	mg/Kg		05/02/14 07:07	05/12/14 12:49	1
Xylenes, Total	ND		0.00281	mg/Kg		05/02/14 07:07	05/12/14 12:49	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B12-5

Lab Sample ID: 490-52099-18

Date Collected: 04/29/14 09:56

Matrix: Soil

Date Received: 05/01/14 08:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150	05/02/14 07:07	05/12/14 12:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	mg/Kg	-	05/02/14 12:59	05/04/14 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	62		50 - 150	05/02/14 12:59	05/04/14 01:05	1

Client Sample ID: B12-6

Lab Sample ID: 490-52099-19

Date Collected: 04/29/14 10:01

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0868	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150	05/02/14 07:07	05/09/14 23:14	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000868	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1
Ethylbenzene	ND		0.000868	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1
Methyl tert-butyl ether	ND		0.00868	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1
Naphthalene	ND		0.00434	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1
Toluene	0.00204		0.000868	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1
Xylenes, Total	0.00263		0.00260	mg/Kg	-	05/02/14 07:07	05/09/14 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	118		50 - 150	05/02/14 07:07	05/09/14 23:14	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.98	mg/Kg	-	05/02/14 12:59	05/04/14 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		50 - 150	05/02/14 12:59	05/04/14 01:23	1

Client Sample ID: B13-7

Lab Sample ID: 490-52099-20

Date Collected: 04/29/14 10:52

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0926	mg/Kg	-	05/02/14 07:07	05/09/14 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150	05/02/14 07:07	05/09/14 18:34	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000926	mg/Kg	-	05/02/14 07:07	05/09/14 18:34	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B13-7

Lab Sample ID: 490-52099-20

Date Collected: 04/29/14 10:52

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000926	mg/Kg		05/02/14 07:07	05/09/14 18:34	1
Methyl tert-butyl ether	ND		0.00926	mg/Kg		05/02/14 07:07	05/09/14 18:34	1
Naphthalene	ND		0.00463	mg/Kg		05/02/14 07:07	05/09/14 18:34	1
Toluene	0.000943		0.000926	mg/Kg		05/02/14 07:07	05/09/14 18:34	1
Xylenes, Total	ND		0.00278	mg/Kg		05/02/14 07:07	05/09/14 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		50 - 150	05/02/14 07:07	05/09/14 18:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	mg/Kg		05/02/14 12:59	05/04/14 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	68		50 - 150	05/02/14 12:59	05/04/14 01:40	1

Client Sample ID: B13-8

Lab Sample ID: 490-52099-21

Date Collected: 04/29/14 10:58

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0963	mg/Kg		05/02/14 08:43	05/05/14 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	81		50 - 150	05/02/14 08:43	05/05/14 21:01	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000963	mg/Kg		05/02/14 08:43	05/05/14 21:01	1
Ethylbenzene	ND		0.000963	mg/Kg		05/02/14 08:43	05/05/14 21:01	1
Methyl tert-butyl ether	ND		0.00963	mg/Kg		05/02/14 08:43	05/05/14 21:01	1
Naphthalene	0.00586		0.00482	mg/Kg		05/02/14 08:43	05/05/14 21:01	1
Toluene	ND		0.000963	mg/Kg		05/02/14 08:43	05/05/14 21:01	1
Xylenes, Total	ND		0.00289	mg/Kg		05/02/14 08:43	05/05/14 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150	05/02/14 08:43	05/05/14 21:01	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.99	mg/Kg		05/05/14 14:31	05/06/14 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	05/05/14 14:31	05/06/14 16:01	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B14-2

Lab Sample ID: 490-52099-22

Date Collected: 04/29/14 11:27

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0998	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	81		50 - 150			05/02/14 08:43	05/05/14 21:32	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000998	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Ethylbenzene	ND		0.000998	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Methyl tert-butyl ether	ND		0.00998	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Naphthalene	ND		0.00499	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Toluene	0.00144		0.000998	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Xylenes, Total	ND		0.00299	mg/Kg		05/02/14 08:43	05/05/14 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150			05/02/14 08:43	05/05/14 21:32	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.92	mg/Kg		05/05/14 14:31	05/06/14 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	63		50 - 150			05/05/14 14:31	05/06/14 16:54	1

Client Sample ID: B14-3

Lab Sample ID: 490-52099-23

Date Collected: 04/29/14 11:32

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0952	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150			05/02/14 08:43	05/05/14 22:03	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000952	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Ethylbenzene	ND		0.000952	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Methyl tert-butyl ether	ND		0.00952	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Naphthalene	ND		0.00476	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Toluene	0.00147		0.000952	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Xylenes, Total	ND		0.00286	mg/Kg		05/02/14 08:43	05/05/14 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		50 - 150			05/02/14 08:43	05/05/14 22:03	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	mg/Kg		05/05/14 14:31	05/06/14 17:12	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B14-3
 Date Collected: 04/29/14 11:32
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-23
 Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	73		50 - 150	05/05/14 14:31	05/06/14 17:12	1

Client Sample ID: B14-4
 Date Collected: 04/29/14 11:35
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-24
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0980	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	79		50 - 150	05/02/14 08:43	05/05/14 22:34	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000980	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1
Ethylbenzene	ND		0.000980	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1
Methyl tert-butyl ether	ND		0.00980	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1
Naphthalene	ND		0.00490	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1
Toluene	ND		0.000980	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1
Xylenes, Total	ND		0.00294	mg/Kg	-	05/02/14 08:43	05/05/14 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	106		50 - 150	05/02/14 08:43	05/05/14 22:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	mg/Kg	-	05/05/14 14:31	05/06/14 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	68		50 - 150	05/05/14 14:31	05/06/14 17:29	1

Client Sample ID: B14-5
 Date Collected: 04/29/14 11:39
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-25
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0994	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	81		50 - 150	05/02/14 08:43	05/05/14 23:05	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000994	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1
Ethylbenzene	ND		0.000994	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1
Methyl tert-butyl ether	ND		0.00994	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1
Naphthalene	ND		0.00497	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1
Toluene	0.00516		0.000994	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1
Xylenes, Total	0.00298		0.00298	mg/Kg	-	05/02/14 08:43	05/05/14 23:05	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B14-5

Date Collected: 04/29/14 11:39

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-25

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150	05/02/14 08:43	05/05/14 23:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.94	mg/Kg		05/05/14 14:31	05/06/14 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	05/05/14 14:31	05/06/14 17:47	1

Client Sample ID: B14-6

Date Collected: 04/29/14 11:43

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-26

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0967	mg/Kg		05/02/14 08:43	05/06/14 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150	05/02/14 08:43	05/06/14 01:41	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000971	mg/Kg		05/02/14 08:43	05/06/14 17:13	1
Ethylbenzene	ND		0.000971	mg/Kg		05/02/14 08:43	05/06/14 17:13	1
Methyl tert-butyl ether	ND		0.00971	mg/Kg		05/02/14 08:43	05/06/14 17:13	1
Naphthalene	ND		0.00485	mg/Kg		05/02/14 08:43	05/06/14 17:13	1
Toluene	ND		0.000971	mg/Kg		05/02/14 08:43	05/06/14 17:13	1
Xylenes, Total	ND		0.00291	mg/Kg		05/02/14 08:43	05/06/14 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		50 - 150	05/02/14 08:43	05/06/14 17:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	mg/Kg		05/05/14 14:31	05/06/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	64		50 - 150	05/05/14 14:31	05/06/14 18:05	1

Client Sample ID: B14-7

Date Collected: 04/29/14 11:46

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-27

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0890	mg/Kg		05/02/14 08:43	05/06/14 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150	05/02/14 08:43	05/06/14 02:12	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000962	mg/Kg		05/02/14 08:43	05/06/14 17:44	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B14-7

Lab Sample ID: 490-52099-27

Date Collected: 04/29/14 11:46

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000962	mg/Kg		05/02/14 08:43	05/06/14 17:44	1
Methyl tert-butyl ether	ND		0.00962	mg/Kg		05/02/14 08:43	05/06/14 17:44	1
Naphthalene	ND		0.00481	mg/Kg		05/02/14 08:43	05/06/14 17:44	1
Toluene	ND		0.000962	mg/Kg		05/02/14 08:43	05/06/14 17:44	1
Xylenes, Total	ND		0.00288	mg/Kg		05/02/14 08:43	05/06/14 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150	05/02/14 08:43	05/06/14 17:44	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	mg/Kg		05/05/14 14:31	05/06/14 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		50 - 150	05/05/14 14:31	05/06/14 18:23	1

Client Sample ID: B14-8

Lab Sample ID: 490-52099-28

Date Collected: 04/29/14 11:52

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0901	mg/Kg		05/02/14 08:43	05/06/14 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	79		50 - 150	05/02/14 08:43	05/06/14 02:44	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000899	mg/Kg		05/02/14 08:43	05/06/14 18:15	1
Ethylbenzene	ND		0.000899	mg/Kg		05/02/14 08:43	05/06/14 18:15	1
Methyl tert-butyl ether	ND		0.00899	mg/Kg		05/02/14 08:43	05/06/14 18:15	1
Naphthalene	ND		0.00450	mg/Kg		05/02/14 08:43	05/06/14 18:15	1
Toluene	0.00162		0.000899	mg/Kg		05/02/14 08:43	05/06/14 18:15	1
Xylenes, Total	ND		0.00270	mg/Kg		05/02/14 08:43	05/06/14 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150	05/02/14 08:43	05/06/14 18:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.33		4.95	mg/Kg		05/05/14 14:31	05/06/14 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	58		50 - 150	05/05/14 14:31	05/06/14 18:40	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B15-1

Lab Sample ID: 490-52099-29

Date Collected: 04/29/14 11:55

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0940	mg/Kg		05/02/14 08:43	05/06/14 03:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150			05/02/14 08:43	05/06/14 03:15	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000938	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Ethylbenzene	0.00115		0.000938	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Methyl tert-butyl ether	ND		0.00938	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Naphthalene	ND		0.00469	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Toluene	0.00639		0.000938	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Xylenes, Total	0.00490		0.00281	mg/Kg		05/02/14 08:43	05/06/14 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150			05/02/14 08:43	05/06/14 18:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	40.8		4.96	mg/Kg		05/05/14 14:31	05/06/14 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150			05/05/14 14:31	05/06/14 22:30	1

Client Sample ID: B15-2

Lab Sample ID: 490-52099-30

Date Collected: 04/29/14 12:00

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0965	mg/Kg		05/02/14 08:43	05/06/14 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150			05/02/14 08:43	05/06/14 03:46	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000971	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Ethylbenzene	0.00136		0.000971	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Methyl tert-butyl ether	ND		0.00971	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Naphthalene	ND		0.00485	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Toluene	0.00537		0.000971	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Xylenes, Total	0.00651		0.00291	mg/Kg		05/02/14 08:43	05/06/14 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150			05/02/14 08:43	05/06/14 19:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.45		5.00	mg/Kg		05/05/14 14:31	05/06/14 22:48	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B15-2

Date Collected: 04/29/14 12:00

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-30

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	52		50 - 150	05/05/14 14:31	05/06/14 22:48	1

Client Sample ID: B15-3

Date Collected: 04/29/14 12:04

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-31

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0945	mg/Kg		05/02/14 08:43	05/06/14 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	78		50 - 150	05/02/14 08:43	05/06/14 04:17	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000945	mg/Kg		05/02/14 08:43	05/06/14 04:17	1
Ethylbenzene	ND		0.000945	mg/Kg		05/02/14 08:43	05/06/14 04:17	1
Methyl tert-butyl ether	ND		0.00945	mg/Kg		05/02/14 08:43	05/06/14 04:17	1
Naphthalene	ND		0.00473	mg/Kg		05/02/14 08:43	05/06/14 04:17	1
Toluene	ND		0.000945	mg/Kg		05/02/14 08:43	05/06/14 04:17	1
Xylenes, Total	ND		0.00284	mg/Kg		05/02/14 08:43	05/06/14 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	106		50 - 150	05/02/14 08:43	05/06/14 04:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.94	mg/Kg		05/05/14 14:31	05/06/14 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	59		50 - 150	05/05/14 14:31	05/06/14 18:58	1

Client Sample ID: B15-4

Date Collected: 04/29/14 12:08

Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-32

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0984	mg/Kg		05/02/14 08:43	05/06/14 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	79		50 - 150	05/02/14 08:43	05/06/14 04:48	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000890	mg/Kg		05/02/14 08:43	05/06/14 20:19	1
Ethylbenzene	ND		0.000890	mg/Kg		05/02/14 08:43	05/06/14 20:19	1
Methyl tert-butyl ether	ND		0.00890	mg/Kg		05/02/14 08:43	05/06/14 20:19	1
Naphthalene	ND		0.00445	mg/Kg		05/02/14 08:43	05/06/14 20:19	1
Toluene	ND		0.000890	mg/Kg		05/02/14 08:43	05/06/14 20:19	1
Xylenes, Total	ND		0.00267	mg/Kg		05/02/14 08:43	05/06/14 20:19	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B15-4
Date Collected: 04/29/14 12:08
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-32
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		50 - 150	05/02/14 08:43	05/06/14 20:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/09/14 08:07	05/10/14 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150	05/09/14 08:07	05/10/14 14:36	1

Client Sample ID: B15-5
Date Collected: 04/29/14 12:11
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-33
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0836	mg/Kg		05/02/14 08:43	05/06/14 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150	05/02/14 08:43	05/06/14 05:20	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000911	mg/Kg		05/08/14 09:07	05/09/14 23:45	1
Ethylbenzene	ND		0.000911	mg/Kg		05/08/14 09:07	05/09/14 23:45	1
Methyl tert-butyl ether	ND		0.00911	mg/Kg		05/08/14 09:07	05/09/14 23:45	1
Naphthalene	ND		0.00455	mg/Kg		05/08/14 09:07	05/09/14 23:45	1
Toluene	ND		0.000911	mg/Kg		05/08/14 09:07	05/09/14 23:45	1
Xylenes, Total	ND		0.00273	mg/Kg		05/08/14 09:07	05/09/14 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	109		50 - 150	05/08/14 09:07	05/09/14 23:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	mg/Kg		05/05/14 14:31	05/06/14 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	69		50 - 150	05/05/14 14:31	05/06/14 19:33	1

Client Sample ID: B15-6
Date Collected: 04/29/14 12:15
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-34
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0853	mg/Kg		05/02/14 08:43	05/06/14 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150	05/02/14 08:43	05/06/14 05:51	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000951	mg/Kg		05/08/14 09:07	05/10/14 00:16	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B15-6

Lab Sample ID: 490-52099-34

Date Collected: 04/29/14 12:15

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000951	mg/Kg		05/08/14 09:07	05/10/14 00:16	1
Methyl tert-butyl ether	ND		0.00951	mg/Kg		05/08/14 09:07	05/10/14 00:16	1
Naphthalene	ND		0.00475	mg/Kg		05/08/14 09:07	05/10/14 00:16	1
Toluene	ND		0.000951	mg/Kg		05/08/14 09:07	05/10/14 00:16	1
Xylenes, Total	ND		0.00285	mg/Kg		05/08/14 09:07	05/10/14 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	111		50 - 150	05/08/14 09:07	05/10/14 00:16	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	mg/Kg		05/05/14 14:31	05/06/14 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	53		50 - 150	05/05/14 14:31	05/06/14 19:51	1

Client Sample ID: B15-7

Lab Sample ID: 490-52099-35

Date Collected: 04/29/14 12:20

Matrix: Soil

Date Received: 05/01/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	415		4.48	mg/Kg		05/02/14 08:41	05/09/14 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	129		50 - 150	05/02/14 08:41	05/09/14 19:05	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.132		0.000933	mg/Kg		05/02/14 08:43	05/09/14 19:36	1
Ethylbenzene	11.1		0.0448	mg/Kg		05/02/14 08:41	05/09/14 19:05	1
Methyl tert-butyl ether	0.0443		0.00933	mg/Kg		05/02/14 08:43	05/09/14 19:36	1
Naphthalene	10.2		2.24	mg/Kg		05/02/14 08:41	05/12/14 23:51	10
Toluene	13.1		0.0448	mg/Kg		05/02/14 08:41	05/09/14 19:05	1
Xylenes, Total	57.8		0.134	mg/Kg		05/02/14 08:41	05/09/14 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150	05/02/14 08:41	05/09/14 19:05	1
a,a,a-Trifluorotoluene	227	X	50 - 150	05/02/14 08:43	05/09/14 19:36	1
a,a,a-Trifluorotoluene	88		50 - 150	05/02/14 08:41	05/12/14 23:51	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	48.3		4.97	mg/Kg		05/05/14 14:31	05/06/14 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	75		50 - 150	05/05/14 14:31	05/06/14 20:09	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B16-6
Date Collected: 04/29/14 13:26
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-36
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0874	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150			05/02/14 08:43	05/06/14 06:22	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000874	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Ethylbenzene	ND		0.000874	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Methyl tert-butyl ether	ND		0.00874	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Naphthalene	ND		0.00437	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Toluene	ND		0.000874	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Xylenes, Total	ND		0.00262	mg/Kg		05/02/14 08:43	05/06/14 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150			05/02/14 08:43	05/06/14 06:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93	mg/Kg		05/05/14 14:31	05/07/14 10:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	55		50 - 150			05/05/14 14:31	05/07/14 10:42	1

Client Sample ID: B16-7
Date Collected: 04/29/14 13:31
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-37
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0916	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150			05/02/14 08:43	05/06/14 19:48	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000916	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Ethylbenzene	ND		0.000916	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Methyl tert-butyl ether	ND		0.00916	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Naphthalene	ND		0.00458	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Toluene	ND		0.000916	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Xylenes, Total	ND		0.00275	mg/Kg		05/02/14 08:43	05/06/14 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150			05/02/14 08:43	05/06/14 19:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.87	mg/Kg		05/05/14 14:31	05/06/14 21:19	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B16-7
 Date Collected: 04/29/14 13:31
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-37
 Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	62		50 - 150	05/05/14 14:31	05/06/14 21:19	1

Client Sample ID: B17-4
 Date Collected: 04/29/14 15:20
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-38
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0903	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	78		50 - 150	05/02/14 08:43	05/07/14 04:06	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000903	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1
Ethylbenzene	ND		0.000903	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1
Methyl tert-butyl ether	ND		0.00903	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1
Naphthalene	ND		0.00451	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1
Toluene	ND		0.000903	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1
Xylenes, Total	ND		0.00271	mg/Kg	-	05/02/14 08:43	05/07/14 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	104		50 - 150	05/02/14 08:43	05/07/14 04:06	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.92	mg/Kg	-	05/05/14 14:31	05/06/14 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	61		50 - 150	05/05/14 14:31	05/06/14 21:37	1

Client Sample ID: B17-5
 Date Collected: 04/29/14 15:29
 Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-39
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0893	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	79		50 - 150	05/02/14 08:43	05/06/14 20:50	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000893	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1
Ethylbenzene	ND		0.000893	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1
Methyl tert-butyl ether	ND		0.00893	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1
Naphthalene	ND		0.00446	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1
Toluene	ND		0.000893	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1
Xylenes, Total	ND		0.00268	mg/Kg	-	05/02/14 08:43	05/06/14 20:50	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52099-1
 SDG: FMMD1003

Client Sample ID: B17-5
Date Collected: 04/29/14 15:29
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-39
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		50 - 150	05/02/14 08:43	05/06/14 20:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.89	mg/Kg		05/05/14 14:31	05/06/14 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	05/05/14 14:31	05/06/14 21:55	1

Client Sample ID: B17-6
Date Collected: 04/29/14 15:37
Date Received: 05/01/14 08:30

Lab Sample ID: 490-52099-40
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		0.0835	mg/Kg		05/02/14 08:43	05/07/14 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150	05/02/14 08:43	05/07/14 02:32	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000835	mg/Kg		05/02/14 08:43	05/07/14 02:32	1
Ethylbenzene	ND		0.000835	mg/Kg		05/02/14 08:43	05/07/14 02:32	1
Methyl tert-butyl ether	ND		0.00835	mg/Kg		05/02/14 08:43	05/07/14 02:32	1
Naphthalene	ND		0.00417	mg/Kg		05/02/14 08:43	05/07/14 02:32	1
Toluene	ND		0.000835	mg/Kg		05/02/14 08:43	05/07/14 02:32	1
Xylenes, Total	ND		0.00250	mg/Kg		05/02/14 08:43	05/07/14 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		50 - 150	05/02/14 08:43	05/07/14 02:32	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.87	mg/Kg		05/05/14 14:31	05/06/14 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		50 - 150	05/05/14 14:31	05/06/14 22:12	1

COOLER RECEIPT FORM



490-52099 Chain of Custody

Cooler Received/Opened On 5/1/2014 @ 0830

1. Tracking # 7937 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 2.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Login Sample Receipt Checklist

Client: Greene Environmental Services LLC

Job Number: 490-52099-1

SDG Number: FMMD1003

Login Number: 52099

List Number: 1

Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

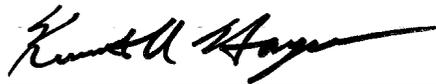
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-52518-1
TestAmerica Sample Delivery Group: FMMD1003
Client Project/Site: Meadows of Dan Food Market

For:
Greene Environmental Services LLC
200 Buckwheat Lane
Rocky Mount, Virginia 24151

Attn: Arthur T. Greene III



Authorized for release by:
5/21/2014 4:34:05 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
SDG: FMMD1003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-52518-1	B12-7	Soil	05/05/14 10:05	05/07/14 08:15
490-52518-2	B18-3	Soil	05/02/14 09:33	05/07/14 08:15
490-52518-3	B18-4	Soil	05/02/14 09:37	05/07/14 08:15
490-52518-4	B18-5	Soil	05/02/14 09:42	05/07/14 08:15
490-52518-5	B18-6	Soil	05/02/14 09:48	05/07/14 08:15
490-52518-6	B18-7	Soil	05/02/14 09:54	05/07/14 08:15
490-52518-7	B18-8	Soil	05/02/14 10:03	05/07/14 08:15
490-52518-8	B19-3	Soil	05/05/14 12:18	05/07/14 08:15
490-52518-9	B19-4	Soil	05/05/14 12:23	05/07/14 08:15
490-52518-10	B19-5	Soil	05/05/14 12:28	05/07/14 08:15
490-52518-11	B19-6	Soil	05/05/14 12:35	05/07/14 08:15
490-52518-12	B19-7	Soil	05/02/14 13:10	05/07/14 08:15

Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
SDG: FMMD1003

Job ID: 490-52518-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-52518-1

Comments

No additional comments.

Receipt

The samples were received on 5/7/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC VOA

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: (LCS 490-161394/6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 161394, 162677 and 161995

Method(s) 8021B: The continuing calibration verification (CCV) for analytical batch 161396 exceeded control criteria for Naphthalene. The average concentration recovery for all target analytes, however, is less than a 15% difference from target concentrations; therefore, samples were not affected.

