



Groundwater
& Environmental Services, Inc.

**2ND QUARTER CAP IMPLEMENTATION MONITORING
REPORT**
JULY 2015

POTOMAC RIVER GENERATING STATION
1400 NORTH ROYAL STREET
ALEXANDRIA, VA

PC# 2013-3154

PREPARED FOR:
NRG POTOMAC RIVER LLC
8301 PROFESSIONAL PLACE, SUITE 250
LANDOVER, MD 20785

SUBMITTED TO:
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 CROWN COURT
WOODBIDGE, VA 22193-1453

PREPARED BY:
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.
1350 BLAIR DRIVE, SUITE A
ODENTON, MD 21113

JULY 30, 2015

SITE NAME: Potomac River Generating Station

SITE LOCATION: 1400 North Royal Street, Alexandria, VA

VDEQ PC# 2013-3154

DATE OF REPORT: July 30, 2015

LAND USE CLASSIFICATION: Industrial

CURRENT PROPERTY OWNER: NRG Potomac River LLC
8301 Professional Place, Suite 250
Landover, MD 20785

CONSULTANT: Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A
Odenton, MD 21113
(800) 220-3606

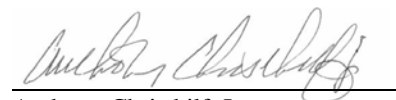
RELEASE INFORMATION: Release from two former 25,000 gallon heating oil USTs

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1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this 2nd Quarter 2015 CAP Implementation Monitoring Report (CMR) on behalf of NRG Potomac River LLC (NRG), documenting environmental monitoring and corrective action activities performed at the Potomac River Generating Station (PRGS), located at 1400 North Royal Street, Alexandria, VA (site). The site activities were performed to address a subsurface petroleum release regulated by the Virginia Department of Environmental Quality (VDEQ) Northern Regional Office (NRO) under Pollution Complaint (PC) #2013-3154. The site is the location of a decommissioned power generating facility. A Site Location Map is provided as **Figure 1**. A Site Map, depicting pertinent features of the site and adjacent areas, is provided as **Figure 2**.

Specifically, this summary report documents the following activities conducted during the 2nd Quarter of 2015:

- Weekly liquid level gauging of select site monitoring wells to measure elevations of groundwater and light non-aqueous phase liquid (LNAPL) hydrocarbons, if present;
- Comprehensive gauging of all site monitoring wells for determining groundwater flow;
- Bio stimulation headspace vapor monitoring of site monitoring wells to measure the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane; and
- Routine quarterly sampling of groundwater from all site monitoring wells for petroleum hydrocarbons and select wells for bio stimulation parameters. Additional sampling of select wells for District Department of the Environment (DDOE) required parameters
- Additional groundwater sampling from select future remediation pumping wells for permit required parameters.
- CAP Implementation remedial system installation activities including site meeting for remedial system installation bidding and permitting.

1.1 SITE HISTORY

The site was developed as a power generating facility in the 1940s. The first generating unit was constructed by 1949, and the last of the five units was brought online in 1954. The facility used Number 2 (No. 2) fuel oil to preheat its generating unit boilers and coal as its primary fuel to generate electricity. The No. 2 fuel oil was stored in two adjoining 25,000-gallon underground storage tanks (USTs) centrally located within the power plant complex, as shown on the Site Map. On October 1, 2012, the coal power plant ceased operation.

PC #2013-3154 was opened by the VDEQ following the detection of petroleum hydrocarbons during the closure activities associated with the two 25,000-gallon fuel oil USTs. The VDEQ requested that a Site Characterization Report (SCR) be prepared to characterize the extent of the contamination at the site.

URS Corporation (URS) submitted a Site Conceptual Model (SCM) on June 11, 2013, which included a discussion of the initial detection of petroleum hydrocarbons during the closures of the two No. 2 fuel oil USTs, as well as descriptions of the various subsurface utilities in the vicinity of the USTs.

The VDEQ subsequently requested the submittal of a Site Characterization Report Addendum (SCRA) as stated in a directive letter dated July 10, 2013. This SCRA was submitted on February 14, 2014, by URS and described the activities associated with a subsurface characterization of the site using laser-induced fluorescence (LIF), as well as the advancement of soil borings for soil sampling at the site, and the installation of fourteen monitoring wells. The site history, recent field activities, laboratory analytical results, a preliminary risk assessment, and an assessment of remedial options were also discussed in the SCRA.