Method(s) 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 161396 and 161994.

Method(s) 8021B: Surrogate recovery for the following sample(s) was outside control limits: B12-7 (490-52518-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 162680.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The following sample(s) would require dilution due to the abundance of target analytes: (490-52480-1 MS), (490-52480-1 MSD). As such, surrogate and spike recoveries do not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
SDG: FMMD1003

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B12-7
Date Collected: 05/05/14 10:05
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-1
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1110		92.8	mg/Kg		05/08/14 10:46	05/15/14 12:44	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150			05/08/14 10:46	05/15/14 12:44	20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.124		0.000883	mg/Kg		05/08/14 10:47	05/13/14 18:21	1
Ethylbenzene	35.4		0.928	mg/Kg		05/08/14 10:46	05/15/14 12:44	20
Methyl tert-butyl ether	0.0571		0.00883	mg/Kg		05/08/14 10:47	05/13/14 18:21	1
Naphthalene	16.1		4.64	mg/Kg		05/08/14 10:46	05/15/14 12:44	20
Toluene	43.2		0.928	mg/Kg		05/08/14 10:46	05/15/14 12:44	20
Xylenes, Total	211		2.78	mg/Kg		05/08/14 10:46	05/15/14 12:44	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	241	X	50 - 150			05/08/14 10:47	05/13/14 18:21	1
a,a,a-Trifluorotoluene	104		50 - 150			05/08/14 10:46	05/15/14 12:44	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	75.1		4.98	mg/Kg		05/09/14 09:46	05/10/14 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	64		50 - 150			05/09/14 09:46	05/10/14 20:29	1

Client Sample ID: B18-3

Date Collected: 05/02/14 09:33
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-2
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0962	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150			05/08/14 10:47	05/10/14 00:48	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000962	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Ethylbenzene	ND		0.000962	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Methyl tert-butyl ether	ND		0.00962	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Naphthalene	ND		0.00481	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Toluene	ND		0.000962	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Xylenes, Total	ND		0.00288	mg/Kg		05/08/14 10:47	05/10/14 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		50 - 150			05/08/14 10:47	05/10/14 00:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	mg/Kg		05/09/14 09:46	05/11/14 15:46	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B18-3

Date Collected: 05/02/14 09:33

Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-2

Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	71		50 - 150	05/09/14 09:46	05/11/14 15:46	1

Client Sample ID: B18-4

Date Collected: 05/02/14 09:37

Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-3

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.120		0.0978	mg/Kg		05/08/14 10:47	05/10/14 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	104		50 - 150	05/08/14 10:47	05/10/14 01:19	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000978	mg/Kg		05/08/14 10:47	05/10/14 01:19	1
Ethylbenzene	ND		0.000978	mg/Kg		05/08/14 10:47	05/10/14 01:19	1
Methyl tert-butyl ether	ND		0.00978	mg/Kg		05/08/14 10:47	05/10/14 01:19	1
Naphthalene	ND		0.00489	mg/Kg		05/08/14 10:47	05/10/14 01:19	1
Toluene	ND		0.000978	mg/Kg		05/08/14 10:47	05/10/14 01:19	1
Xylenes, Total	ND		0.00294	mg/Kg		05/08/14 10:47	05/10/14 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	110		50 - 150	05/08/14 10:47	05/10/14 01:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.00	mg/Kg		05/09/14 09:46	05/10/14 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	76		50 - 150	05/09/14 09:46	05/10/14 21:04	1

Client Sample ID: B18-5

Date Collected: 05/02/14 09:42

Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-4

Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0836	mg/Kg		05/08/14 10:47	05/10/14 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	131		50 - 150	05/08/14 10:47	05/10/14 01:50	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000836	mg/Kg		05/08/14 10:47	05/10/14 01:50	1
Ethylbenzene	ND		0.000836	mg/Kg		05/08/14 10:47	05/10/14 01:50	1
Methyl tert-butyl ether	ND		0.00836	mg/Kg		05/08/14 10:47	05/10/14 01:50	1
Naphthalene	ND		0.00418	mg/Kg		05/08/14 10:47	05/10/14 01:50	1
Toluene	ND		0.000836	mg/Kg		05/08/14 10:47	05/10/14 01:50	1
Xylenes, Total	ND		0.00251	mg/Kg		05/08/14 10:47	05/10/14 01:50	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B18-5
Date Collected: 05/02/14 09:42
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-4
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	135		50 - 150	05/08/14 10:47	05/10/14 01:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/09/14 09:46	05/10/14 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 150	05/09/14 09:46	05/10/14 21:21	1

Client Sample ID: B18-6
Date Collected: 05/02/14 09:48
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-5
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0914	mg/Kg		05/08/14 10:47	05/10/14 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	120		50 - 150	05/08/14 10:47	05/10/14 02:21	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000914	mg/Kg		05/08/14 10:47	05/10/14 02:21	1
Ethylbenzene	ND		0.000914	mg/Kg		05/08/14 10:47	05/10/14 02:21	1
Methyl tert-butyl ether	ND		0.00914	mg/Kg		05/08/14 10:47	05/10/14 02:21	1
Naphthalene	ND		0.00457	mg/Kg		05/08/14 10:47	05/10/14 02:21	1
Toluene	ND		0.000914	mg/Kg		05/08/14 10:47	05/10/14 02:21	1
Xylenes, Total	ND		0.00274	mg/Kg		05/08/14 10:47	05/10/14 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	127		50 - 150	05/08/14 10:47	05/10/14 02:21	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.90	mg/Kg		05/09/14 09:46	05/10/14 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	54		50 - 150	05/09/14 09:46	05/10/14 21:39	1

Client Sample ID: B18-7
Date Collected: 05/02/14 09:54
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-6
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0923	mg/Kg		05/08/14 10:47	05/13/14 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150	05/08/14 10:47	05/13/14 14:13	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000923	mg/Kg		05/08/14 10:47	05/13/14 14:13	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B18-7

Lab Sample ID: 490-52518-6

Date Collected: 05/02/14 09:54

Matrix: Soil

Date Received: 05/07/14 08:15

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.000923	mg/Kg		05/08/14 10:47	05/13/14 14:13	1
Methyl tert-butyl ether	ND		0.00923	mg/Kg		05/08/14 10:47	05/13/14 14:13	1
Naphthalene	ND		0.00461	mg/Kg		05/08/14 10:47	05/13/14 14:13	1
Toluene	ND		0.000923	mg/Kg		05/08/14 10:47	05/13/14 14:13	1
Xylenes, Total	ND		0.00277	mg/Kg		05/08/14 10:47	05/13/14 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150	05/08/14 10:47	05/13/14 14:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.91	mg/Kg		05/09/14 09:46	05/10/14 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	62		50 - 150	05/09/14 09:46	05/10/14 21:57	1

Client Sample ID: B18-8

Lab Sample ID: 490-52518-7

Date Collected: 05/02/14 10:03

Matrix: Soil

Date Received: 05/07/14 08:15

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0984	mg/Kg		05/08/14 10:47	05/13/14 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150	05/08/14 10:47	05/13/14 14:44	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000984	mg/Kg		05/08/14 10:47	05/13/14 14:44	1
Ethylbenzene	ND		0.000984	mg/Kg		05/08/14 10:47	05/13/14 14:44	1
Methyl tert-butyl ether	ND		0.00984	mg/Kg		05/08/14 10:47	05/13/14 14:44	1
Naphthalene	ND		0.00492	mg/Kg		05/08/14 10:47	05/13/14 14:44	1
Toluene	ND		0.000984	mg/Kg		05/08/14 10:47	05/13/14 14:44	1
Xylenes, Total	ND		0.00295	mg/Kg		05/08/14 10:47	05/13/14 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		50 - 150	05/08/14 10:47	05/13/14 14:44	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.89	mg/Kg		05/09/14 09:46	05/10/14 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		50 - 150	05/09/14 09:46	05/10/14 22:14	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B19-3

Lab Sample ID: 490-52518-8

Date Collected: 05/05/14 12:18

Matrix: Soil

Date Received: 05/07/14 08:15

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0888	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	55		50 - 150			05/08/14 10:47	05/13/14 15:15	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00888	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Ethylbenzene	ND		0.00888	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Methyl tert-butyl ether	ND		0.00888	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Naphthalene	ND		0.00444	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Toluene	ND		0.00888	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Xylenes, Total	ND		0.00266	mg/Kg		05/08/14 10:47	05/13/14 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	59		50 - 150			05/08/14 10:47	05/13/14 15:15	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.95	mg/Kg		05/09/14 09:46	05/10/14 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	69		50 - 150			05/09/14 09:46	05/10/14 22:32	1

Client Sample ID: B19-4

Lab Sample ID: 490-52518-9

Date Collected: 05/05/14 12:23

Matrix: Soil

Date Received: 05/07/14 08:15

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0954	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150			05/08/14 10:47	05/13/14 15:46	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00954	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Ethylbenzene	ND		0.00954	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Methyl tert-butyl ether	ND		0.00954	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Naphthalene	ND		0.00477	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Toluene	ND		0.00954	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Xylenes, Total	ND		0.00286	mg/Kg		05/08/14 10:47	05/13/14 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150			05/08/14 10:47	05/13/14 15:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.97	mg/Kg		05/09/14 09:46	05/10/14 22:49	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B19-4
 Date Collected: 05/05/14 12:23
 Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-9
 Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	59		50 - 150	05/09/14 09:46	05/10/14 22:49	1

Client Sample ID: B19-5
 Date Collected: 05/05/14 12:28
 Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-10
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0861	mg/Kg		05/08/14 10:47	05/13/14 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	96		50 - 150	05/08/14 10:47	05/13/14 16:17	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000861	mg/Kg		05/08/14 10:47	05/13/14 16:17	1
Ethylbenzene	ND		0.000861	mg/Kg		05/08/14 10:47	05/13/14 16:17	1
Methyl tert-butyl ether	ND		0.00861	mg/Kg		05/08/14 10:47	05/13/14 16:17	1
Naphthalene	ND		0.00430	mg/Kg		05/08/14 10:47	05/13/14 16:17	1
Toluene	ND		0.000861	mg/Kg		05/08/14 10:47	05/13/14 16:17	1
Xylenes, Total	ND		0.00258	mg/Kg		05/08/14 10:47	05/13/14 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	103		50 - 150	05/08/14 10:47	05/13/14 16:17	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.96	mg/Kg		05/09/14 09:46	05/10/14 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	68		50 - 150	05/09/14 09:46	05/10/14 23:07	1

Client Sample ID: B19-6
 Date Collected: 05/05/14 12:35
 Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-11
 Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0921	mg/Kg		05/08/14 10:47	05/13/14 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	96		50 - 150	05/08/14 10:47	05/13/14 16:48	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000921	mg/Kg		05/08/14 10:47	05/13/14 16:48	1
Ethylbenzene	ND		0.000921	mg/Kg		05/08/14 10:47	05/13/14 16:48	1
Methyl tert-butyl ether	ND		0.00921	mg/Kg		05/08/14 10:47	05/13/14 16:48	1
Naphthalene	ND		0.00460	mg/Kg		05/08/14 10:47	05/13/14 16:48	1
Toluene	0.00139		0.000921	mg/Kg		05/08/14 10:47	05/13/14 16:48	1
Xylenes, Total	ND		0.00276	mg/Kg		05/08/14 10:47	05/13/14 16:48	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-52518-1
 SDG: FMMD1003

Client Sample ID: B19-6
Date Collected: 05/05/14 12:35
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-11
Matrix: Soil

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		50 - 150	05/08/14 10:47	05/13/14 16:48	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.99	mg/Kg	-	05/09/14 09:46	05/11/14 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	77		50 - 150	05/09/14 09:46	05/11/14 00:00	1

Client Sample ID: B19-7
Date Collected: 05/02/14 13:10
Date Received: 05/07/14 08:15

Lab Sample ID: 490-52518-12
Matrix: Soil

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.0917	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150	05/08/14 10:47	05/13/14 17:19	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.000917	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1
Ethylbenzene	ND		0.000917	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1
Methyl tert-butyl ether	ND		0.00917	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1
Naphthalene	ND		0.00459	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1
Toluene	ND		0.000917	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1
Xylenes, Total	ND		0.00275	mg/Kg	-	05/08/14 10:47	05/13/14 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		50 - 150	05/08/14 10:47	05/13/14 17:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.91	mg/Kg	-	05/09/14 09:46	05/11/14 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	75		50 - 150	05/09/14 09:46	05/11/14 00:17	1

COOLER RECEIPT FORM



490-52518 Chain of Custody

Cooler Received/Opened On 5/7/2014@ 0815

1. Tracking # 6189 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 1.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front + Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) mjm

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) mjm

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) mjm

I certify that I attached a label with the unique LIMS number to each container (initial) mjm

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Login Sample Receipt Checklist

Client: Greene Environmental Services LLC

Job Number: 490-52518-1

SDG Number: FMMD1003

Login Number: 52518

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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THE LEADER IN ENVIRONMENTAL TESTING

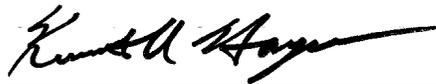
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-53317-1
TestAmerica Sample Delivery Group: FMMD1003
Client Project/Site: Meadows of Dan Food Market

For:
Greene Environmental Services LLC
200 Buckwheat Lane
Rocky Mount, Virginia 24151

Attn: Arthur T. Greene III



Authorized for release by:
5/29/2014 9:26:57 AM

Ken Hayes, Project Manager II
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-53317-1	MW01A	Ground Water	05/14/14 09:05	05/16/14 08:30
490-53317-2	MW02	Ground Water	05/14/14 09:35	05/16/14 08:30
490-53317-3	MW03	Ground Water	05/14/14 09:48	05/16/14 08:30
490-53317-4	MW07	Ground Water	05/14/14 10:35	05/16/14 08:30
490-53317-5	MW12	Ground Water	05/14/14 10:25	05/16/14 08:30
490-53317-6	MW14	Ground Water	05/14/14 10:02	05/16/14 08:30
490-53317-7	MW15	Ground Water	05/14/14 10:50	05/16/14 08:30
490-53317-8	MW19	Ground Water	05/14/14 11:18	05/16/14 08:30
490-53317-9	MW04	Ground Water	05/14/14 11:08	05/16/14 08:30
490-53317-10	MW05	Ground Water	05/14/14 10:39	05/16/14 08:30
490-53317-11	MW06	Ground Water	05/14/14 09:45	05/16/14 08:30
490-53317-12	MW08	Ground Water	05/14/14 14:32	05/16/14 08:30
490-53317-13	MW09	Ground Water	05/14/14 14:02	05/16/14 08:30
490-53317-14	MW10	Ground Water	05/14/14 13:38	05/16/14 08:30
490-53317-15	MW11	Ground Water	05/14/14 13:10	05/16/14 08:30
490-53317-16	MW13	Ground Water	05/14/14 10:20	05/16/14 08:30
490-53317-17	MW16	Ground Water	05/14/14 15:05	05/16/14 08:30
490-53317-18	MW17	Ground Water	05/14/14 12:47	05/16/14 08:30
490-53317-19	MW18	Ground Water	05/14/14 11:37	05/16/14 08:30
490-53317-20	DW01	Ground Water	05/14/14 13:37	05/16/14 08:30
490-53317-21	DW07	Ground Water	05/14/14 15:30	05/16/14 08:30
490-53317-22	DW13	Ground Water	05/14/14 14:40	05/16/14 08:30
490-53317-23	DW14	Ground Water	05/14/14 14:45	05/16/14 08:30
490-53317-24	DW17	Ground Water	05/14/14 14:15	05/16/14 08:30

Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Job ID: 490-53317-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-53317-1

Comments

No additional comments.

Receipt

The samples were received on 5/16/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.1° C, 1.1° C and 2.2° C.

Except:

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): DW17 (490-53317-24)

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 164245 recovered outside control limits for 1,2-Dibromo-3-Chloropropane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. (LCS 490-164245/3), (LCSD 490-164245/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 163630.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 163832 and 164100.

Method(s) 8015B: Surrogate recovery for the laboratory control sample / laboratory control sample duplicate (LCS/LCSD) associated with Batch 164100 was outside control limits. Individual TPH GRO Range recoveries meet method requirements for recovery limits. Surrogates for associated samples were within recovery limits. Data not affected. (LCS 490-164100/5), (LCSD 490-164100/27)

Method(s) 8021B: The continuing calibration verification (CCV) for analytical batch 163833 exceeded control criteria for MTBE and Naphthalene, and is likely associated with successive samples that far exceeded the ICAL upper limits for those analytes. The average concentration recovery for all target analytes, however, is less than a 15% difference from target concentrations; therefore, samples were not affected. (CCV 490-163833/17)

Method(s) 8021B: The continuing calibration verification (CCV) associated with batch 163833 recovered above the upper control limit for MTBE. The reported samples associated with this CCV were non-detects for the affected analytes.

Method(s) 8021B: The sample was outside the ICAL upper limits for Naphthalene. This analyte was not detected in the lowest possible dilution. The sample has been qualified and reported with good QC supporting it on either end of the run. MW02 (490-53317-2)

Method(s) 8021B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batches 164101 and 164151.

Method(s) 8021B: The sample was outside the ICAL upper limits for MTBE. Due to insufficient volume the sample was not reanalyzed at a dilution. The sample has been qualified and reported with good QC supporting it on either end of the run. MW04 (490-53317-9) Please note that the reported dilution did not pass QC requirements for MTBE.

Method(s) 8021B: Other vials used for making dilutions were too dilute to capture this sample within ICAL limits; therefore, sample 490-53317-3 has been reported for Naphthalene from this elevated run, with appropriate qualifiers. MW03 (490-53317-3)

Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Job ID: 490-53317-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Method(s) 8021B: The method blank for preparation batch 163833 contained Toluene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batches 163922 and 164312.

Method(s) 8015B: The following sample(s) was diluted due to the nature of the sample matrix: MW01A (490-53317-1), MW02 (490-53317-2), MW03 (490-53317-3), MW07 (490-53317-4), MW12 (490-53317-5), MW14 (490-53317-6), MW15 (490-53317-7), MW19 (490-53317-8). Elevated reporting limits (RLs) are provided.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: MW17 (490-53317-18). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. The hydrocarbon results were confirmed by re-extraction and re-analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batches 163630 and 163922.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
*	LCS or LCSD exceeds the control limits

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW01A

Lab Sample ID: 490-53317-1

Date Collected: 05/14/14 09:05

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	187000		25000	ug/L			05/21/14 18:58	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	118		50 - 150				05/21/14 18:58	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4950		50.0	ug/L			05/21/14 19:00	50
Ethylbenzene	4060		50.0	ug/L			05/21/14 19:00	50
Methyl tert-butyl ether	4530		50.0	ug/L			05/21/14 19:00	50
Naphthalene	439		10.0	ug/L			05/22/14 12:07	2
Toluene	46300		250	ug/L			05/21/14 18:58	250
Xylenes, Total	22000		150	ug/L			05/21/14 19:00	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	124		50 - 150				05/21/14 18:58	250
a,a,a-Trifluorotoluene	89		50 - 150				05/21/14 19:00	50
a,a,a-Trifluorotoluene	106		50 - 150				05/22/14 12:07	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9090		446	ug/L		05/21/14 07:49	05/22/14 10:44	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150			05/21/14 07:49	05/22/14 10:44	5

Client Sample ID: MW02

Lab Sample ID: 490-53317-2

Date Collected: 05/14/14 09:35

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	190000		25000	ug/L			05/21/14 20:01	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	109		50 - 150				05/21/14 20:01	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6280		50.0	ug/L			05/21/14 20:07	50
Ethylbenzene	4170		50.0	ug/L			05/21/14 20:07	50
Methyl tert-butyl ether	11700		50.0	ug/L			05/21/14 20:07	50
Naphthalene	912	E	10.0	ug/L			05/22/14 12:41	2
Toluene	42900		250	ug/L			05/21/14 20:01	250
Xylenes, Total	22000		150	ug/L			05/21/14 20:07	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	116		50 - 150				05/21/14 20:01	250
a,a,a-Trifluorotoluene	83		50 - 150				05/21/14 20:07	50
a,a,a-Trifluorotoluene	102		50 - 150				05/22/14 12:41	2

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW02

Date Collected: 05/14/14 09:35

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-2

Matrix: Ground Water

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11300		463	ug/L		05/21/14 07:49	05/22/14 10:59	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	90		50 - 150			05/21/14 07:49	05/22/14 10:59	5

Client Sample ID: MW03

Date Collected: 05/14/14 09:48

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-3

Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	122000		25000	ug/L			05/21/14 21:04	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	116		50 - 150				05/21/14 21:04	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2130		50.0	ug/L			05/21/14 21:14	50
Ethylbenzene	3100		50.0	ug/L			05/21/14 21:14	50
Methyl tert-butyl ether	1750		50.0	ug/L			05/21/14 21:14	50
Naphthalene	444	E	5.00	ug/L			05/20/14 20:34	1
Toluene	27000		250	ug/L			05/21/14 21:04	250
Xylenes, Total	16400		150	ug/L			05/21/14 21:14	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	96		50 - 150				05/20/14 20:34	1
<i>a,a,a</i> -Trifluorotoluene	122		50 - 150				05/21/14 21:04	250
<i>a,a,a</i> -Trifluorotoluene	84		50 - 150				05/21/14 21:14	50

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5550		446	ug/L		05/21/14 07:49	05/22/14 11:14	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	75		50 - 150			05/21/14 07:49	05/22/14 11:14	5

Client Sample ID: MW07

Date Collected: 05/14/14 10:35

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-4

Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	34700		5000	ug/L			05/21/14 22:07	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	111		50 - 150				05/21/14 22:07	50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1090		5.00	ug/L			05/22/14 01:08	5
Ethylbenzene	1070		5.00	ug/L			05/22/14 01:08	5

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Client Sample ID: MW07

Lab Sample ID: 490-53317-4

Date Collected: 05/14/14 10:35

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	625		5.00	ug/L			05/22/14 01:08	5
Naphthalene	166		5.00	ug/L			05/20/14 21:05	1
Toluene	5070		50.0	ug/L			05/21/14 22:07	50
Xylenes, Total	6360		150	ug/L			05/21/14 22:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	123		50 - 150		05/20/14 21:05	1
a,a,a-Trifluorotoluene	130		50 - 150		05/21/14 22:07	50
a,a,a-Trifluorotoluene	94		50 - 150		05/22/14 01:08	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4980		463	ug/L		05/21/14 07:49	05/22/14 11:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150		05/21/14 07:49	05/22/14 11:29

Client Sample ID: MW12

Lab Sample ID: 490-53317-5

Date Collected: 05/14/14 10:25

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	124000		25000	ug/L			05/21/14 23:09	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	118		50 - 150		05/21/14 23:09	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	762		10.0	ug/L			05/22/14 02:16	10
Ethylbenzene	5260		250	ug/L			05/21/14 23:09	250
Methyl tert-butyl ether	117		10.0	ug/L			05/22/14 02:16	10
Naphthalene	710		50.0	ug/L			05/22/14 02:16	10
Toluene	19800		250	ug/L			05/21/14 23:09	250
Xylenes, Total	28800		750	ug/L			05/21/14 23:09	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	123		50 - 150		05/21/14 23:09	250
a,a,a-Trifluorotoluene	94		50 - 150		05/22/14 02:16	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23700		962	ug/L		05/21/14 07:49	05/22/14 12:46	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 150		05/21/14 07:49	05/22/14 12:46

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW14
Date Collected: 05/14/14 10:02
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-6
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	189000		25000	ug/L			05/22/14 00:12	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	112		50 - 150				05/22/14 00:12	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7720		250	ug/L			05/22/14 11:00	250
Ethylbenzene	5260		250	ug/L			05/22/14 11:00	250
Methyl tert-butyl ether	5850		250	ug/L			05/22/14 11:00	250
Naphthalene	628		25.0	ug/L			05/22/14 03:22	5
Toluene	44800		250	ug/L			05/22/14 11:00	250
Xylenes, Total	29400		750	ug/L			05/22/14 00:12	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	124		50 - 150				05/22/14 00:12	250
a,a,a-Trifluorotoluene	96		50 - 150				05/22/14 03:22	5
a,a,a-Trifluorotoluene	85		50 - 150				05/22/14 11:00	250

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7380		455	ug/L		05/21/14 07:49	05/22/14 12:00	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150			05/21/14 07:49	05/22/14 12:00	5

Client Sample ID: MW15
Date Collected: 05/14/14 10:50
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-7
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	178000		25000	ug/L			05/22/14 01:14	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	115		50 - 150				05/22/14 01:14	250

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9310		250	ug/L			05/22/14 11:34	250
Ethylbenzene	5160		250	ug/L			05/22/14 11:34	250
Methyl tert-butyl ether	4040		250	ug/L			05/22/14 11:34	250
Naphthalene	547		25.0	ug/L			05/22/14 04:30	5
Toluene	48700		250	ug/L			05/22/14 11:34	250
Xylenes, Total	27500		750	ug/L			05/22/14 11:34	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	128		50 - 150				05/22/14 01:14	250
a,a,a-Trifluorotoluene	103		50 - 150				05/22/14 04:30	5
a,a,a-Trifluorotoluene	89		50 - 150				05/22/14 11:34	250

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW15
Date Collected: 05/14/14 10:50
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-7
Matrix: Ground Water

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8500		446	ug/L		05/21/14 07:49	05/22/14 12:15	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	76		50 - 150			05/21/14 07:49	05/22/14 12:15	5

Client Sample ID: MW19
Date Collected: 05/14/14 11:18
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-8
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	29900		5000	ug/L			05/22/14 02:17	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	115		50 - 150				05/22/14 02:17	50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	315		5.00	ug/L			05/22/14 05:36	5
Ethylbenzene	994		5.00	ug/L			05/22/14 05:36	5
Methyl tert-butyl ether	97.3		5.00	ug/L			05/22/14 05:36	5
Naphthalene	179		25.0	ug/L			05/22/14 05:36	5
Toluene	4400		50.0	ug/L			05/22/14 02:17	50
Xylenes, Total	4680		15.0	ug/L			05/22/14 05:36	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	141		50 - 150				05/22/14 02:17	50
<i>a,a,a</i> -Trifluorotoluene	105		50 - 150				05/22/14 05:36	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7220		446	ug/L		05/21/14 07:49	05/22/14 12:31	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	74		50 - 150			05/21/14 07:49	05/22/14 12:31	5

Client Sample ID: MW04
Date Collected: 05/14/14 11:08
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-9
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	4130		500	ug/L			05/22/14 03:20	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	111		50 - 150				05/22/14 03:20	5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	532		5.00	ug/L			05/22/14 03:20	5
Ethylbenzene	14.6		1.00	ug/L			05/22/14 06:43	1
Methyl tert-butyl ether	1150	E	1.00	ug/L			05/22/14 06:43	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW04

Lab Sample ID: 490-53317-9

Date Collected: 05/14/14 11:08

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00	ug/L			05/22/14 06:43	1
Toluene	23.2		1.00	ug/L			05/22/14 06:43	1
Xylenes, Total	303		3.00	ug/L			05/22/14 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	115		50 - 150		05/22/14 03:20	5
a,a,a-Trifluorotoluene	92		50 - 150		05/22/14 06:43	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1220		89.3	ug/L		05/21/14 07:49	05/21/14 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150		05/21/14 07:49	05/21/14 18:39

Client Sample ID: MW05

Lab Sample ID: 490-53317-10

Date Collected: 05/14/14 10:39

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	651		100	ug/L			05/21/14 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150		05/21/14 06:27	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	67.3		1.00	ug/L			05/21/14 06:27	1
Ethylbenzene	13.1		1.00	ug/L			05/21/14 06:27	1
Methyl tert-butyl ether	228		1.00	ug/L			05/21/14 16:11	1
Naphthalene	ND		5.00	ug/L			05/21/14 06:27	1
Toluene	3.32		1.00	ug/L			05/21/14 16:11	1
Xylenes, Total	94.8		3.00	ug/L			05/21/14 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150		05/21/14 06:27	1
a,a,a-Trifluorotoluene	86		50 - 150		05/21/14 16:11	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		89.3	ug/L		05/21/14 07:49	05/21/14 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	69		50 - 150		05/21/14 07:49	05/21/14 18:54

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW06

Lab Sample ID: 490-53317-11

Date Collected: 05/14/14 09:45

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L			05/21/14 00:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150				05/21/14 00:12	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L			05/22/14 00:35	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 00:35	1
Methyl tert-butyl ether	1.12		1.00	ug/L			05/22/14 00:35	1
Naphthalene	ND		5.00	ug/L			05/22/14 00:35	1
Toluene	ND		1.00	ug/L			05/22/14 00:35	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		50 - 150				05/22/14 00:35	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	289		87.7	ug/L		05/21/14 07:49	05/21/14 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150			05/21/14 07:49	05/21/14 19:10	1

Client Sample ID: MW08

Lab Sample ID: 490-53317-12

Date Collected: 05/14/14 14:32

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L			05/21/14 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150				05/21/14 02:49	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L			05/21/14 16:45	1
Ethylbenzene	ND		1.00	ug/L			05/21/14 16:45	1
Methyl tert-butyl ether	1.32		1.00	ug/L			05/21/14 16:45	1
Naphthalene	ND		5.00	ug/L			05/21/14 16:45	1
Toluene	ND		1.00	ug/L			05/21/14 16:45	1
Xylenes, Total	ND		3.00	ug/L			05/21/14 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150				05/21/14 16:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	145		92.6	ug/L		05/21/14 07:49	05/21/14 19:25	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW08

Date Collected: 05/14/14 14:32

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-12

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	70		50 - 150	05/21/14 07:49	05/21/14 19:25	1

Client Sample ID: MW09

Date Collected: 05/14/14 14:02

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-13

Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L	-		05/21/14 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	80		50 - 150		05/21/14 03:20	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L	-		05/21/14 17:19	1
Ethylbenzene	ND		1.00	ug/L	-		05/21/14 17:19	1
Methyl tert-butyl ether	ND		1.00	ug/L	-		05/21/14 17:19	1
Naphthalene	ND		5.00	ug/L	-		05/21/14 17:19	1
Toluene	ND		1.00	ug/L	-		05/21/14 17:19	1
Xylenes, Total	ND		3.00	ug/L	-		05/21/14 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	86		50 - 150		05/21/14 17:19	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		92.6	ug/L	-	05/21/14 07:49	05/21/14 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	68		50 - 150	05/21/14 07:49	05/21/14 19:40	1

Client Sample ID: MW10

Date Collected: 05/14/14 13:38

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-14

Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L	-		05/21/14 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a, a, a</i> -Trifluorotoluene	82		50 - 150		05/21/14 03:51	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L	-		05/21/14 17:52	1
Ethylbenzene	ND		1.00	ug/L	-		05/21/14 17:52	1
Methyl tert-butyl ether	129		1.00	ug/L	-		05/21/14 17:52	1
Naphthalene	ND		5.00	ug/L	-		05/21/14 17:52	1
Toluene	ND		1.00	ug/L	-		05/21/14 17:52	1
Xylenes, Total	ND		3.00	ug/L	-		05/21/14 17:52	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW10
Date Collected: 05/14/14 13:38
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-14
Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		05/21/14 17:52	1
Method: 8015B - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Diesel Range Organics [C10-C28]	ND		92.6	ug/L		1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	05/21/14 07:49	05/21/14 20:26	1

Client Sample ID: MW11
Date Collected: 05/14/14 13:10
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-15
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
GRO (C6-C10)	ND		100	ug/L		1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150	05/21/14 04:22	05/21/14 04:22	1
Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	ND		1.00	ug/L		1
Ethylbenzene	ND		1.00	ug/L		1
Methyl tert-butyl ether	ND		1.00	ug/L		1
Naphthalene	ND		5.00	ug/L		1
Toluene	ND		1.00	ug/L		1
Xylenes, Total	ND		3.00	ug/L		1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		50 - 150	05/21/14 18:26	05/21/14 18:26	1
Method: 8015B - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Diesel Range Organics [C10-C28]	107		94.3	ug/L		1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	65		50 - 150	05/21/14 07:49	05/21/14 20:41	1

Client Sample ID: MW13
Date Collected: 05/14/14 10:20
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-16
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
GRO (C6-C10)	ND		100	ug/L		1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150	05/21/14 06:58	05/21/14 06:58	1
Method: 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	ND		1.00	ug/L		1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW13
Date Collected: 05/14/14 10:20
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-16
Matrix: Ground Water

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00	ug/L			05/21/14 06:58	1
Methyl tert-butyl ether	9.14		1.00	ug/L			05/22/14 09:53	1
Naphthalene	ND		5.00	ug/L			05/21/14 06:58	1
Toluene	ND		1.00	ug/L			05/21/14 06:58	1
Xylenes, Total	ND		3.00	ug/L			05/21/14 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	79		50 - 150				05/21/14 06:58	1
a,a,a-Trifluorotoluene	88		50 - 150				05/22/14 09:53	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		89.3	ug/L		05/21/14 07:49	05/21/14 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	67		50 - 150			05/21/14 07:49	05/21/14 20:56	1

Client Sample ID: MW16
Date Collected: 05/14/14 15:05
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-17
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L			05/21/14 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150				05/21/14 04:53	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L			05/21/14 04:53	1
Ethylbenzene	ND		1.00	ug/L			05/21/14 04:53	1
Methyl tert-butyl ether	8.82		1.00	ug/L			05/22/14 10:27	1
Naphthalene	ND		5.00	ug/L			05/21/14 04:53	1
Toluene	ND		1.00	ug/L			05/21/14 04:53	1
Xylenes, Total	ND		3.00	ug/L			05/21/14 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150				05/21/14 04:53	1
a,a,a-Trifluorotoluene	88		50 - 150				05/22/14 10:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		96.2	ug/L		05/21/14 07:49	05/21/14 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	66		50 - 150			05/21/14 07:49	05/21/14 21:11	1

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW17
Date Collected: 05/14/14 12:47
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-18
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L			05/21/14 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150				05/21/14 05:25	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L			05/21/14 05:25	1
Ethylbenzene	ND		1.00	ug/L			05/21/14 05:25	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/21/14 05:25	1
Naphthalene	ND		5.00	ug/L			05/21/14 05:25	1
Toluene	ND		1.00	ug/L			05/21/14 05:25	1
Xylenes, Total	ND		3.00	ug/L			05/21/14 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		50 - 150				05/21/14 05:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		92.6	ug/L		05/21/14 07:49	05/21/14 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	35	X	50 - 150			05/21/14 07:49	05/21/14 21:26	1

Client Sample ID: MW18
Date Collected: 05/14/14 11:37
Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-19
Matrix: Ground Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		100	ug/L			05/21/14 05:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	72		50 - 150				05/21/14 05:56	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.65		1.00	ug/L			05/21/14 05:56	1
Ethylbenzene	ND		1.00	ug/L			05/21/14 05:56	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/21/14 05:56	1
Naphthalene	ND		5.00	ug/L			05/21/14 05:56	1
Toluene	ND		1.00	ug/L			05/21/14 05:56	1
Xylenes, Total	3.97		3.00	ug/L			05/21/14 05:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	67		50 - 150				05/21/14 05:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	234		89.3	ug/L		05/21/14 07:49	05/21/14 21:42	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: MW18

Date Collected: 05/14/14 11:37

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-19

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	79		50 - 150	05/21/14 07:49	05/21/14 21:42	1

Client Sample ID: DW01

Date Collected: 05/14/14 13:37

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-20

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			05/22/14 16:25	1
Benzene	ND		1.00	ug/L			05/22/14 16:25	1
Bromobenzene	ND		1.00	ug/L			05/22/14 16:25	1
Bromochloromethane	ND		1.00	ug/L			05/22/14 16:25	1
Bromodichloromethane	ND		1.00	ug/L			05/22/14 16:25	1
Bromoform	ND		1.00	ug/L			05/22/14 16:25	1
Bromomethane	ND		1.00	ug/L			05/22/14 16:25	1
2-Butanone (MEK)	ND		50.0	ug/L			05/22/14 16:25	1
Carbon disulfide	ND		1.00	ug/L			05/22/14 16:25	1
Carbon tetrachloride	ND		1.00	ug/L			05/22/14 16:25	1
Chlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
Chlorodibromomethane	ND		1.00	ug/L			05/22/14 16:25	1
Chloroethane	ND		1.00	ug/L			05/22/14 16:25	1
Chloroform	ND		1.00	ug/L			05/22/14 16:25	1
Chloromethane	ND		1.00	ug/L			05/22/14 16:25	1
2-Chlorotoluene	ND		1.00	ug/L			05/22/14 16:25	1
4-Chlorotoluene	ND		1.00	ug/L			05/22/14 16:25	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 16:25	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 16:25	1
1,2-Dibromo-3-Chloropropane	ND *		10.0	ug/L			05/22/14 16:25	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			05/22/14 16:25	1
Dibromomethane	ND		1.00	ug/L			05/22/14 16:25	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
Dichlorodifluoromethane	ND		1.00	ug/L			05/22/14 16:25	1
1,1-Dichloroethane	ND		1.00	ug/L			05/22/14 16:25	1
1,2-Dichloroethane	ND		1.00	ug/L			05/22/14 16:25	1
1,1-Dichloroethene	ND		1.00	ug/L			05/22/14 16:25	1
1,2-Dichloropropane	ND		1.00	ug/L			05/22/14 16:25	1
1,3-Dichloropropane	ND		1.00	ug/L			05/22/14 16:25	1
2,2-Dichloropropane	ND		1.00	ug/L			05/22/14 16:25	1
1,1-Dichloropropene	ND		1.00	ug/L			05/22/14 16:25	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
Hexachlorobutadiene	ND		2.00	ug/L			05/22/14 16:25	1
2-Hexanone	ND		10.0	ug/L			05/22/14 16:25	1
Isopropylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
Methylene Chloride	ND		5.00	ug/L			05/22/14 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			05/22/14 16:25	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/22/14 16:25	1
Naphthalene	ND		5.00	ug/L			05/22/14 16:25	1
n-Butylbenzene	ND		1.00	ug/L			05/22/14 16:25	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW01

Lab Sample ID: 490-53317-20

Date Collected: 05/14/14 13:37

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
p-Isopropyltoluene	ND		1.00	ug/L			05/22/14 16:25	1
sec-Butylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
Styrene	ND		1.00	ug/L			05/22/14 16:25	1
tert-Butylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 16:25	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 16:25	1
Tetrachloroethene	ND		1.00	ug/L			05/22/14 16:25	1
Toluene	ND		1.00	ug/L			05/22/14 16:25	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 16:25	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 16:25	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,1,1-Trichloroethane	ND		1.00	ug/L			05/22/14 16:25	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/22/14 16:25	1
Trichloroethene	ND		1.00	ug/L			05/22/14 16:25	1
Trichlorofluoromethane	ND		1.00	ug/L			05/22/14 16:25	1
1,2,3-Trichloropropane	ND		1.00	ug/L			05/22/14 16:25	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			05/22/14 16:25	1
Vinyl chloride	ND		1.00	ug/L			05/22/14 16:25	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130		05/22/14 16:25	1
Dibromofluoromethane (Surr)	108		70 - 130		05/22/14 16:25	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		05/22/14 16:25	1
Toluene-d8 (Surr)	93		70 - 130		05/22/14 16:25	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Acenaphthylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Benzo[a]anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Benzo[a]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Benzo[b]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Benzo[g,h,i]perylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Benzo[k]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Bis(2-chloroethoxy)methane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Bis(2-chloroethyl)ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
bis (2-chloroisopropyl) ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Bis(2-ethylhexyl) phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
4-Bromophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Butyl benzyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Carbazole	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
4-Chloroaniline	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
4-Chloro-3-methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Chloronaphthalene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Chlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW01

Lab Sample ID: 490-53317-20

Date Collected: 05/14/14 13:37

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Chrysene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Cresols	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Dibenz(a,h)anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Dibenzofuran	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
1,2-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
1,3-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
1,4-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
3,3'-Dichlorobenzidine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4-Dichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Diethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4-Dimethylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Dimethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Di-n-butyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
4,6-Dinitro-2-methylphenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4-Dinitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,6-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Di-n-octyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Fluorene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Hexachlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Hexachlorobutadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Hexachlorocyclopentadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Hexachloroethane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Indeno[1,2,3-cd]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Isophorone	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
1-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
3 & 4 Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Naphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
3-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
4-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
Nitrobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2-Nitrophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
4-Nitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
N-Nitrosodi-n-propylamine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Pentachlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
Phenanthrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
Phenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
Pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:31	1
1,2,4-Trichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4,5-Trichlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:31	1
2,4,6-Trichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		29 - 120	05/20/14 09:17	05/20/14 18:31	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW01

Date Collected: 05/14/14 13:37

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-20

Matrix: Ground Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	36		10 - 120	05/20/14 09:17	05/20/14 18:31	1
Nitrobenzene-d5 (Surr)	62		27 - 120	05/20/14 09:17	05/20/14 18:31	1
Phenol-d5 (Surr)	22		10 - 120	05/20/14 09:17	05/20/14 18:31	1
Terphenyl-d14 (Surr)	72		13 - 120	05/20/14 09:17	05/20/14 18:31	1
2,4,6-Tribromophenol (Surr)	70		10 - 120	05/20/14 09:17	05/20/14 18:31	1

Client Sample ID: DW07

Date Collected: 05/14/14 15:30

Date Received: 05/16/14 08:30

Lab Sample ID: 490-53317-21

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			05/22/14 16:54	1
Benzene	ND		1.00	ug/L			05/22/14 16:54	1
Bromobenzene	ND		1.00	ug/L			05/22/14 16:54	1
Bromochloromethane	ND		1.00	ug/L			05/22/14 16:54	1
Bromodichloromethane	ND		1.00	ug/L			05/22/14 16:54	1
Bromoform	ND		1.00	ug/L			05/22/14 16:54	1
Bromomethane	ND		1.00	ug/L			05/22/14 16:54	1
2-Butanone (MEK)	ND		50.0	ug/L			05/22/14 16:54	1
Carbon disulfide	ND		1.00	ug/L			05/22/14 16:54	1
Carbon tetrachloride	ND		1.00	ug/L			05/22/14 16:54	1
Chlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
Chlorodibromomethane	ND		1.00	ug/L			05/22/14 16:54	1
Chloroethane	ND		1.00	ug/L			05/22/14 16:54	1
Chloroform	ND		1.00	ug/L			05/22/14 16:54	1
Chloromethane	ND		1.00	ug/L			05/22/14 16:54	1
2-Chlorotoluene	ND		1.00	ug/L			05/22/14 16:54	1
4-Chlorotoluene	ND		1.00	ug/L			05/22/14 16:54	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 16:54	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 16:54	1
1,2-Dibromo-3-Chloropropane	ND *		10.0	ug/L			05/22/14 16:54	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			05/22/14 16:54	1
Dibromomethane	ND		1.00	ug/L			05/22/14 16:54	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
Dichlorodifluoromethane	ND		1.00	ug/L			05/22/14 16:54	1
1,1-Dichloroethane	ND		1.00	ug/L			05/22/14 16:54	1
1,2-Dichloroethane	ND		1.00	ug/L			05/22/14 16:54	1
1,1-Dichloroethene	ND		1.00	ug/L			05/22/14 16:54	1
1,2-Dichloropropane	ND		1.00	ug/L			05/22/14 16:54	1
1,3-Dichloropropane	ND		1.00	ug/L			05/22/14 16:54	1
2,2-Dichloropropane	ND		1.00	ug/L			05/22/14 16:54	1
1,1-Dichloropropene	ND		1.00	ug/L			05/22/14 16:54	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
Hexachlorobutadiene	ND		2.00	ug/L			05/22/14 16:54	1
2-Hexanone	ND		10.0	ug/L			05/22/14 16:54	1
Isopropylbenzene	ND		1.00	ug/L			05/22/14 16:54	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW07

Lab Sample ID: 490-53317-21

Date Collected: 05/14/14 15:30

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			05/22/14 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			05/22/14 16:54	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/22/14 16:54	1
Naphthalene	ND		5.00	ug/L			05/22/14 16:54	1
n-Butylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
N-Propylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
p-Isopropyltoluene	ND		1.00	ug/L			05/22/14 16:54	1
sec-Butylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
Styrene	ND		1.00	ug/L			05/22/14 16:54	1
tert-Butylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 16:54	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 16:54	1
Tetrachloroethene	ND		1.00	ug/L			05/22/14 16:54	1
Toluene	ND		1.00	ug/L			05/22/14 16:54	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 16:54	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 16:54	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,1,1-Trichloroethane	ND		1.00	ug/L			05/22/14 16:54	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/22/14 16:54	1
Trichloroethene	ND		1.00	ug/L			05/22/14 16:54	1
Trichlorofluoromethane	ND		1.00	ug/L			05/22/14 16:54	1
1,2,3-Trichloropropane	ND		1.00	ug/L			05/22/14 16:54	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			05/22/14 16:54	1
Vinyl chloride	ND		1.00	ug/L			05/22/14 16:54	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130		05/22/14 16:54	1
Dibromofluoromethane (Surr)	107		70 - 130		05/22/14 16:54	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		05/22/14 16:54	1
Toluene-d8 (Surr)	92		70 - 130		05/22/14 16:54	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Acenaphthylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Benzo[a]anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Benzo[a]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Benzo[b]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Benzo[g,h,i]perylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Benzo[k]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Bis(2-chloroethoxy)methane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Bis(2-chloroethyl)ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
bis (2-chloroisopropyl) ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Bis(2-ethylhexyl) phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Bromophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Butyl benzyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW07

Lab Sample ID: 490-53317-21

Date Collected: 05/14/14 15:30

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Chloroaniline	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Chloro-3-methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Chloronaphthalene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Chlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Chlorophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Chrysene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Cresols	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Dibenz(a,h)anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Dibenzofuran	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
1,2-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
1,3-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
1,4-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
3,3'-Dichlorobenzidine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4-Dichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Diethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4-Dimethylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Dimethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Di-n-butyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4,6-Dinitro-2-methylphenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4-Dinitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,6-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Di-n-octyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Fluorene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Hexachlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Hexachlorobutadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Hexachlorocyclopentadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Hexachloroethane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Indeno[1,2,3-cd]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Isophorone	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
1-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
3 & 4 Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Naphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
3-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
Nitrobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2-Nitrophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
4-Nitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
N-Nitrosodi-n-propylamine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Pentachlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
Phenanthrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1
Phenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 18:55	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW07

Lab Sample ID: 490-53317-21

Date Collected: 05/14/14 15:30

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4,5-Trichlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 18:55	1
2,4,6-Trichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120			05/20/14 09:17	05/20/14 18:55	1
2-Fluorophenol (Surr)	32		10 - 120			05/20/14 09:17	05/20/14 18:55	1
Nitrobenzene-d5 (Surr)	54		27 - 120			05/20/14 09:17	05/20/14 18:55	1
Phenol-d5 (Surr)	19		10 - 120			05/20/14 09:17	05/20/14 18:55	1
Terphenyl-d14 (Surr)	82		13 - 120			05/20/14 09:17	05/20/14 18:55	1
2,4,6-Tribromophenol (Surr)	73		10 - 120			05/20/14 09:17	05/20/14 18:55	1

Client Sample ID: DW13

Lab Sample ID: 490-53317-22

Date Collected: 05/14/14 14:40

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			05/22/14 17:22	1
Benzene	ND		1.00	ug/L			05/22/14 17:22	1
Bromobenzene	ND		1.00	ug/L			05/22/14 17:22	1
Bromochloromethane	ND		1.00	ug/L			05/22/14 17:22	1
Bromodichloromethane	ND		1.00	ug/L			05/22/14 17:22	1
Bromoform	ND		1.00	ug/L			05/22/14 17:22	1
Bromomethane	ND		1.00	ug/L			05/22/14 17:22	1
2-Butanone (MEK)	ND		50.0	ug/L			05/22/14 17:22	1
Carbon disulfide	ND		1.00	ug/L			05/22/14 17:22	1
Carbon tetrachloride	ND		1.00	ug/L			05/22/14 17:22	1
Chlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
Chlorodibromomethane	ND		1.00	ug/L			05/22/14 17:22	1
Chloroethane	ND		1.00	ug/L			05/22/14 17:22	1
Chloroform	1.01		1.00	ug/L			05/22/14 17:22	1
Chloromethane	ND		1.00	ug/L			05/22/14 17:22	1
2-Chlorotoluene	ND		1.00	ug/L			05/22/14 17:22	1
4-Chlorotoluene	ND		1.00	ug/L			05/22/14 17:22	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 17:22	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 17:22	1
1,2-Dibromo-3-Chloropropane	ND *		10.0	ug/L			05/22/14 17:22	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			05/22/14 17:22	1
Dibromomethane	ND		1.00	ug/L			05/22/14 17:22	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
Dichlorodifluoromethane	ND		1.00	ug/L			05/22/14 17:22	1
1,1-Dichloroethane	ND		1.00	ug/L			05/22/14 17:22	1
1,2-Dichloroethane	ND		1.00	ug/L			05/22/14 17:22	1
1,1-Dichloroethene	ND		1.00	ug/L			05/22/14 17:22	1
1,2-Dichloropropane	ND		1.00	ug/L			05/22/14 17:22	1
1,3-Dichloropropane	ND		1.00	ug/L			05/22/14 17:22	1
2,2-Dichloropropane	ND		1.00	ug/L			05/22/14 17:22	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW13

Lab Sample ID: 490-53317-22

Date Collected: 05/14/14 14:40

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.00	ug/L			05/22/14 17:22	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
Hexachlorobutadiene	ND		2.00	ug/L			05/22/14 17:22	1
2-Hexanone	ND		10.0	ug/L			05/22/14 17:22	1
Isopropylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
Methylene Chloride	ND		5.00	ug/L			05/22/14 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			05/22/14 17:22	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/22/14 17:22	1
Naphthalene	ND		5.00	ug/L			05/22/14 17:22	1
n-Butylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
N-Propylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
p-Isopropyltoluene	ND		1.00	ug/L			05/22/14 17:22	1
sec-Butylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
Styrene	ND		1.00	ug/L			05/22/14 17:22	1
tert-Butylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 17:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 17:22	1
Tetrachloroethene	1.06		1.00	ug/L			05/22/14 17:22	1
Toluene	ND		1.00	ug/L			05/22/14 17:22	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 17:22	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 17:22	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,1,1-Trichloroethane	ND		1.00	ug/L			05/22/14 17:22	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/22/14 17:22	1
Trichloroethene	ND		1.00	ug/L			05/22/14 17:22	1
Trichlorofluoromethane	ND		1.00	ug/L			05/22/14 17:22	1
1,2,3-Trichloropropane	ND		1.00	ug/L			05/22/14 17:22	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			05/22/14 17:22	1
Vinyl chloride	ND		1.00	ug/L			05/22/14 17:22	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		05/22/14 17:22	1
Dibromofluoromethane (Surr)	108		70 - 130		05/22/14 17:22	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		05/22/14 17:22	1
Toluene-d8 (Surr)	93		70 - 130		05/22/14 17:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Acenaphthylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Benzo[a]anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Benzo[a]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Benzo[b]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Benzo[g,h,i]perylene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Benzo[k]fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Bis(2-chloroethoxy)methane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW13

Lab Sample ID: 490-53317-22

Date Collected: 05/14/14 14:40

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
bis (2-chloroisopropyl) ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Bis(2-ethylhexyl) phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Bromophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Butyl benzyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Carbazole	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Chloroaniline	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Chloro-3-methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Chloronaphthalene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Chlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Chlorophenyl phenyl ether	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Chrysene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Cresols	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Dibenz(a,h)anthracene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Dibenzofuran	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
1,2-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
1,3-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
1,4-Dichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
3,3'-Dichlorobenzidine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4-Dichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Diethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4-Dimethylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Dimethyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Di-n-butyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4,6-Dinitro-2-methylphenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4-Dinitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,6-Dinitrotoluene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Di-n-octyl phthalate	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Fluoranthene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Fluorene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Hexachlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Hexachlorobutadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Hexachlorocyclopentadiene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Hexachloroethane	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Indeno[1,2,3-cd]pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Isophorone	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
1-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Methylnaphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
3 & 4 Methylphenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Naphthalene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
3-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Nitroaniline	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
Nitrobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2-Nitrophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
4-Nitrophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
N-Nitrosodi-n-propylamine	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW13

Lab Sample ID: 490-53317-22

Date Collected: 05/14/14 14:40

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Pentachlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
Phenanthrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
Phenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Pyrene	ND		1.75	ug/L		05/20/14 09:17	05/20/14 19:19	1
1,2,4-Trichlorobenzene	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4,5-Trichlorophenol	ND		21.9	ug/L		05/20/14 09:17	05/20/14 19:19	1
2,4,6-Trichlorophenol	ND		8.77	ug/L		05/20/14 09:17	05/20/14 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		29 - 120			05/20/14 09:17	05/20/14 19:19	1
2-Fluorophenol (Surr)	31		10 - 120			05/20/14 09:17	05/20/14 19:19	1
Nitrobenzene-d5 (Surr)	56		27 - 120			05/20/14 09:17	05/20/14 19:19	1
Phenol-d5 (Surr)	19		10 - 120			05/20/14 09:17	05/20/14 19:19	1
Terphenyl-d14 (Surr)	69		13 - 120			05/20/14 09:17	05/20/14 19:19	1
2,4,6-Tribromophenol (Surr)	62		10 - 120			05/20/14 09:17	05/20/14 19:19	1

Client Sample ID: DW14

Lab Sample ID: 490-53317-23

Date Collected: 05/14/14 14:45

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			05/22/14 17:51	1
Benzene	ND		1.00	ug/L			05/22/14 17:51	1
Bromobenzene	ND		1.00	ug/L			05/22/14 17:51	1
Bromochloromethane	ND		1.00	ug/L			05/22/14 17:51	1
Bromodichloromethane	ND		1.00	ug/L			05/22/14 17:51	1
Bromoform	ND		1.00	ug/L			05/22/14 17:51	1
Bromomethane	ND		1.00	ug/L			05/22/14 17:51	1
2-Butanone (MEK)	ND		50.0	ug/L			05/22/14 17:51	1
Carbon disulfide	ND		1.00	ug/L			05/22/14 17:51	1
Carbon tetrachloride	ND		1.00	ug/L			05/22/14 17:51	1
Chlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
Chlorodibromomethane	ND		1.00	ug/L			05/22/14 17:51	1
Chloroethane	ND		1.00	ug/L			05/22/14 17:51	1
Chloroform	ND		1.00	ug/L			05/22/14 17:51	1
Chloromethane	ND		1.00	ug/L			05/22/14 17:51	1
2-Chlorotoluene	ND		1.00	ug/L			05/22/14 17:51	1
4-Chlorotoluene	ND		1.00	ug/L			05/22/14 17:51	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 17:51	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 17:51	1
1,2-Dibromo-3-Chloropropane	ND *		10.0	ug/L			05/22/14 17:51	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			05/22/14 17:51	1
Dibromomethane	ND		1.00	ug/L			05/22/14 17:51	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
Dichlorodifluoromethane	ND		1.00	ug/L			05/22/14 17:51	1
1,1-Dichloroethane	ND		1.00	ug/L			05/22/14 17:51	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW14

Lab Sample ID: 490-53317-23

Date Collected: 05/14/14 14:45

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00	ug/L			05/22/14 17:51	1
1,1-Dichloroethene	ND		1.00	ug/L			05/22/14 17:51	1
1,2-Dichloropropane	ND		1.00	ug/L			05/22/14 17:51	1
1,3-Dichloropropane	ND		1.00	ug/L			05/22/14 17:51	1
2,2-Dichloropropane	ND		1.00	ug/L			05/22/14 17:51	1
1,1-Dichloropropene	ND		1.00	ug/L			05/22/14 17:51	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
Hexachlorobutadiene	ND		2.00	ug/L			05/22/14 17:51	1
2-Hexanone	ND		10.0	ug/L			05/22/14 17:51	1
Isopropylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
Methylene Chloride	ND		5.00	ug/L			05/22/14 17:51	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			05/22/14 17:51	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/22/14 17:51	1
Naphthalene	ND		5.00	ug/L			05/22/14 17:51	1
n-Butylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
N-Propylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
p-Isopropyltoluene	ND		1.00	ug/L			05/22/14 17:51	1
sec-Butylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
Styrene	ND		1.00	ug/L			05/22/14 17:51	1
tert-Butylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 17:51	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 17:51	1
Tetrachloroethene	ND		1.00	ug/L			05/22/14 17:51	1
Toluene	ND		1.00	ug/L			05/22/14 17:51	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 17:51	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 17:51	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,1,1-Trichloroethane	ND		1.00	ug/L			05/22/14 17:51	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/22/14 17:51	1
Trichloroethene	ND		1.00	ug/L			05/22/14 17:51	1
Trichlorofluoromethane	ND		1.00	ug/L			05/22/14 17:51	1
1,2,3-Trichloropropane	ND		1.00	ug/L			05/22/14 17:51	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			05/22/14 17:51	1
Vinyl chloride	ND		1.00	ug/L			05/22/14 17:51	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		05/22/14 17:51	1
Dibromofluoromethane (Surr)	107		70 - 130		05/22/14 17:51	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/22/14 17:51	1
Toluene-d8 (Surr)	92		70 - 130		05/22/14 17:51	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Acenaphthylene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Anthracene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Benzo[a]anthracene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW14

Lab Sample ID: 490-53317-23

Date Collected: 05/14/14 14:45

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Benzo[b]fluoranthene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Benzo[g,h,i]perylene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Benzo[k]fluoranthene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Bis(2-chloroethoxy)methane	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Bis(2-chloroethyl)ether	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
bis (2-chloroisopropyl) ether	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Bis(2-ethylhexyl) phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4-Bromophenyl phenyl ether	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Butyl benzyl phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Carbazole	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4-Chloroaniline	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4-Chloro-3-methylphenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Chloronaphthalene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Chlorophenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4-Chlorophenyl phenyl ether	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Chrysene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Cresols	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Dibenz(a,h)anthracene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Dibenzofuran	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
1,2-Dichlorobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
1,3-Dichlorobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
1,4-Dichlorobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
3,3'-Dichlorobenzidine	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4-Dichlorophenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Diethyl phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4-Dimethylphenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Dimethyl phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Di-n-butyl phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4,6-Dinitro-2-methylphenol	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4-Dinitrophenol	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4-Dinitrotoluene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,6-Dinitrotoluene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Di-n-octyl phthalate	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Fluoranthene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Fluorene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Hexachlorobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Hexachlorobutadiene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Hexachlorocyclopentadiene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Hexachloroethane	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Indeno[1,2,3-cd]pyrene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Isophorone	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
1-Methylnaphthalene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Methylnaphthalene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Methylphenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
3 & 4 Methylphenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Naphthalene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Nitroaniline	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
3-Nitroaniline	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
SDG: FMMD1003

Client Sample ID: DW14

Lab Sample ID: 490-53317-23

Date Collected: 05/14/14 14:45

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
Nitrobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2-Nitrophenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
4-Nitrophenol	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
N-Nitrosodi-n-propylamine	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Pentachlorophenol	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
Phenanthrene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
Phenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Pyrene	ND		1.72	ug/L		05/20/14 09:17	05/20/14 19:43	1
1,2,4-Trichlorobenzene	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4,5-Trichlorophenol	ND		21.6	ug/L		05/20/14 09:17	05/20/14 19:43	1
2,4,6-Trichlorophenol	ND		8.62	ug/L		05/20/14 09:17	05/20/14 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		29 - 120			05/20/14 09:17	05/20/14 19:43	1
2-Fluorophenol (Surr)	39		10 - 120			05/20/14 09:17	05/20/14 19:43	1
Nitrobenzene-d5 (Surr)	69		27 - 120			05/20/14 09:17	05/20/14 19:43	1
Phenol-d5 (Surr)	23		10 - 120			05/20/14 09:17	05/20/14 19:43	1
Terphenyl-d14 (Surr)	80		13 - 120			05/20/14 09:17	05/20/14 19:43	1
2,4,6-Tribromophenol (Surr)	76		10 - 120			05/20/14 09:17	05/20/14 19:43	1

Client Sample ID: DW17

Lab Sample ID: 490-53317-24

Date Collected: 05/14/14 14:15

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			05/22/14 18:19	1
Benzene	ND		1.00	ug/L			05/22/14 18:19	1
Bromobenzene	ND		1.00	ug/L			05/22/14 18:19	1
Bromochloromethane	ND		1.00	ug/L			05/22/14 18:19	1
Bromodichloromethane	ND		1.00	ug/L			05/22/14 18:19	1
Bromoform	ND		1.00	ug/L			05/22/14 18:19	1
Bromomethane	ND		1.00	ug/L			05/22/14 18:19	1
2-Butanone (MEK)	ND		50.0	ug/L			05/22/14 18:19	1
Carbon disulfide	ND		1.00	ug/L			05/22/14 18:19	1
Carbon tetrachloride	ND		1.00	ug/L			05/22/14 18:19	1
Chlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
Chlorodibromomethane	ND		1.00	ug/L			05/22/14 18:19	1
Chloroethane	ND		1.00	ug/L			05/22/14 18:19	1
Chloroform	ND		1.00	ug/L			05/22/14 18:19	1
Chloromethane	ND		1.00	ug/L			05/22/14 18:19	1
2-Chlorotoluene	ND		1.00	ug/L			05/22/14 18:19	1
4-Chlorotoluene	ND		1.00	ug/L			05/22/14 18:19	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 18:19	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 18:19	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			05/22/14 18:19	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			05/22/14 18:19	1
Dibromomethane	ND		1.00	ug/L			05/22/14 18:19	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW17

Lab Sample ID: 490-53317-24

Date Collected: 05/14/14 14:15

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
Dichlorodifluoromethane	ND		1.00	ug/L			05/22/14 18:19	1
1,1-Dichloroethane	ND		1.00	ug/L			05/22/14 18:19	1
1,2-Dichloroethane	ND		1.00	ug/L			05/22/14 18:19	1
1,1-Dichloroethene	ND		1.00	ug/L			05/22/14 18:19	1
1,2-Dichloropropane	ND		1.00	ug/L			05/22/14 18:19	1
1,3-Dichloropropane	ND		1.00	ug/L			05/22/14 18:19	1
2,2-Dichloropropane	ND		1.00	ug/L			05/22/14 18:19	1
1,1-Dichloropropene	ND		1.00	ug/L			05/22/14 18:19	1
Ethylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
Hexachlorobutadiene	ND		2.00	ug/L			05/22/14 18:19	1
2-Hexanone	ND		10.0	ug/L			05/22/14 18:19	1
Isopropylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
Methylene Chloride	ND		5.00	ug/L			05/22/14 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			05/22/14 18:19	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/22/14 18:19	1
Naphthalene	ND		5.00	ug/L			05/22/14 18:19	1
n-Butylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
N-Propylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
p-Isopropyltoluene	ND		1.00	ug/L			05/22/14 18:19	1
sec-Butylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
Styrene	ND		1.00	ug/L			05/22/14 18:19	1
tert-Butylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 18:19	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			05/22/14 18:19	1
Tetrachloroethene	ND		1.00	ug/L			05/22/14 18:19	1
Toluene	ND		1.00	ug/L			05/22/14 18:19	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/22/14 18:19	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/22/14 18:19	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,1,1-Trichloroethane	ND		1.00	ug/L			05/22/14 18:19	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/22/14 18:19	1
Trichloroethene	ND		1.00	ug/L			05/22/14 18:19	1
Trichlorofluoromethane	ND		1.00	ug/L			05/22/14 18:19	1
1,2,3-Trichloropropane	ND		1.00	ug/L			05/22/14 18:19	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			05/22/14 18:19	1
Vinyl chloride	ND		1.00	ug/L			05/22/14 18:19	1
Xylenes, Total	ND		3.00	ug/L			05/22/14 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		05/22/14 18:19	1
Dibromofluoromethane (Surr)	107		70 - 130		05/22/14 18:19	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/22/14 18:19	1
Toluene-d8 (Surr)	93		70 - 130		05/22/14 18:19	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW17

Lab Sample ID: 490-53317-24

Date Collected: 05/14/14 14:15

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Acenaphthylene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Anthracene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Benzo[a]anthracene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Benzo[a]pyrene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Benzo[b]fluoranthene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Benzo[g,h,i]perylene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Benzo[k]fluoranthene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Bis(2-chloroethoxy)methane	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Bis(2-chloroethyl)ether	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
bis(2-chloroisopropyl) ether	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Bis(2-ethylhexyl) phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Bromophenyl phenyl ether	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Butyl benzyl phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Carbazole	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Chloroaniline	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Chloro-3-methylphenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Chloronaphthalene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Chlorophenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Chlorophenyl phenyl ether	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Chrysene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Cresols	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Dibenz(a,h)anthracene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Dibenzofuran	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
1,2-Dichlorobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
1,3-Dichlorobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
1,4-Dichlorobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
3,3'-Dichlorobenzidine	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4-Dichlorophenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Diethyl phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4-Dimethylphenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Dimethyl phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Di-n-butyl phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4,6-Dinitro-2-methylphenol	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4-Dinitrophenol	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4-Dinitrotoluene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,6-Dinitrotoluene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Di-n-octyl phthalate	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Fluoranthene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Fluorene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Hexachlorobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Hexachlorobutadiene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Hexachlorocyclopentadiene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Hexachloroethane	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Indeno[1,2,3-cd]pyrene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Isophorone	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
1-Methylnaphthalene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Methylnaphthalene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Methylphenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-53317-1
 SDG: FMMD1003

Client Sample ID: DW17

Lab Sample ID: 490-53317-24

Date Collected: 05/14/14 14:15

Matrix: Ground Water

Date Received: 05/16/14 08:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Naphthalene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Nitroaniline	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
3-Nitroaniline	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Nitroaniline	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
Nitrobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2-Nitrophenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
4-Nitrophenol	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
N-Nitrosodi-n-propylamine	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Pentachlorophenol	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
Phenanthrene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
Phenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
Pyrene	ND		1.85	ug/L		05/20/14 09:17	05/20/14 20:07	1
1,2,4-Trichlorobenzene	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4,5-Trichlorophenol	ND		23.1	ug/L		05/20/14 09:17	05/20/14 20:07	1
2,4,6-Trichlorophenol	ND		9.26	ug/L		05/20/14 09:17	05/20/14 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		29 - 120	05/20/14 09:17	05/20/14 20:07	1
2-Fluorophenol (Surr)	46		10 - 120	05/20/14 09:17	05/20/14 20:07	1
Nitrobenzene-d5 (Surr)	78		27 - 120	05/20/14 09:17	05/20/14 20:07	1
Phenol-d5 (Surr)	29		10 - 120	05/20/14 09:17	05/20/14 20:07	1
Terphenyl-d14 (Surr)	88		13 - 120	05/20/14 09:17	05/20/14 20:07	1
2,4,6-Tribromophenol (Surr)	83		10 - 120	05/20/14 09:17	05/20/14 20:07	1

COOLER RECEIPT FORM



490-53317 Chain of Custody

Cooler Received/Opened On 5/16/2014@ 0830

1. Tracking # 7845 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 2.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front + Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) DA

I certify that I attached a label with the unique LIMS number to each container (initial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

COOLER RECEIPT FORM

Cooler Received/Opened On : 5/16/2014 @ 0830

1. Tracking # 7856 (last 4 digits, FedEx)
Courier: Fed-ex IR Gun: 96210146
2. Temperature of rep. sample or temp blank when opened: 6.1 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES NO NA
If yes, how many and where: 2 Front
5. Were the seals intact, signed, and dated correctly? YES NO NA
6. Were custody papers inside cooler? YES NO NA
- I certify that I opened the cooler and answered questions 1-6 (initial) LS
7. Were custody seals on containers: YES NO and Intact YES NO NA
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO NA
14. Was there a Trip Blank in this cooler? YES...NO NA If multiple coolers, sequence # _____
- I certify that I unloaded the cooler and answered questions 7-14 (initial) CH
- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES NO NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) LS
17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA
- I certify that I entered this project into LIMS and answered questions 17-20 (initial) LS
- I certify that I attached a label with the unique LIMS number to each container (initial) LS
21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO # _____

COOLER RECEIPT FORM

TAN 53317

Cooler Received/Opened On 5/16/2014 @ 0830

1. Tracking # 7867 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (Initial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) MDM

I certify that I attached a label with the unique LIMS number to each container (Initial) MDM

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Login Sample Receipt Checklist

Client: Greene Environmental Services LLC

Job Number: 490-53317-1

SDG Number: FMMD1003

Login Number: 53317

List Number: 1

Creator: Huckaba, Jimmy

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-56261-1
TestAmerica Sample Delivery Group: FMMD1003
Client Project/Site: Meadows of Dan Food Market

For:
Greene Environmental Services LLC
200 Buckwheat Lane
Rocky Mount, Virginia 24151

Attn: Arthur T. Greene III



Authorized for release by:
7/2/2014 1:14:10 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56261-1
SDG: FMMD1003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-56261-1	DW19	Ground Water	06/25/14 09:03	06/26/14 09:00

1

2

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Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56261-1
SDG: FMMD1003

Job ID: 490-56261-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-56261-1

Comments

Analyses for TPH GRO and TPH DRO were canceled at the client's request.

No additional comments.

Receipt

The sample was received on 6/26/2014 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
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- 8
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- 10
- 11
- 12
- 13

Definitions/Glossary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56261-1
SDG: FMMD1003

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56261-1
 SDG: FMMD1003

Client Sample ID: DW19

Lab Sample ID: 490-56261-1

Date Collected: 06/25/14 09:03

Matrix: Ground Water

Date Received: 06/26/14 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			06/28/14 16:53	1
Benzene	ND		1.00	ug/L			06/28/14 16:53	1
Bromobenzene	ND		1.00	ug/L			06/28/14 16:53	1
Bromochloromethane	ND		1.00	ug/L			06/28/14 16:53	1
Bromodichloromethane	ND		1.00	ug/L			06/28/14 16:53	1
Bromoform	ND		1.00	ug/L			06/28/14 16:53	1
Bromomethane	ND		1.00	ug/L			06/28/14 16:53	1
2-Butanone (MEK)	ND		50.0	ug/L			06/28/14 16:53	1
Carbon disulfide	ND		1.00	ug/L			06/28/14 16:53	1
Carbon tetrachloride	ND		1.00	ug/L			06/28/14 16:53	1
Chlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
Chlorodibromomethane	ND		1.00	ug/L			06/28/14 16:53	1
Chloroethane	ND		1.00	ug/L			06/28/14 16:53	1
Chloroform	ND		1.00	ug/L			06/28/14 16:53	1
Chloromethane	ND		1.00	ug/L			06/28/14 16:53	1
2-Chlorotoluene	ND		1.00	ug/L			06/28/14 16:53	1
4-Chlorotoluene	ND		1.00	ug/L			06/28/14 16:53	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			06/28/14 16:53	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			06/28/14 16:53	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			06/28/14 16:53	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			06/28/14 16:53	1
Dibromomethane	ND		1.00	ug/L			06/28/14 16:53	1
1,2-Dichlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,3-Dichlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,4-Dichlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
Dichlorodifluoromethane	ND		1.00	ug/L			06/28/14 16:53	1
1,1-Dichloroethane	ND		1.00	ug/L			06/28/14 16:53	1
1,2-Dichloroethane	ND		1.00	ug/L			06/28/14 16:53	1
1,1-Dichloroethene	ND		1.00	ug/L			06/28/14 16:53	1
1,2-Dichloropropane	ND		1.00	ug/L			06/28/14 16:53	1
1,3-Dichloropropane	ND		1.00	ug/L			06/28/14 16:53	1
2,2-Dichloropropane	ND		1.00	ug/L			06/28/14 16:53	1
1,1-Dichloropropene	ND		1.00	ug/L			06/28/14 16:53	1
Ethylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
Hexachlorobutadiene	ND		2.00	ug/L			06/28/14 16:53	1
2-Hexanone	ND		10.0	ug/L			06/28/14 16:53	1
Isopropylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
Methylene Chloride	ND		5.00	ug/L			06/28/14 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			06/28/14 16:53	1
Methyl tert-butyl ether	ND		1.00	ug/L			06/28/14 16:53	1
Naphthalene	ND		5.00	ug/L			06/28/14 16:53	1
n-Butylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
N-Propylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
p-Isopropyltoluene	ND		1.00	ug/L			06/28/14 16:53	1
sec-Butylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
Styrene	ND		1.00	ug/L			06/28/14 16:53	1
tert-Butylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			06/28/14 16:53	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			06/28/14 16:53	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56261-1
 SDG: FMMD1003

Client Sample ID: DW19

Lab Sample ID: 490-56261-1

Date Collected: 06/25/14 09:03

Matrix: Ground Water

Date Received: 06/26/14 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			06/28/14 16:53	1
Toluene	ND		1.00	ug/L			06/28/14 16:53	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			06/28/14 16:53	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			06/28/14 16:53	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,1,1-Trichloroethane	ND		1.00	ug/L			06/28/14 16:53	1
1,1,2-Trichloroethane	ND		1.00	ug/L			06/28/14 16:53	1
Trichloroethene	ND		1.00	ug/L			06/28/14 16:53	1
Trichlorofluoromethane	ND		1.00	ug/L			06/28/14 16:53	1
1,2,3-Trichloropropane	ND		1.00	ug/L			06/28/14 16:53	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			06/28/14 16:53	1
Vinyl chloride	ND		1.00	ug/L			06/28/14 16:53	1
Xylenes, Total	ND		2.00	ug/L			06/28/14 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130		06/28/14 16:53	1
Dibromofluoromethane (Surr)	104		70 - 130		06/28/14 16:53	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		06/28/14 16:53	1
Toluene-d8 (Surr)	93		70 - 130		06/28/14 16:53	1



COOLER RECEIPT FORM

Cooler Received/Opened On 6/26/2014 @ 0900

1. Tracking # 7830 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) MDM

I certify that I attached a label with the unique LIMS number to each container (initial) MDM

21. Were there Non-Conformance issues at login? YES..NO Was a PIPE generated? YES..NO..# _____

Login Sample Receipt Checklist

Client: Greene Environmental Services LLC

Job Number: 490-56261-1

SDG Number: FMMD1003

Login Number: 56261

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-56656-1
TestAmerica Sample Delivery Group: FMMD1003
Client Project/Site: Meadows of Dan Food Market

For:
Greene Environmental Services LLC
200 Buckwheat Lane
Rocky Mount, Virginia 24151

Attn: Arthur T. Greene III



Authorized for release by:
7/8/2014 3:07:06 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
SDG: FMMD1003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-56656-1	DW16	Ground Water	07/01/14 10:15	07/02/14 10:15

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Case Narrative

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
SDG: FMMD1003

Job ID: 490-56656-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-56656-1

Comments

No additional comments.

Receipt

The sample was received on 7/2/2014 10:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 174398 recovered outside control limits for the following analyte: 1,2-dichloropropane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 174755.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 174755.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Greene Environmental Services LLC
Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
SDG: FMMD1003

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
 SDG: FMMD1003

Client Sample ID: DW16
Date Collected: 07/01/14 10:15
Date Received: 07/02/14 10:15

Lab Sample ID: 490-56656-1
Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	ug/L			07/03/14 14:01	1
Benzene	ND		1.00	ug/L			07/03/14 14:01	1
Bromobenzene	ND		1.00	ug/L			07/03/14 14:01	1
Bromochloromethane	ND		1.00	ug/L			07/03/14 14:01	1
Bromodichloromethane	ND		1.00	ug/L			07/03/14 14:01	1
Bromoform	ND		1.00	ug/L			07/03/14 14:01	1
Bromomethane	ND		1.00	ug/L			07/03/14 14:01	1
2-Butanone (MEK)	ND		50.0	ug/L			07/03/14 14:01	1
Carbon disulfide	ND		1.00	ug/L			07/03/14 14:01	1
Carbon tetrachloride	ND		1.00	ug/L			07/03/14 14:01	1
Chlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
Chlorodibromomethane	ND		1.00	ug/L			07/03/14 14:01	1
Chloroethane	ND		1.00	ug/L			07/03/14 14:01	1
Chloroform	ND		1.00	ug/L			07/03/14 14:01	1
Chloromethane	ND		1.00	ug/L			07/03/14 14:01	1
2-Chlorotoluene	ND		1.00	ug/L			07/03/14 14:01	1
4-Chlorotoluene	ND		1.00	ug/L			07/03/14 14:01	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			07/03/14 14:01	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			07/03/14 14:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			07/03/14 14:01	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			07/03/14 14:01	1
Dibromomethane	ND		1.00	ug/L			07/03/14 14:01	1
1,2-Dichlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,3-Dichlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,4-Dichlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
Dichlorodifluoromethane	ND		1.00	ug/L			07/03/14 14:01	1
1,1-Dichloroethane	ND		1.00	ug/L			07/03/14 14:01	1
1,2-Dichloroethane	ND		1.00	ug/L			07/03/14 14:01	1
1,1-Dichloroethene	ND		1.00	ug/L			07/03/14 14:01	1
1,2-Dichloropropane	ND *		1.00	ug/L			07/03/14 14:01	1
1,3-Dichloropropane	ND		1.00	ug/L			07/03/14 14:01	1
2,2-Dichloropropane	ND		1.00	ug/L			07/03/14 14:01	1
1,1-Dichloropropene	ND		1.00	ug/L			07/03/14 14:01	1
Ethylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
Hexachlorobutadiene	ND		2.00	ug/L			07/03/14 14:01	1
2-Hexanone	ND		10.0	ug/L			07/03/14 14:01	1
Isopropylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
Methylene Chloride	ND		5.00	ug/L			07/03/14 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			07/03/14 14:01	1
Methyl tert-butyl ether	ND		1.00	ug/L			07/03/14 14:01	1
Naphthalene	ND		5.00	ug/L			07/03/14 14:01	1
n-Butylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
N-Propylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
p-Isopropyltoluene	ND		1.00	ug/L			07/03/14 14:01	1
sec-Butylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
Styrene	ND		1.00	ug/L			07/03/14 14:01	1
tert-Butylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			07/03/14 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			07/03/14 14:01	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
 SDG: FMMD1003

Client Sample ID: DW16

Lab Sample ID: 490-56656-1

Date Collected: 07/01/14 10:15

Matrix: Ground Water

Date Received: 07/02/14 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			07/03/14 14:01	1
Toluene	ND		1.00	ug/L			07/03/14 14:01	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			07/03/14 14:01	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			07/03/14 14:01	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,1,1-Trichloroethane	ND		1.00	ug/L			07/03/14 14:01	1
1,1,2-Trichloroethane	ND		1.00	ug/L			07/03/14 14:01	1
Trichloroethene	ND		1.00	ug/L			07/03/14 14:01	1
Trichlorofluoromethane	ND		1.00	ug/L			07/03/14 14:01	1
1,2,3-Trichloropropane	ND		1.00	ug/L			07/03/14 14:01	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			07/03/14 14:01	1
Vinyl chloride	ND		1.00	ug/L			07/03/14 14:01	1
Xylenes, Total	ND		2.00	ug/L			07/03/14 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		07/03/14 14:01	1
Dibromofluoromethane (Surr)	95		70 - 130		07/03/14 14:01	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		07/03/14 14:01	1
Toluene-d8 (Surr)	107		70 - 130		07/03/14 14:01	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Acenaphthylene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Anthracene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Benzo[a]anthracene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Benzo[a]pyrene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Benzo[b]fluoranthene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Benzo[g,h,i]perylene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Benzo[k]fluoranthene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Bis(2-chloroethoxy)methane	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Bis(2-chloroethyl)ether	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
bis (2-chloroisopropyl) ether	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Bis(2-ethylhexyl) phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Bromophenyl phenyl ether	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Butyl benzyl phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Carbazole	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Chloroaniline	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Chloro-3-methylphenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Chloronaphthalene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Chlorophenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Chlorophenyl phenyl ether	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Chrysene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Cresols	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Dibenz(a,h)anthracene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Dibenzofuran	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
1,2-Dichlorobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
1,3-Dichlorobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1

TestAmerica Nashville

Client Sample Results

Client: Greene Environmental Services LLC
 Project/Site: Meadows of Dan Food Market

TestAmerica Job ID: 490-56656-1
 SDG: FMMD1003

Client Sample ID: DW16

Lab Sample ID: 490-56656-1

Date Collected: 07/01/14 10:15

Matrix: Ground Water

Date Received: 07/02/14 10:15

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
3,3'-Dichlorobenzidine	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4-Dichlorophenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Diethyl phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4-Dimethylphenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Dimethyl phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Di-n-butyl phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4,6-Dinitro-2-methylphenol	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4-Dinitrophenol	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4-Dinitrotoluene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,6-Dinitrotoluene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Di-n-octyl phthalate	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Fluoranthene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Fluorene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Hexachlorobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Hexachlorobutadiene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Hexachlorocyclopentadiene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Hexachloroethane	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Indeno[1,2,3-cd]pyrene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Isophorone	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
1-Methylnaphthalene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Methylnaphthalene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Methylphenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
3 & 4 Methylphenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Naphthalene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Nitroaniline	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
3-Nitroaniline	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Nitroaniline	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
Nitrobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2-Nitrophenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
4-Nitrophenol	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
N-Nitrosodi-n-propylamine	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Pentachlorophenol	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
Phenanthrene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
Phenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
Pyrene	ND		1.92	ug/L		07/05/14 15:10	07/06/14 17:06	1
1,2,4-Trichlorobenzene	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4,5-Trichlorophenol	ND		24.0	ug/L		07/05/14 15:10	07/06/14 17:06	1
2,4,6-Trichlorophenol	ND		9.62	ug/L		07/05/14 15:10	07/06/14 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		29 - 120	07/05/14 15:10	07/06/14 17:06	1
2-Fluorophenol (Surr)	48		10 - 120	07/05/14 15:10	07/06/14 17:06	1
Nitrobenzene-d5 (Surr)	91		27 - 120	07/05/14 15:10	07/06/14 17:06	1
Phenol-d5 (Surr)	31		10 - 120	07/05/14 15:10	07/06/14 17:06	1
Terphenyl-d14 (Surr)	76		13 - 120	07/05/14 15:10	07/06/14 17:06	1
2,4,6-Tribromophenol (Surr)	76		10 - 120	07/05/14 15:10	07/06/14 17:06	1

TestAmerica Nashville

COOLER RECEIPT FORM



490-56656 Chain of Custody

Cooler Received/Opened On 7/2/2014 @ 0815

1. Tracking # 2885 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 2.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

Login Sample Receipt Checklist

Client: Greene Environmental Services LLC

Job Number: 490-56656-1

SDG Number: FMMD1003

Login Number: 56656

List Number: 1

Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX E

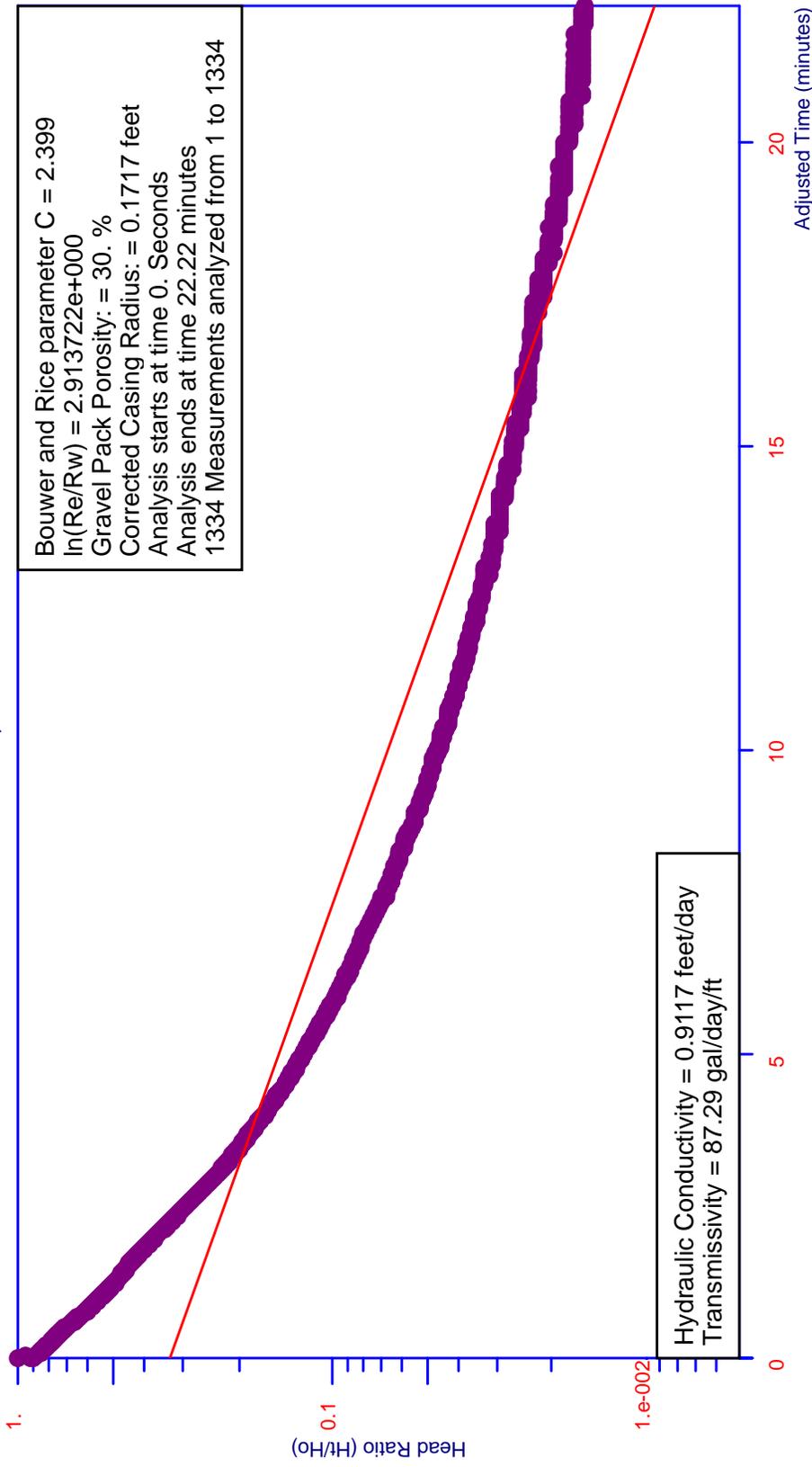
Aquifer Characterization

Super SlugTM Pump-Down Tests

Rising Head Slug Test June 13, 2014

Meadows of Dan Food Mart Meadows of Dan, VA

Bouwer and Rice Graph MW06



Project Number: FMMD1003 for T&M, M of D, LLC
Analysis by Starpoint Software

Rising Head Slug Test

Site Name: Meadows of Dan Food Mart
 Location: Meadows of Dan, VA
 Test Date: June 13, 2014
 Client: T&M, M of D, LLC
 Project Number: FMMD1003
 Import File: C:\Users\Adam\Documents\Greene Environmental\Meadows of Dan Food Market\FM

Well Label: MW06
 Aquifer Thickness: 12.8 feet
 Screen Length: 25. feet
 Casing Radius: 8.33e-002 feet
 Effective Radius: 0.2865 feet
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 0.1717 feet
 Static Water Level: 30.73 feet
 Water Table to Screen Bottom: 14.32 feet
 Anisotropy Ratio: 1.
 Time Adjustment: 0. Seconds

Test starts with trial 0

There are 1334 time and drawdown measurements

Maximum head is 7.242 feet

Minimum head is 0. feet

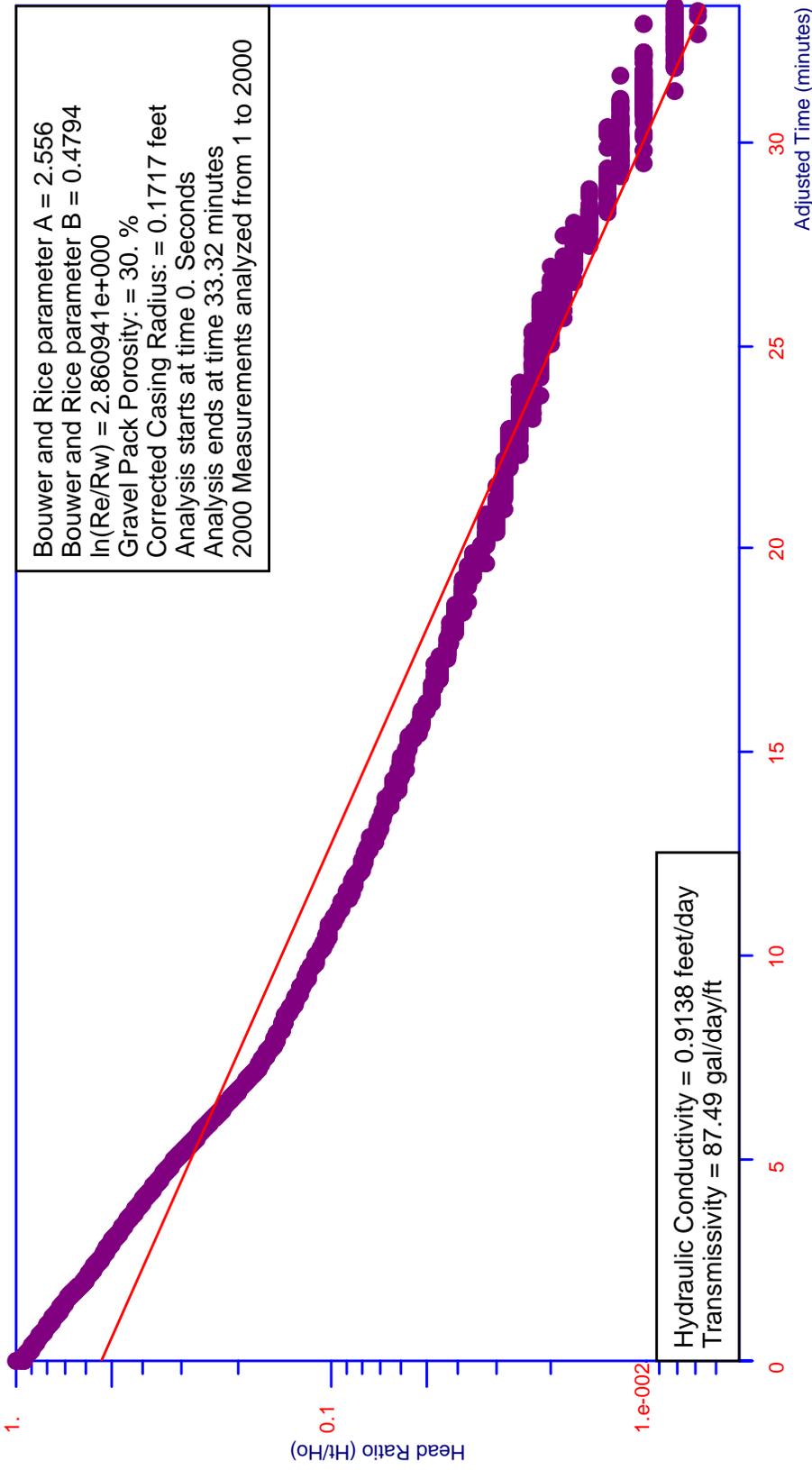
Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	37.97	7.242	1.
2	1.	1.	37.44	6.706	0.926
3	2.	2.	37.26	6.532	0.902
4	3.	3.	37.12	6.388	0.8821
5	4.	4.	37.05	6.323	0.8731
6	5.	5.	37.16	6.425	0.8872
7	6.	6.	37.05	6.323	0.8731
8	7.	7.	36.95	6.22	0.8559
9	8.	8.	36.85	6.122	0.8496
10	9.	9.	36.85	6.122	0.8453
11	10.	10.	36.79	6.063	0.8372
12	11.	11.	36.74	6.006	0.8293
13	12.	12.	36.69	5.96	0.823
14	13.	13.	36.66	5.925	0.8181
15	14.	14.	36.63	5.895	0.814
16	15.	15.	36.54	5.809	0.8021
17	16.	16.	36.5	5.766	0.7962
18	17.	17.	36.46	5.732	0.7915
19	18.	18.	36.42	5.69	0.7857
20	19.	19.	36.38	5.655	0.7809
21	20.	20.	36.34	5.613	0.7751
22	21.	21.	36.31	5.579	0.7704
23	22.	22.	36.27	5.537	0.7646
24	23.	23.	36.23	5.5	0.7595
25	24.	24.	36.19	5.46	0.7539
26	25.	25.	36.15	5.42	0.7484
27	26.	26.	36.11	5.38	0.7429
28	27.	27.	36.06	5.334	0.7365
29	28.	28.	36.02	5.292	0.7307
30	29.	29.	35.97	5.242	0.7238
31	30.	30.	35.93	5.196	0.7175

Due to data being collected in one (1) second increments, the data presented is only a partial amount recorded by the submersible data logger. The complete data set recorded by the data logger has been retained in-house and will be provided upon request.

Rising Head Slug Test June 13, 2014

Meadows of Dan Food Mart Meadows of Dan, VA

Bouwer and Rice Graph MW17



Bouwer and Rice parameter A = 2.556
Bouwer and Rice parameter B = 0.4794
 $\ln(Re/Rw) = 2.860941e+000$
Gravel Pack Porosity = 30. %
Corrected Casing Radius = 0.1717 feet
Analysis starts at time 0. Seconds
Analysis ends at time 33.32 minutes
2000 Measurements analyzed from 1 to 2000

Hydraulic Conductivity = 0.9138 feet/day
Transmissivity = 87.49 gal/day/ft

Project Number: FMMD1003 for T&M, M of D, LLC
Analysis by Starpoint Software

Ho is 3.068 feet at 0. Seconds

Rising Head Slug Test

Site Name: Meadows of Dan Food Mart
 Location: Meadows of Dan, VA
 Test Date: June 13, 2014
 Client: T&M, M of D, LLC
 Project Number: FMMD1003
 Import File: C:\Users\Adam\Documents\Greene Environmental\Meadows of Dan Food Market\FM

Well Label: MW17
 Aquifer Thickness: 12.8 feet
 Screen Length: 25. feet
 Casing Radius: 8.33e-002 feet
 Effective Radius: 0.2865 feet
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 0.1717 feet
 Static Water Level: 30.05 feet
 Water Table to Screen Bottom: 10.18 feet
 Anisotropy Ratio: 1.
 Time Adjustment: 0. Seconds

Test starts with trial 0

There are 2000 time and drawdown measurements

Maximum head is 3.068 feet

Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	33.12	3.068	1.
2	1.	1.	33.03	2.976	0.97
3	2.	2.	32.99	2.942	0.9589
4	3.	3.	32.98	2.927	0.954
5	4.	4.	32.97	2.912	0.9475
6	5.	5.	33.02	2.969	0.9677
7	6.	6.	33.07	2.972	0.9687
8	7.	7.	32.98	2.932	0.9591
9	8.	8.	32.95	2.895	0.9475
10	9.	9.	32.95	2.896	0.9439
11	10.	10.	32.94	2.89	0.942
12	11.	11.	32.93	2.881	0.939
13	12.	12.	32.94	2.886	0.9407
14	13.	13.	32.91	2.863	0.9332
15	14.	14.	32.9	2.848	0.9283
16	15.	15.	32.89	2.839	0.9254
17	16.	16.	32.88	2.829	0.9221
18	17.	17.	32.87	2.823	0.9201
19	18.	18.	32.85	2.798	0.912
20	19.	19.	32.84	2.787	0.9084
21	20.	20.	32.83	2.777	0.9051
22	21.	21.	32.82	2.768	0.9022
23	22.	22.	32.81	2.756	0.8983
24	23.	23.	32.8	2.752	0.897
25	24.	24.	32.78	2.733	0.8908
26	25.	25.	32.77	2.724	0.8879
27	26.	26.	32.77	2.718	0.8859
28	27.	27.	32.76	2.708	0.8827
29	28.	28.	32.75	2.699	0.8797
30	29.	29.	32.74	2.691	0.8771
31	30.	30.	32.73	2.682	0.8742

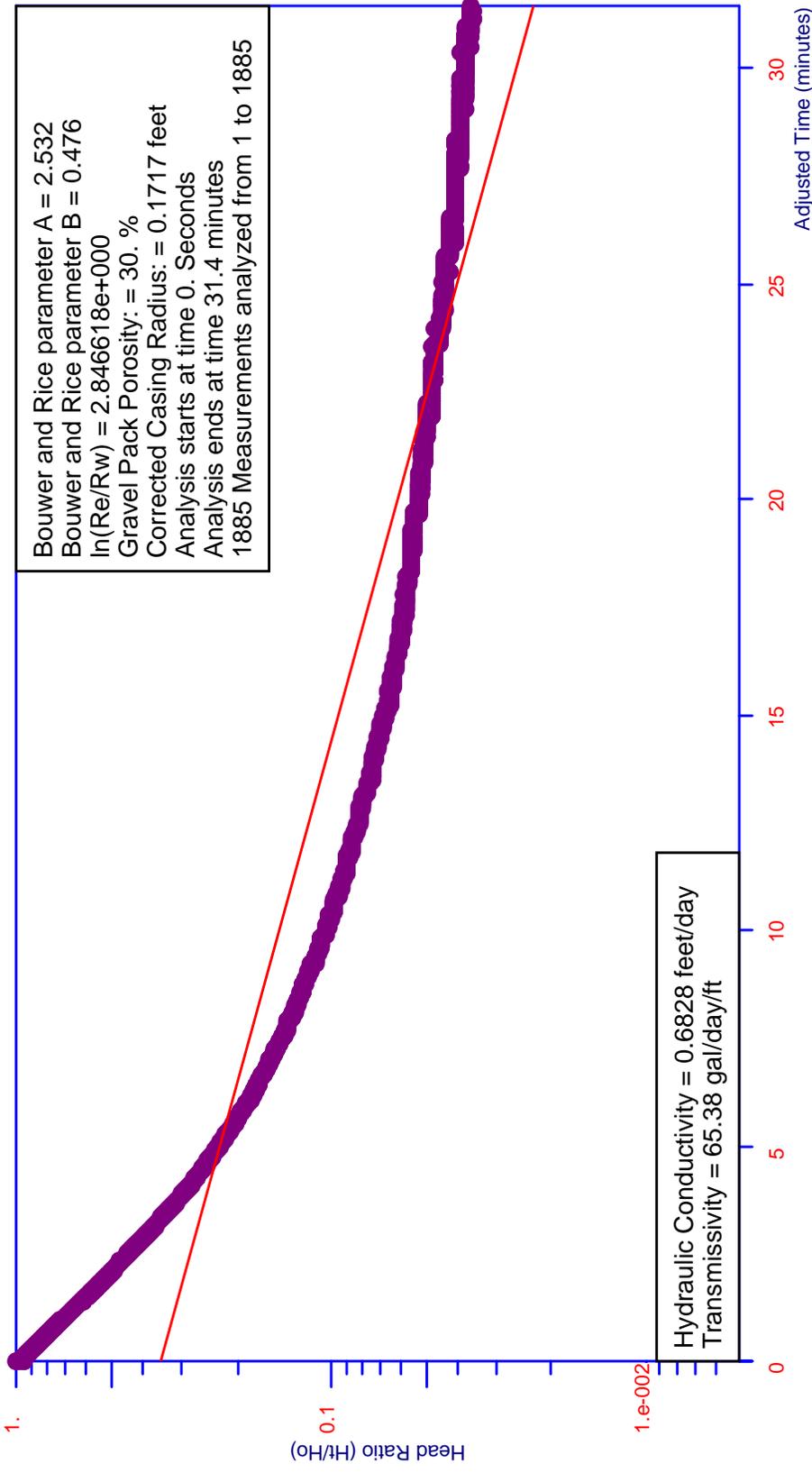
Due to data being collected in one (1) second increments, the data presented is only a partial amount recorded by the submersible data logger. The complete data set recorded by the data logger has been retained in-house and will be provided upon request.

Rising Head Slug Test June 13, 2014

Meadows of Dan Food Mart Meadows of Dan, VA

Bouwer and Rice Graph

MW18



Project Number: FMMD1003 for T&M, M of D, LLC
Analysis by Starpoint Software

Rising Head Slug Test

Site Name: Meadows of Dan Food Mart
 Location: Meadows of Dan, VA
 Test Date: June 13, 2014
 Client: T&M, M of D, LLC
 Project Number: FMMD1003
 Import File: C:\Users\Adam\Documents\Greene Environmental\Meadows of Dan Food Market\FM

Well Label: MW18
 Aquifer Thickness: 12.8 feet
 Screen Length: 25. feet
 Casing Radius: 8.33e-002 feet
 Effective Radius: 0.2865 feet
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 0.1717 feet
 Static Water Level: 33.85 feet
 Water Table to Screen Bottom: 9.98 feet
 Anisotropy Ratio: 1.
 Time Adjustment: 0. Seconds

Test starts with trial 0

There are 1885 time and drawdown measurements

Maximum head is 4.264 feet

Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	38.11	4.264	1.
2	1.	1.	38.07	4.222	0.9902
3	2.	2.	37.95	4.096	0.9606
4	3.	3.	37.91	4.065	0.9533
5	4.	4.	37.89	4.048	0.9484
6	5.	5.	38.02	4.18	0.9803
7	6.	6.	37.98	4.13	0.9686
8	7.	7.	37.94	4.09	0.9592
9	8.	8.	37.94	4.09	0.9493
10	9.	9.	37.87	4.023	0.9435
11	10.	10.	37.85	3.996	0.9376
12	11.	11.	37.83	3.977	0.9327
13	12.	12.	37.81	3.956	0.9278
14	13.	13.	37.78	3.926	0.9207
15	14.	14.	37.77	3.916	0.9184
16	15.	15.	37.74	3.891	0.9125
17	16.	16.	37.73	3.88	0.9099
18	17.	17.	37.7	3.849	0.9027
19	18.	18.	37.68	3.834	0.8992
20	19.	19.	37.67	3.82	0.8959
21	20.	20.	37.66	3.805	0.8924
22	21.	21.	37.63	3.78	0.8865
23	22.	22.	37.6	3.753	0.8802
24	23.	23.	37.58	3.734	0.8757
25	24.	24.	37.55	3.704	0.8687
26	25.	25.	37.54	3.688	0.8649
27	26.	26.	37.52	3.673	0.8614
28	27.	27.	37.5	3.652	0.8565
29	28.	28.	37.48	3.631	0.8515
30	29.	29.	37.47	3.615	0.8478
31	30.	30.	37.45	3.596	0.8433

Due to data being collected in one (1) second increments, the data presented is only a partial amount recorded by the submersible data logger. The complete data set recorded by the data logger has been retained in-house and will be provided upon request.

APPENDIX F

Soil Disposal Documentation

Non-Hazardous Materials Manifests – EVO Corporation
Certificates of Disposal – EVO Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

79403

GENERATOR INFORMATION

Generator: T&M, M of D, LLC

Phone: 540-381-5177

Site Address: 2609 Jeb Stuart Hwy

City/State: Meadows of Dan, VA

Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Soil

Empty Weight (lbs): _____

Contaminant: Gasoline

Net Weight (lbs): _____

Quantity

17

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 401

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 5/1/14

FACILITY INFORMATION

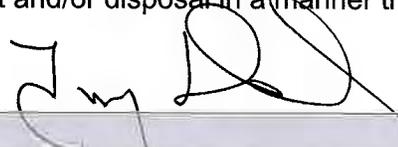
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 05-01-2014

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 17 drums of non-hazardous contaminated material received on 05/01/2014 from:

Generator: T&M, M of D, LLC

Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 051410

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

79402

GENERATOR INFORMATION

Generator: T&M, M of D, LLC

Phone: 540-381-5177

Site Address: 2609 Jeb Stuart Hwy

City/State: Meadows of Dan, VA

Contact: Audra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Soil

Empty Weight (lbs): _____

Contaminant: Gasoline

Net Weight (lbs): _____

Quantity

24

Tons

Drums

Pails

Sacs

Yards

Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: _____

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 5-8-14

FACILITY INFORMATION

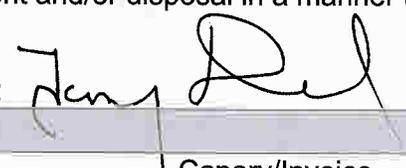
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 05-08-2014

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 24 drums of non-hazardous contaminated material received on 05/08/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA
EC Waste ID #: 051410

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

APPENDIX G

Liquid Disposal Documentation

Non-Hazardous Materials Manifest – EVO Corporation
Certificate of Disposal – EVO Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **73182**

GENERATOR INFORMATION

Generator: **T&M, M of D, LLC**

Phone: **540-381-5177**

Site Address: **2609 Jeb Stuart Hwy**

City/State: **Meadows of Dan, VA**

Contact: **Andra Weddle**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: **Wastewater**

Empty Weight (lbs): _____

Contaminant: **Gasoline**

Net Weight (lbs): _____

Quantity

375

Tons Drums Pails Sacs Yards **Other: Gal**

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**

Phone: **336-725-5844**

Truck #: **402**

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: **4/16/14**

FACILITY INFORMATION

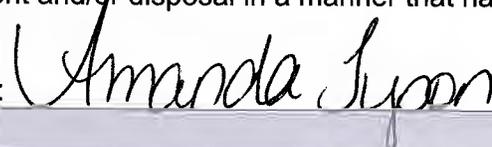
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: **021442**

Phone: **(336) 725-5844**

Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: **4/16/14**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 375 gallons of non-hazardous contaminated water received on 04/16/2014 from:

Generator: T&M, M of D, LLC

Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 021442

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **73193**

GENERATOR INFORMATION

Generator: T&M, M of D, LLC

Phone: 540-381-5177

Site Address: 2609 Jeb Stuart Hwy

City/State: Meadows of Dan, VA

Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Wastewater

Empty Weight (lbs): _____

Contaminant: Gasoline

Net Weight (lbs): _____

Quantity

350

Tons Drums Pails Sacs Yards Other 54

TRANSPORTER INFORMATION

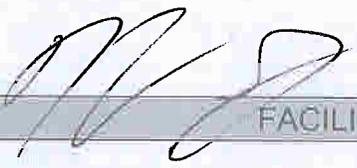
Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 402

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 4/25/14

FACILITY INFORMATION

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 021442

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 4/25/14

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 350 gallons of non-hazardous contaminated water received on 04/25/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 021442

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **73195**

GENERATOR INFORMATION

Generator: T&M, M of D, LLC

Phone: 540-381-5177

Site Address: 2609 Jeb Stuart Hwy

City/State: Meadows of Dan, VA

Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Water

Empty Weight (lbs): _____

Contaminant: Gasoline

Net Weight (lbs): _____

Quantity

300

Tons Drums Pails Sacs Yards Other: Gal

TRANSPORTER INFORMATION

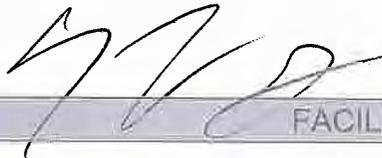
Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 402

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 5/2/14

FACILITY INFORMATION

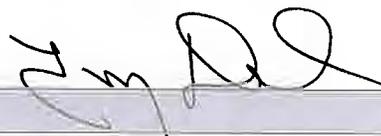
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 05-02-2014

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 300 gallons of non-hazardous contaminated water received on 05/02/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 051410

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **73196**

GENERATOR INFORMATION

Generator: T&M, M of D, LLC Phone: 540-381-5177
Site Address: 2609 Jeb Stuart Hwy
City/State: Meadows of Dan, VA Contact: Audra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: Wastewater
Empty Weight (lbs): _____ Contaminant: Gasoline
Net Weight (lbs): _____

Quantity

300

Tons Drums Pails Sacs Yards Other Gal

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 402 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [Signature]

Date: 5/7/14

FACILITY INFORMATION

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Amanda Lupon

Date: 5/7/14

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

79494

GENERATOR INFORMATION

Generator: T&M, M of D, LLC Phone: 540-381-5177

Site Address: 2609 Jeb Stuart Hwy

City/State: Meadows of Dan, VA Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: Wastewater

Empty Weight (lbs): _____ Contaminant: Gasoline

Net Weight (lbs): _____

Quantity

170

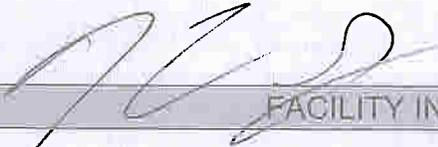
Tons Drums Pails Sacs Yards Other Gal

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 402 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date:

5/14/14

FACILITY INFORMATION

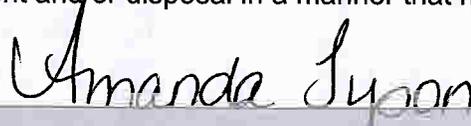
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date:

5/14/14

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 470 gallons of non-hazardous contaminated water received on 05/07/2014 and 05/14/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 051410

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **73198**

GENERATOR INFORMATION

Generator: T&M, M of D, LLC Phone: 540-381-5177
Site Address: 2609 Jeb Stuart Hwy
City/State: Meadows of Dan, VA Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: Wastewater
Empty Weight (lbs): _____ Contaminant: Gasoline
Net Weight (lbs): _____

Quantity

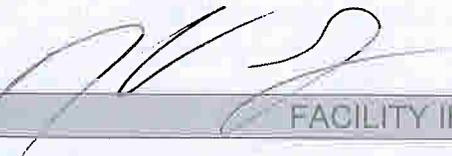
270

Tons Drums Pails Sacs Yards Other Sc

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 402 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 5/23/14

FACILITY INFORMATION

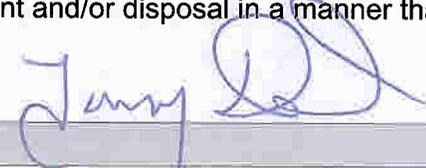
EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 051410

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 05-23-2014

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 270 gallons of non-hazardous contaminated water received on 05/23/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 051410

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No.

79578

GENERATOR INFORMATION

Generator: T&M, M of D, LLC Phone: 540-381-5177
Site Address: 2609 Jeb Stuart Hwy
City/State: Meadows of Dan, VA Contact: Andra Weddle

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: Wastewater
Empty Weight (lbs): _____ Contaminant: Gasoline
Net Weight (lbs): _____

Quantity

175

Tons Drums Pails Sacs Yards (Other) Ex

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 402 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature:

Handwritten Signature

Date: 06-6-14

FACILITY INFORMATION

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: 061413

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature:

Handwritten Signature

Date:

6/10/14

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 175 gallons of non-hazardous contaminated water received on 06/06/2014 from:

Generator: T&M, M of D, LLC

Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA

EC Waste ID #: 061413

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **71704**

GENERATOR INFORMATION

Generator: **T&M, M of D, LLC**
Site Address: **2609 Jeb Stuart Hwy**
City/State: **Meadows of Dan, VA**

Phone: **540-381-5177**
Contact: **Audra Weddle**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____ Material: **Soil**
Empty Weight (lbs): _____ Contaminant: **Gasoline**
Net Weight (lbs): _____

Quantity

325

Tons Drums Pails Sacs Yards **(Other) 5/1**

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**
Truck #: **402**

Phone: **336-725-5844**
Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: **6/13/14**

FACILITY INFORMATION

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: **061413**
Phone: **(336) 725-5844**
Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: **6/13/14**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **71722**

GENERATOR INFORMATION

Generator: **T&M, M of D, LLC**

Phone: **540-381-5177**

Site Address: **2609 Jeb Stuart Hwy**

City/State: **Meadows of Dan, VA**

Contact: **Audra Weddle**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: **Wastewater**

Empty Weight (lbs): _____

Contaminant: **Gasoline**

Net Weight (lbs): _____

Quantity

160

Tons Drums Pails Sacs Yards

Other: **gallons**

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**

Phone: **336-725-5844**

Truck #: **402**

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: **T. L. Myers**

Date: **6-18-14**

FACILITY INFORMATION

Evo Project #: **061413**

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: **(336) 725-5844**

Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: **Amanda Supon** Date: **6/18/14**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 485 gallons of non-hazardous contaminated water received on 06/13/2014 and 06/18/2014 from:

Generator: T&M, M of D, LLC
Originating at: 2609 Jeb Stuart Hwy.
Meadows of Dan, VA
EC Waste ID #: 061413

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **72573**

GENERATOR INFORMATION

Generator: **T&M, M of D, LLC**
Site Address: **2609 Jeb Stuart Hwy**
Meadows of Dan, VA
City/State: _____

Phone: **540-381-5177**
Contact: **Andra Weddle**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____
Empty Weight (lbs): _____
Net Weight (lbs): _____

Material: **Wastewater**
Gasoline
Contaminant: _____

Quantity

300

Tons Drums Pails Sacs Yards Other: **601**

TRANSPORTER INFORMATION

Transporter: **Evo Corporation**
Truck #: **402**

Phone: **336-725-5844**
Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: **Harley Adolair**

Date: **06/25/14**

FACILITY INFORMATION

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Evo Project #: **061413**
Phone: **(336) 725-5844**
Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: **[Signature]**

Date: **06-25-2014**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

APPENDIX H

Associated Documents

VA DEQ Letter Dated April 28, 2014
Site Access Agreements
Interim Authorization Request Letter Dated June 5, 2014
VA DEQ Letter Dated June 11, 2014



COMMONWEALTH of VIRGINIA

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
www.deq.virginia.gov

David K. Paylor
Director

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

April 28, 2014

T&M, M of D, L.L.C.
c/o Ms. Audra Weddle
P. O. Box 709
Riner, Virginia 24149

RE: Activity Authorization, SCRA, Petroleum Release Investigation, Meadows of Dan Food Market,
2609 Jeb Stuart Highway, Meadow of Dan, Patrick County, Virginia, PC 2014-2256

Dear Ms. Weddle:

The staff has reviewed the subject Petroleum Cleanup Activity Authorization Form as submitted by Greene Environmental Services, LLC. The activities identified on the form are deemed to be reasonable and have been approved. Enclosed, please find the form with original signature of approval. A copy of the approved form has been sent to Greene Environmental Services, LLC.

Once the activities identified on the form have been completed you should complete the third column and return it to this office. At that time you may file a claim for reimbursement for those activities from the Virginia Underground Petroleum Storage Tank Fund. Claims are to be filed in accordance with the procedures provided in the Guidance Manual, Reimbursement Claim Process for The Virginia Petroleum Storage Tank Fund. A copy of the Manual is available from the DEQ web-page.

Should you have any questions concerning these procedures please contact me at this office, (540) 562-6796.

Sincerely,

A handwritten signature in black ink, appearing to read 'Douglas B. Carl'.

Douglas B. Carl
Remediation Specialist

Enclosure: AAF

cc: Trev Greene, Greene Environmental Services, LLC (w enclosure, electronic copy)
File (PC 2014-2256) (w enclosure)



Ms. Nancy Galli
Nancy's Candy Company
2684 Jeb Stuart Highway
Meadows of Dan, VA 24120

April 17, 2014

RE: Site Access Agreement – 2684 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to determine the potential risk to human health and the environment, the Virginia Department of Environmental Quality (VA DEQ) is requesting a limited investigation of environmental contamination caused by a petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following site and groundwater investigation activities on your property addressed as 2684 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

1. Install soil boring(s) and monitoring well(s) within the borders of your property.
2. Install 8-inch well covers over any monitoring wells.
2. Conduct routine monitoring and sampling activities following well installation.
3. Upon closure of Pollution Complaint (PC) #2014-2256, Greene will remove any well covers and resurface the disturbed areas to match the surrounding surfacing.

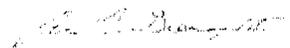
Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (tgreene@greene-environmental.com).

Site Access Agreement
2684 Job Stuart Highway, Meadows of Dan, VA
Page 2

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,



Arthur T. Greene, III
Owner

By my signature below, I represent that as an authorized representative of the owner of 2684 Job Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Jessica B Sturm
Signature

4-21-14
Date

Jessica B Sturm, PRESIDENT
Printed Name & Title

GREENE
ENVIRONMENTAL SERVICES LLC
200 Buckwheat Lane, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381
www.greene-environmental.com

Mr. Craig Alderman
Former Mountain House Restaurant
2639 Jeb Stuart Highway
Meadows of Dan, VA 24120

April 17, 2014

RE: Site Access Agreement – 2639 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to determine the potential risk to human health and the environment, the Virginia Department of Environmental Quality (VA DEQ) is requesting a limited investigation of environmental contamination caused by a petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following site and groundwater investigation activities on your property addressed as 2639 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

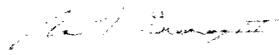
1. Install soil boring(s) and monitoring well(s) within the borders of your property.
2. Install 8-inch well covers over any monitoring wells.
2. Conduct routine monitoring and sampling activities following well installation.
3. Upon closure of Pollution Complaint (PC) #2014-2256, Greene will remove any well covers and resurface the disturbed areas to match the surrounding surfacing.

Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (tgreene@greene-environmental.com).

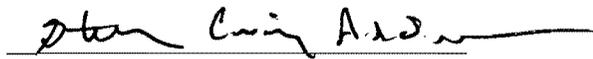
Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,



Arthur T. Greene, III
Owner

By my signature below, I represent that as an authorized representative of the owner of 2639 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.



Signature

4-24-14

Date

Steven Craig Alderman
owner

Printed Name & Title

GREENE

ENVIRONMENTAL SERVICES LLC

200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381

www.greene-environmental.com

Mr. & Mrs. Stimely
Meadows Mercantile
2577 Jeb Stuart Highway
Meadows of Dan, VA 24120

April 25, 2014

RE: Site Access Agreement – 2577 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to determine the potential risk to human health and the environment, the Virginia Department of Environmental Quality (VA DEQ) is requesting a limited investigation of environmental contamination caused by a petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following site and groundwater investigation activities on your property addressed as 2577 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

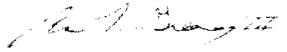
1. Install soil boring(s) and monitoring well(s) within the borders of your property.
2. Install 8-inch well covers over any monitoring wells.
2. Conduct routine monitoring and sampling activities following well installation.
3. Upon closure of Pollution Complaint (PC) #2014-2256, Greene will remove any well covers and resurface the disturbed areas to match the surrounding surfacing.

Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (tgreene@greene-environmental.com).

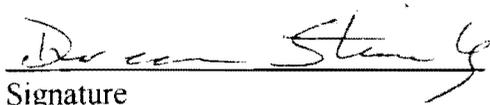
Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,



Arthur T. Greene, III
Owner

By my signature below, I represent that as an authorized representative of the owner of 2577 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.


Signature

5/1/14
Date

Debra Stinebaugh
Printed Name & Title



ENVIRONMENTAL SERVICES LLC.

200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381

www.greene-environmental.com

Ms. Felecia Shelor
Poor Farmer's Market
2616 Jeb Stuart Highway
Meadows of Dan, VA 24120

April 17, 2014

RE: Site Access Agreement – 2616 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to determine the potential risk to human health and the environment, the Virginia Department of Environmental Quality (VA DEQ) is requesting a limited investigation of environmental contamination caused by a petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following site and groundwater investigation activities on your property addressed as 2616 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

1. Install soil boring(s) and monitoring well(s) within the borders of your property.
2. Install 8-inch well covers over any monitoring wells.
2. Conduct routine monitoring and sampling activities following well installation.
3. Upon closure of Pollution Complaint (PC) #2014-2256, Greene will remove any well covers and resurface the disturbed areas to match the surrounding surfacing.

Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (tgreene@greene-environmental.com).

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,

Arthur T. Greene, III
Owner

By my signature below, I represent that as an authorized representative of the owner of 2616 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Alicia Sheler
Signature

4-25-14
Date

Alicia Sheler - Owner
Printed Name & Title

GREENE

ENVIRONMENTAL SERVICES, LLC

200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381

www.greene-environmental.com

Ms. Felecia Shelor
Jane's Country Café
2588 Jeb Stuart Highway
Meadows of Dan, VA 24120

April 17, 2014

RE: Site Access Agreement – 2588 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to determine the potential risk to human health and the environment, the Virginia Department of Environmental Quality (VA DEQ) is requesting a limited investigation of environmental contamination caused by a petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following site and groundwater investigation activities on your property addressed as 2588 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

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Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,

Arthur T. Greene, III
Owner

By my signature below, I represent that as an authorized representative of the owner of 2588 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Felecia Sheker
Signature

4-25-14
Date

Felecia Sheker - Owner
Printed Name & Title



Mr. Douglas B. Carl
Department of Environmental Quality
Blue Ridge Regional Office - Roanoke
3019 Peters Creek Road
Roanoke, Virginia 24019

June 5, 2014

RE: Interim Authorization Request– Meadows of Dan Food Market - PC#2014-2256

Mr. Carl,

At your request, Greene Environmental Services, LLC (Greene) is currently conducting Site Characterization Addendum activities at the Meadows of Dan Food Market Facility located at 2609 Jeb Stuart Highway in Meadows of Dan, Virginia. Substantial characterization of the gasoline contamination at the site has been performed as evidenced by the installation a 19 groundwater monitoring wells during two phases of Site Characterization. The bulk of the free product plume has been characterized but proper characterization of the dissolved phase plume is expected to require one (1) to two (2) additional Site Characterization Addenda.

Based on the current understanding of the release, the eventual transition of the site into Correction Action Plan Implementation is fully expected. On behalf of our client, T&M, M of D, LLC, Greene requests Interim Authorization to move forward with corrective actions prior to full completion of Site Characterization activities thus expediting the ensuing Corrective Action Plan Implementation process. Under Interim Authorization, Greene proposes to complete characterization of the free phase plume, prepare the site for long term utilization of an appropriate remediation technology, and conduct a pilot study in order to determine the most appropriate remediation technology.

Specific work will include:

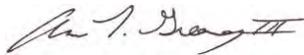
1. Install three (3) to five (5) additional monitoring/recovery wells in proximity to the free phase plume.
2. Install vaults at seven (7) to twelve (12) of the monitoring wells as determined by the free phase plume.

3. Work with the client to determine an appropriate location for the remediation equipment.
4. Install the necessary buried lines between the well vaults and the proposed location of the remediation equipment.
5. Repair surfacing materials disturbed during site preparation activities.
6. Conduct a Dual Phase Extraction (DPE) pilot study to determine technology effectiveness and collect necessary data for the preparation of applicable discharge permit applications.

During this process, we will continue with our approximately weekly free product recovery events as necessary and will continue with the appropriate progression through Site Characterization Addenda. Upon completion of the Site Characterization Phase, Greene will incorporate the corrective actions performed under Interim Authorization into the site's Corrective Action Plan.

An Activity Authorization Form (AAF) listing the appropriate labor and materials to complete corrective actions under Interim Authorization will be completed and submitted to your office upon approval of this request. Thank you for your consideration in this matter and please do not hesitate to contact me should you need any further information.

Sincerely,



Arthur T. Greene, III
Project Manager

cc: Ms. Audra Weddle – T&M, M of D, LLC (via email)



COMMONWEALTH of VIRGINIA

Douglas W. Domenech
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
www.deq.virginia.gov

David K. Paylor
Director

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

June 11, 2014

T&M, M of D, L.L.C.
c/o Ms. Audra Weddle
P. O. Box 709
Riner, Virginia 24149

RE: Interim Authorization for Corrective Action, Meadows of Dan Food Market, 2609 Jeb Stuart Highway, Meadow of Dan, Patrick County, Virginia, PC 2014-2256

Dear Ms. Weddle:

The staff of DEQ's Blue Ridge Regional Office has reviewed the request to conduct Corrective Action at the subject site under Interim Authorization as submitted by Greene Environmental Services, LLC on June 5, 2014. Based on the information provided, you are hereby authorized to implement corrective action at the site as set forth in the Interim Authorization request. The Corrective Action is to further characterize free phase gasoline in the subsurface and to install remediation equipment for recovery of such gasoline.

This letter serves as a permit authorizing you to install the remediation system described in the Interim Authorization request and to conduct a pilot study of this remediation technology. All free phase petroleum and ground water generated by the recovery process must be properly disposed. You will need to register for a General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges from Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic tests. All work must be performed in accordance with permits or requests from local authorities.

The remediation facilities described in the request should be installed and operational by **September 16, 2014** (90 days). Quarterly CAP monitoring reports must be submitted to this office before the 20th day of the month following a calendar quarter of activities.

T&M, M of D, L.L.C.
c/o Ms. Audra Weddle
Page 2

The Virginia Petroleum Storage Tank Fund (VPSTF) has established procedures for financial reimbursement of authorized corrective action activities. To ensure eligibility for reimbursement from the VPSTF, it is necessary that activities be prior approved by the Regional Office. You or your consultant should fill out a Petroleum Cleanup Activity Authorization Form (AAF) for each appropriate task to complete the required activities. The completed form(s) should be sent to this office in order that prior authorization for this work may be provided. The first AAF for implementation of Corrective Action under Interim Authorization should be submitted by **July 16, 2014**. Current information concerning reimbursements is provided in the Guidance Manual, Reimbursement Claim Process for the Virginia Petroleum Storage Tank Fund and is available at the DEQ web-page.

Should you have any questions concerning the procedures for implementation of your CAP, please contact Douglas Carl, Remediation Specialist, at this office (540) 562-6796.

Sincerely,

A handwritten signature in blue ink that reads "David M. Miles". The signature is written in a cursive style.

David M. Miles C.P.G.
Ground Water Program Manager

Cc: Arthur T. Greene, Greene Environmental Services, LLC Greene Environmental Services, LLC (electronic copy, (tgreene@greene-environmental.com))

APPENDIX I

Fate & Transport Modeling

BIOSCREEN Modeling Input Data & Graphical Representations

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity* Vs (ft/yr) or (cm/sec)

Hydraulic Conductivity K (ft/ft) or (-)

2. DISPERSION

Longitudinal Dispersion* alpha x (ft)

Transverse Dispersion* alpha y (ft)

Vertical Dispersion* alpha z (ft) or (ft)

Estimated Plume Length Lp (ft)

3. ADSORPTION

Retardation Factor* R (-) or (kg/l)

Soil Bulk Density rho (L/kg) or (-)

4. BIODEGRADATION

1st Order Decay Coeff* lambda (per yr) or (year)

Solute Half-Life t-half (year)

or Instantaneous Reaction Model

Delta Oxygen* DO (mg/L)

Delta Nitrate* NO3 (mg/L)

Observed Ferrous Iron* Fe2+ (mg/L)

Delta Sulfate* SO4 (mg/L)

Observed Methane* CH4 (mg/L)

Run Name: Meadows of Dan
FMMD1003 - Benzene

Modeled Area Length* (ft)

Modeled Area Width* (ft)

Simulation Time* (yr)

Data Input Instructions:

- Enter value directly ... or
 - Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Value calculated by model. (Don't enter any data).

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
67.5	9.31
0	0
0	0

Source Half-life (see Help):

Infinite (yr)

Inst. React. or (yr)

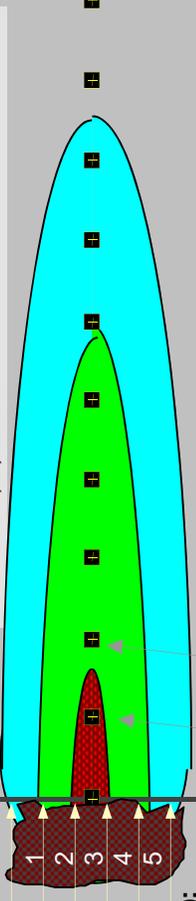
Soluble Mass In Source NAPL, Soil (Kg)

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)

Dist. from Source (ft)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

View Output

RUN ARRAY

View Output

Help

Recalculate

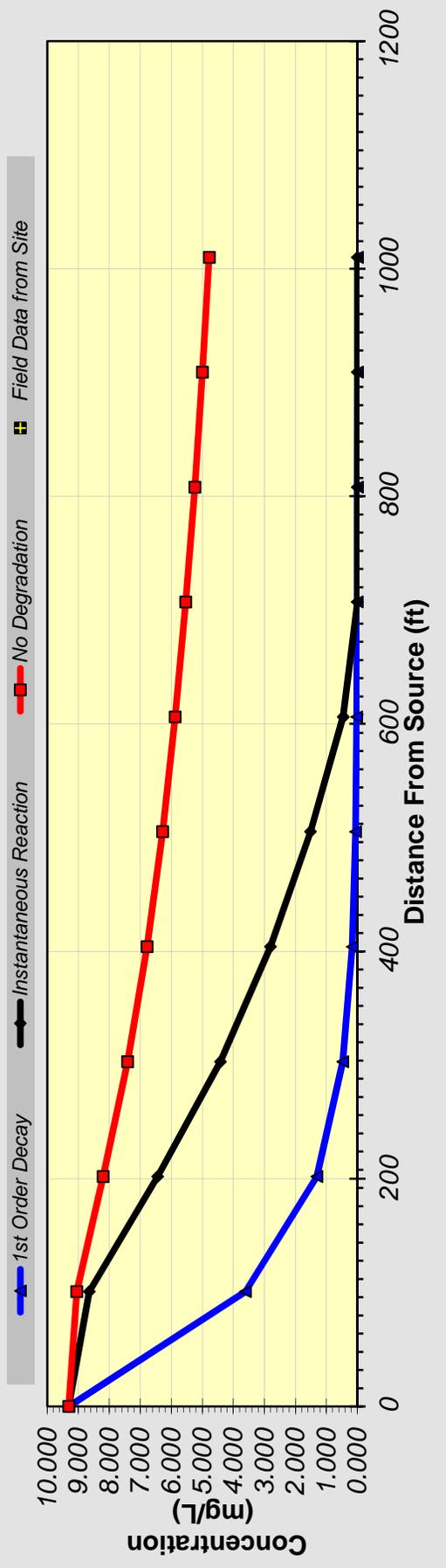
Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED BENZENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	101	202	303	404	505	606	707	808	909	1010
No Degradation	9.310	9.051	8.194	7.410	6.783	6.282	5.873	5.532	5.244	4.995	4.779
1st Order Decay	9.310	3.611	1.304	0.470	0.172	0.063	0.024	0.009	0.003	0.001	0.000
Inst. Reaction	9.310	8.643	6.437	4.418	2.805	1.514	0.461	0.000	0.000	0.000	0.000
Field Data from Site											



Time:

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity* Vs (ft/yr) or (cm/sec)

Hydraulic Conductivity K (ft/ft) or (-)

2. DISPERSION

Longitudinal Dispersion* alpha x (ft)

Transverse Dispersion* alpha y (ft)

Vertical Dispersion* alpha z (ft) or (ft)

Estimated Plume Length Lp (ft)

3. ADSORPTION

Retardation Factor* R (-) or (kg/l)

Soil Bulk Density rho (L/kg) or (-)

4. BIODEGRADATION

1st Order Decay Coeff* lambda (per yr) or (year)

Solute Half-Life t-half (year)

or Instantaneous Reaction Model

Delta Oxygen* DO (mg/L)

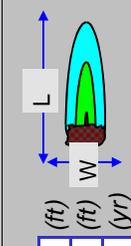
Delta Nitrate* NO3 (mg/L)

Observed Ferrous Iron* Fe2+ (mg/L)

Delta Sulfate* SO4 (mg/L)

Observed Methane* CH4 (mg/L)

Run Name: Meadows of Dan
FMMD1003 - Toluene



Modeled Area Length* (ft)

Modeled Area Width* (ft)

Simulation Time* (yr)

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
67.5	48.7
0	0
0	0

Source Half-life (see Help):

Infinite (yr)

Inst. React. or (yr)

Soluble Mass (Kg)

In Source NAPL, Soil

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)

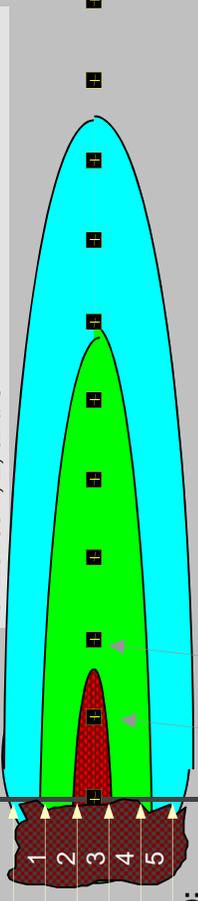
Dist. from Source (ft)

0	43	85	128	170	213	255	298	340	383	425
---	----	----	-----	-----	-----	-----	-----	-----	-----	-----

Data Input Instructions:

- Enter value directly ... or
 - Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Value calculated by model. (Don't enter any data).

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells if No Data Leave Blank or Enter "0"

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

Help

Recalculate

View Output

View Output

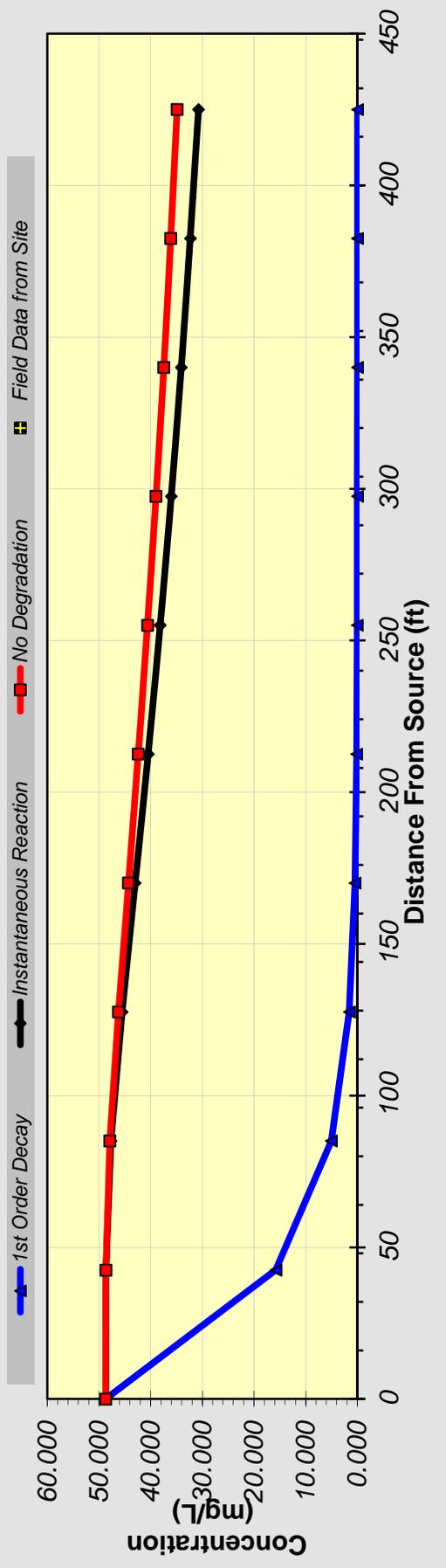
Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED TOLUENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	43	85	128	170	213	255	298	340	383	425
No Degradation	48.700	48.666	47.896	46.252	44.317	42.397	40.603	38.961	37.470	36.118	34.888
1st Order Decay	48.700	15.773	5.031	1.575	0.489	0.152	0.047	0.015	0.005	0.001	0.000
Inst. Reaction	48.700	48.656	47.655	45.515	42.998	40.500	38.165	36.029	34.090	32.331	30.732
Field Data from Site											



Time:

Calculate

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

1. HYDROGEOLOGY

Seepage Velocity* Vs (ft/yr)
 or (cm/sec)
 Hydraulic Conductivity K (ft/ft)
 Hydraulic Gradient i (-)
 Porosity n (-)

2. DISPERSION

Longitudinal Dispersion* alpha x (ft)
 Transverse Dispersion* alpha y (ft)
 Vertical Dispersion* alpha z (ft)
 or (ft)
 Estimated Plume Length Lp (ft)

3. ADSORPTION

Retardation Factor* R (-)
 or (kg/l)
 Soil Bulk Density rho (L/kg)
 Partition Coefficient Koc (-)
 Fraction Organic Carbon foc (-)

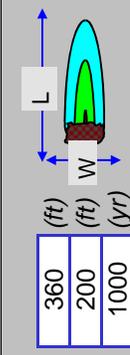
4. BIODEGRADATION

1st Order Decay Coeff* lambda (per yr)
 or (year)
 Solute Half-Life t-half (year)
or Instantaneous Reaction Model
 Delta Oxygen* DO (mg/L)
 Delta Nitrate* NO3 (mg/L)
 Observed Ferrous Iron* Fe2+ (mg/L)
 Delta Sulfate* SO4 (mg/L)
 Observed Methane* CH4 (mg/L)

Data Input Instructions:

1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Run Name: Meadows of Dan
 FMMD1003 - Ethylbenzene
 or
 Variable*
 Data used directly in model.
 Value calculated by model.
 (Don't enter any data).



6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
67.5	5.26
0	0
0	0

Source Half-life (see Help):

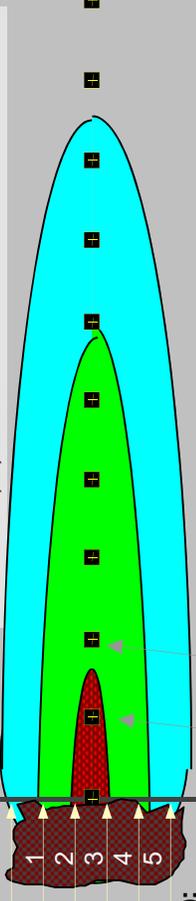
Infinite (yr)
 Inst. React. 1st Order
 Soluble Mass (Kg)
 In Source NAPL, Soil

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)
 Dist. from Source (ft)

0	36	72	108	144	180	216	252	288	324	360
---	----	----	-----	-----	-----	-----	-----	-----	-----	-----

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
 If No Data Leave Blank or Enter "0"

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

Help

Recalculate

View Output

Paste Example Dataset

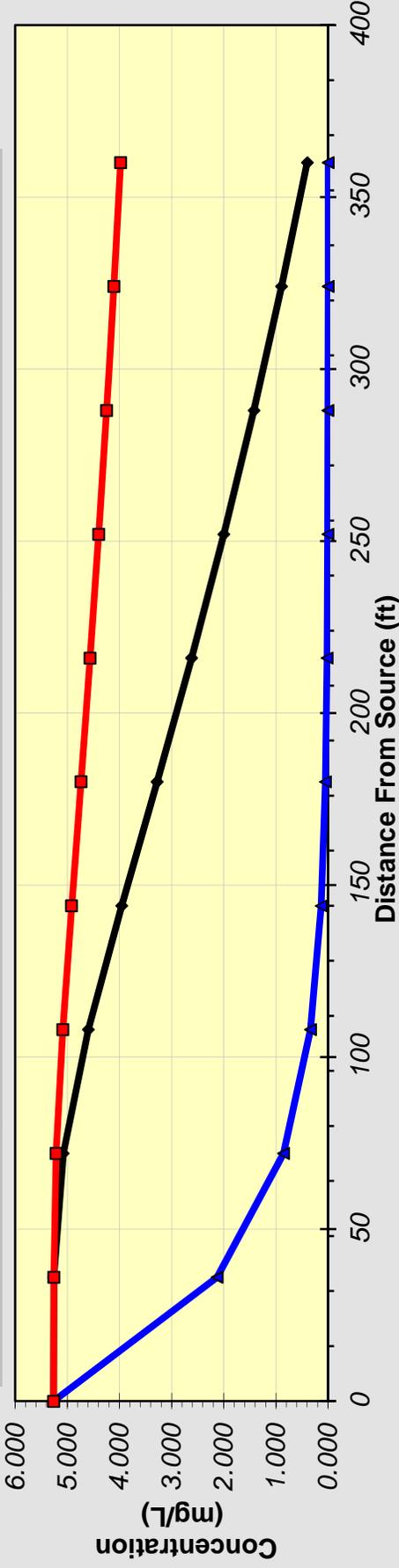
Restore Formulas for Vs,

DISSOLVED ETHYLBENZENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	36	72	108	144	180	216	252	288	324	360
No Degradation	5.260	5.259	5.212	5.084	4.916	4.737	4.563	4.399	4.246	4.106	3.977
1st Order Decay	5.260	2.129	0.855	0.338	0.132	0.052	0.020	0.008	0.003	0.001	0.000
Inst. Reaction	5.260	5.255	5.077	4.594	3.956	3.280	2.620	1.998	1.421	0.890	0.400
Field Data from Site											

▲ 1st Order Decay
 ◆ Instantaneous Reaction
 ■ No Degradation
 + Field Data from Site



Time:

Calculate

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	34.9 <small>(ft/yr)</small>
<i>or</i>		
Hydraulic Conductivity	K	3.0E-04 <small>(cm/sec)</small>
Hydraulic Gradient	i	0.0338 <small>(ft/ft)</small>
Porosity	n	0.3 <small>(-)</small>

2. DISPERSION

Longitudinal Dispersion*	alpha x	11.7 <small>(ft)</small>
Transverse Dispersion*	alpha y	1.2 <small>(ft)</small>
Vertical Dispersion*	alpha z	0.0 <small>(ft)</small>
<i>or</i>		
Estimated Plume Length	Lp	220 <small>(ft)</small>

3. ADSORPTION

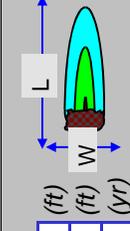
Retardation Factor*	R	1.0 <small>(-)</small>
<i>or</i>		
Soil Bulk Density	rho	1.7 <small>(kg/l)</small>
Partition Coefficient	Koc	38 <small>(L/kg)</small>
Fraction Organic Carbon	foc	5.7E-5 <small>(-)</small>

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-1 <small>(per yr)</small>
<i>or</i>		
Solute Half-Life	t-half	1.00 <small>(year)</small>
<i>Instantaneous Reaction Model</i>		
Delta Oxygen*	DO	1.65 <small>(mg/L)</small>
Delta Nitrate*	NO3	0.7 <small>(mg/L)</small>
Observed Ferrous Iron*	Fe2+	16.6 <small>(mg/L)</small>
Delta Sulfate*	SO4	22.4 <small>(mg/L)</small>
Observed Methane*	CH4	6.6 <small>(mg/L)</small>

Meadows of Dan
FMMD1003 - Xylenes

Run Name



Modeled Area Length*	625 <small>(ft)</small>
Modeled Area Width*	200 <small>(ft)</small>
Simulation Time*	1000 <small>(yr)</small>

6. SOURCE DATA

Source Thickness in Sat. Zone* 10 (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
67.5	29.4
0	0
0	0

Source Half-life (see Help):

Infinite	Infinite (yr)
Infinite	1st Order
Infinite	Infinite (Kg)

In Source NAPL, Soil

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)
Dist. from Source (ft)

0	63	125	188	250	313	375	438	500	563	625
---	----	-----	-----	-----	-----	-----	-----	-----	-----	-----

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

RUN ARRAY

Help

Recalculate

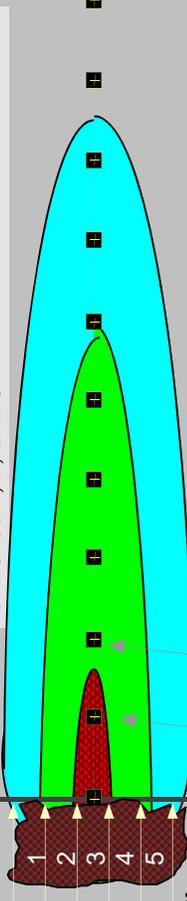
View Output

View Output

Paste Example Dataset

Restore Formulas for Vs,

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



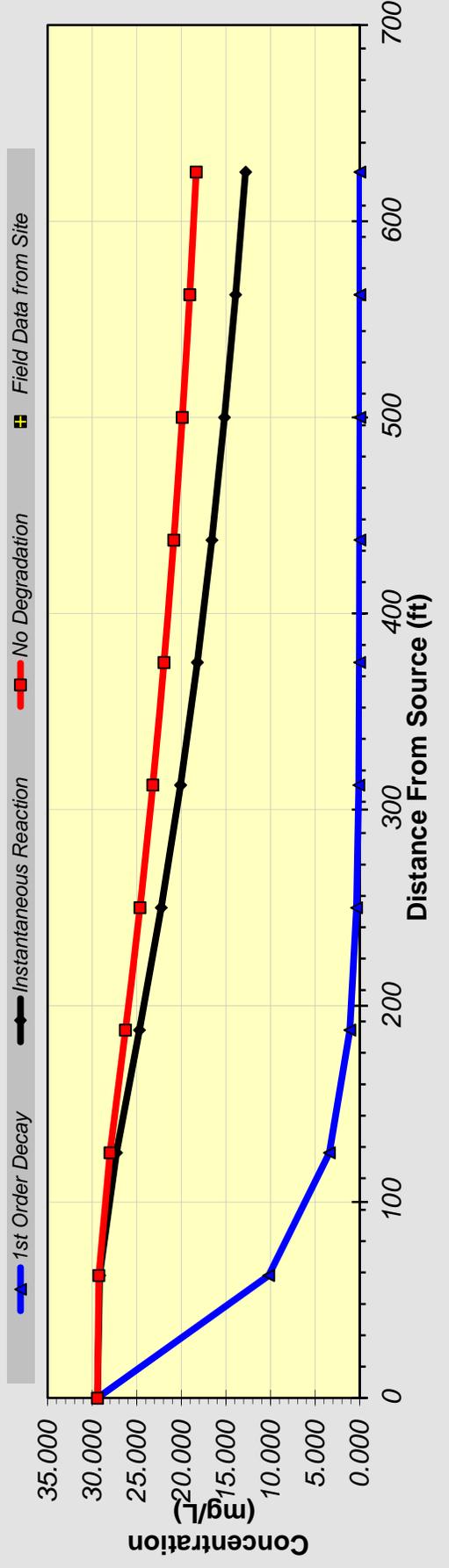
View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

DISSOLVED XYLENES CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	63	125	188	250	313	375	438	500	563	625
No Degradation	29.400	29.248	27.988	26.270	24.634	23.193	21.942	20.857	19.908	19.071	18.328
1st Order Decay	29.400	10.218	3.416	1.120	0.367	0.121	0.040	0.013	0.004	0.001	0.000
Inst. Reaction	29.400	29.172	27.284	24.710	22.258	20.098	18.224	16.597	15.175	13.922	12.809
Field Data from Site											



Time:

Calculate

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	34.9 <small>(ft/yr)</small>
<i>or</i>		
Hydraulic Conductivity	K	3.0E-04 <small>(cm/sec)</small>
Hydraulic Gradient	i	0.0338 <small>(ft/ft)</small>
Porosity	n	0.3 <small>(-)</small>

2. DISPERSION

Longitudinal Dispersion*	alpha x	11.7 <small>(ft)</small>
Transverse Dispersion*	alpha y	1.2 <small>(ft)</small>
Vertical Dispersion*	alpha z	0.0 <small>(ft)</small>
<i>or</i>		
Estimated Plume Length	Lp	220 <small>(ft)</small>

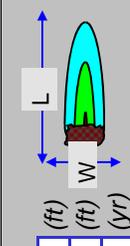
3. ADSORPTION

Retardation Factor*	R	1.0 <small>(-)</small>
<i>or</i>		
Soil Bulk Density	rho	1.7 <small>(kg/l)</small>
Partition Coefficient	Koc	38 <small>(L/kg)</small>
Fraction Organic Carbon	foc	5.7E-5 <small>(-)</small>

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1 <small>(per yr)</small>
<i>or</i>		
Solute Half-Life	t-half	2.00 <small>(year)</small>
<i>Instantaneous Reaction Model</i>		
Delta Oxygen*	DO	1.65 <small>(mg/L)</small>
Delta Nitrate*	NO3	0.7 <small>(mg/L)</small>
Observed Ferrous Iron*	Fe2+	16.6 <small>(mg/L)</small>
Delta Sulfate*	SO4	22.4 <small>(mg/L)</small>
Observed Methane*	CH4	6.6 <small>(mg/L)</small>

Run Name
Meadows of Dan
FMMD1003 - MTBE



Modeled Area Length*	1035 <small>(ft)</small>
Modeled Area Width*	200 <small>(ft)</small>
Simulation Time*	1000 <small>(Yr)</small>

6. SOURCE DATA

Source Thickness in Sat. Zone* 10 (ft)

Source Zones:	
Width* (ft)	Conc. (mg/L)*
67.5	11.7
0	0
0	0

Source Half-life (see Help):

Infinite	Infinite	(Yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL, Soil		

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	0	104	207	311	414	518	621	725	828	932	1035
Dist. from Source (ft)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

View Output

RUN ARRAY

View Output

Help

Recalculate

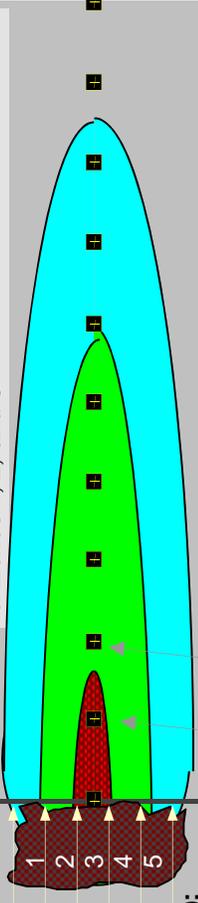
Paste Example Dataset

Restore Formulas for Vs,

Data Input Instructions:

- Enter value directly ... or
 - Calculate by filling in grey cells below. (To restore formulas, hit button below).
- Variable* → Data used directly in model.
Value calculated by model. (Don't enter any data).

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



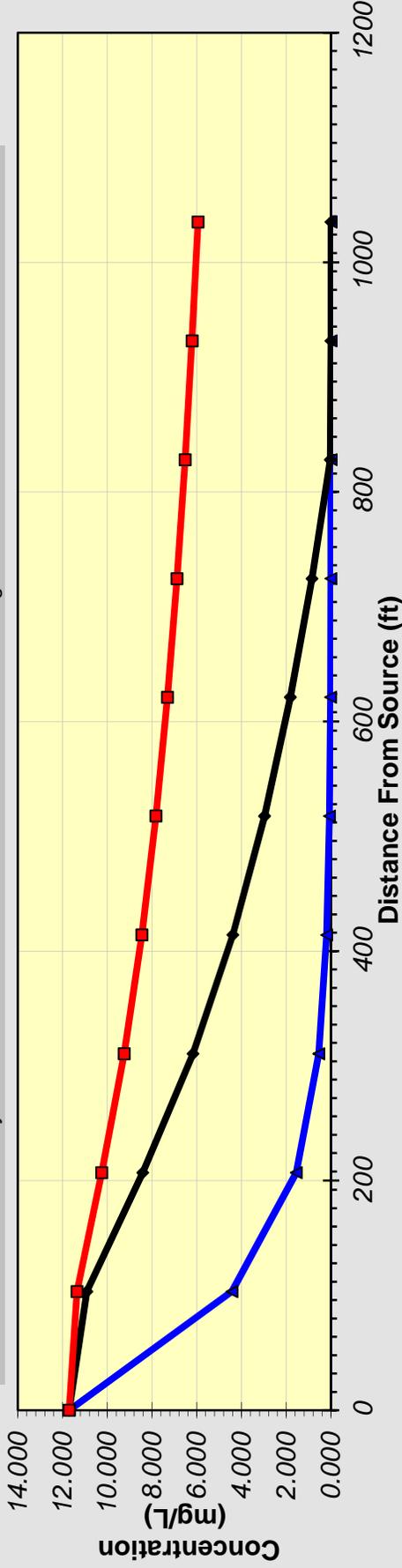
View of Plume Looking Down
Observed Centerline Concentrations at Monitoring Wells if No Data Leave Blank or Enter "0"

DISSOLVED MTBE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	104	207	311	414	518	621	725	828	932	1035
No Degradation	11.700	11.351	10.244	9.247	8.456	7.825	7.312	6.885	6.524	6.214	5.943
1st Order Decay	11.700	4.427	1.558	0.548	0.196	0.071	0.026	0.009	0.003	0.001	0.000
Inst. Reaction	11.700	10.915	8.420	6.174	4.391	2.971	1.815	0.854	0.040	0.000	0.000
Field Data from Site											

▲ 1st Order Decay
 ● Instantaneous Reaction
 ■ No Degradation
 ■ Field Data from Site



Time:

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence
Version 1.4

1. HYDROGEOLOGY

Seepage Velocity*	Vs	34.9 <small>(ft/yr)</small>
or		
Hydraulic Conductivity	K	3.0E-04 <small>(cm/sec)</small>
Hydraulic Gradient	i	0.0338 <small>(ft/ft)</small>
Porosity	n	0.3 <small>(-)</small>

2. DISPERSION

Longitudinal Dispersion*	alpha x	11.7 <small>(ft)</small>
Transverse Dispersion*	alpha y	1.2 <small>(ft)</small>
Vertical Dispersion*	alpha z	0.0 <small>(ft)</small>
or		
Estimated Plume Length	Lp	220 <small>(ft)</small>

3. ADSORPTION

Retardation Factor*	R	1.0 <small>(-)</small>
or		
Soil Bulk Density	rho	1.7 <small>(kg/l)</small>
Partition Coefficient	Koc	38 <small>(L/kg)</small>
Fraction Organic Carbon	foc	5.7E-5 <small>(-)</small>

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	9.8E-1 <small>(per yr)</small>
or		
Solute Half-Life	t-half	0.71 <small>(year)</small>
or Instantaneous Reaction Model		
Delta Oxygen*	DO	1.65 <small>(mg/L)</small>
Delta Nitrate*	NO3	0.7 <small>(mg/L)</small>
Observed Ferrous Iron*	Fe2+	16.6 <small>(mg/L)</small>
Delta Sulfate*	SO4	22.4 <small>(mg/L)</small>
Observed Methane*	CH4	6.6 <small>(mg/L)</small>

Data Input Instructions:

1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Run Name: Meadows of Dan
FMMD1003 - Naphthalene

Variable* Value calculated by model. (Don't enter any data).

Model Area Length* (ft)

Model Area Width* (ft)

Simulation Time* (yr)

6. SOURCE DATA

Source Thickness in Sat. Zone* (ft)

Source Zones:

Width* (ft)	Conc. (mg/L)*
67.5	0.912
0	0
0	0

Source Half-life (see Help):

Infinite (yr)

Inst. React. 1st Order

Soluble Mass (Kg)

In Source NAPL, Soil

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	Dist. from Source (ft)
0	33
	65
	98
	130
	163
	195
	228
	260
	293
	325

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN

View Output

RUN ARRAY

View Output

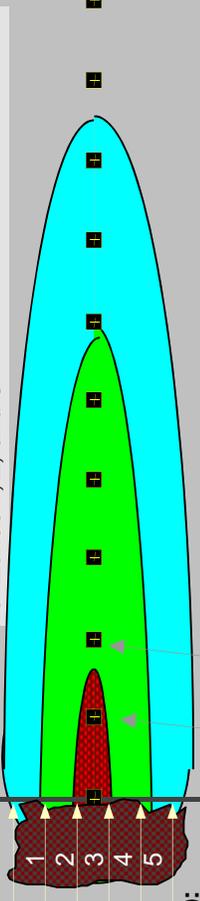
Help

Recalculate

Paste Example Dataset

Restore Formulas for Vs,

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



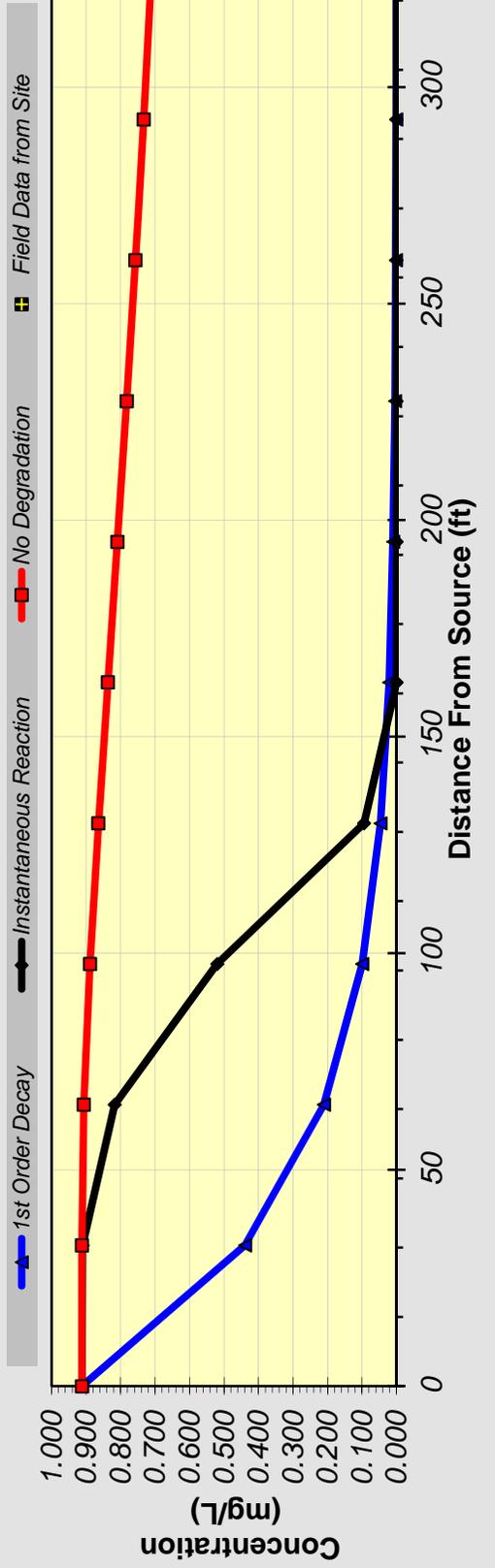
View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

DISSOLVED NAPHTHALENE CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	33	65	98	130	163	195	228	260	293	325
No Degradation	0.912	0.912	0.906	0.889	0.864	0.836	0.809	0.782	0.757	0.733	0.711
1st Order Decay	0.912	0.439	0.210	0.099	0.047	0.022	0.010	0.005	0.002	0.001	0.000
Inst. Reaction	0.912	0.910	0.817	0.520	0.094	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Time: Years

[Calculate](#)

[Return to](#)

[Recalculate This](#)