After review of the SCRA, on March 4, 2014, the VDEQ requested that a Corrective Action Plan (CAP) be developed for the site. GES and Geosyntec Consultants (Geosyntec) submitted Part I of a CAP, (CAP-I) summarizing the site characterization data and evaluation; presenting an updated SCM based on this data; and providing a presentation, assessment, and evaluation of the viable remedial technologies that can be employed, consistent with the CAP requirements. On March 17, 2014, the VDEQ approved CAP-I and requested continued quarterly groundwater monitoring. Subsequently, Part II of the CAP (CAP-II) was submitted to the VDEQ on December 23, 2014. CAP-II was approved by the VDEQ on March 17, 2015, and assigned CAP tracking number 513.

1.2 SURROUNDING PROPERTIES

The surrounding properties in the immediate vicinity of the site are primarily residential and commercial, with some buildings used as office space. To the north, south, and west, the site is bordered by a mixture of condominium and office buildings. To the east, the site is bordered by the National Park Service's (NPS) Mt. Vernon Trail, beyond which lies the Potomac River.

2.0 SITE CHARACTERIZATION AND MONITORING ACTIVITIES

The 2nd Quarter 2015 scope of work was developed in coordination with the VDEQ as outlined in the April 3, 2015 Activity Authorization Form (AAF), which was approved by the VDEQ on April 6, 2015. The following site characterization and monitoring activities were conducted during this monitoring period:

- April, May, and June 2015:
 - Weekly gauging of select monitoring wells. Enhanced fluid recovery (EFR) events and manual bailing of light non-aqueous phase liquids (LNAPL) from monitoring wells were not performed during the 2nd Quarter, as requested by the VDEQ.
- May 11, 2015:
 - Site-wide gauging, biostimulation headspace vapor monitoring, and collection of down-well field parameters of monitoring wells.
- May 12-13, 2015:
 - Gauging and groundwater sampling of all accessible site monitoring wells that contain sufficient water for sampling and do not contain measureable thicknesses of LNAPL.

A Well Network Summary Table, including sampling parameters and well construction details, is included as **Table 1**.

2.1 WELL GAUGING

An oil-water interface probe capable of measuring groundwater and LNAPL to 0.01 feet was used to gauge the site monitoring wells. During the 2nd Quarter, all site monitoring wells were gauged during a comprehensive gauging event prior to groundwater sampling; select, accessible wells that historically exhibited measureable LNAPL or elevated dissolved phase hydrocarbon concentrations were also gauged on a weekly basis. Gauging events conducted during the 2nd Quarter are summarized below:

- Gauging of select wells weekly:
 - April 2, 2015
 - April 8, 2015
 - April 13, 2015
 - April 23, 2015
 - April 29, 2015
 - May 4, 2015
 - May 21, 2015
 - May 28, 2015
 - June 2, 2015
 - June 9, 2015
 - June 16, 2015

- June 19, 2015
- June 22, 2015
- June 26, 2015
- Site-wide gauging of all wells:
 - May 11, 2015
- Gauging and sampling of all accessible wells:
 - May 12-13, 2015

The 2nd Quarter 2015 Groundwater Gauging Data Summary is presented in **Table 2**. LNAPL was detected in monitoring wells MW-01S, MW-05, MW-10S, MW-25, MW-25S, and MW-51 during the 2nd Quarter 2015, with a maximum thickness of 3.31 feet in MW-05. Groundwater depths ranged from 2.40 feet below ground surface (bgs) in MW-10S to 29.17 feet bgs in MW-05 during the 2nd Quarter 2015, which is consistent with historical data from the site. Site-wide gauging was conducted on May 11, 2015, in accordance with the tidal cycle of the Potomac River. Site wells were gauged as quickly as possible by multiple personnel and gauging was conducted bracketing the river's high tide. This approach was used to minimize the impact of tidal influence on groundwater elevation data. Two Groundwater Contour Maps, representing shallow zone data and deep zone data, respectively, from the May 11, 2015 comprehensive gauging event are presented as **Figure 3** and **Figure 4**. The shallow Groundwater Contour Map indicates that groundwater flows to the northeast, which is consistent with the historical flow direction. The Deep Groundwater Contour Map indicates that groundwater flows to the northeast, which is consistent with the historical flow direction. The hydraulic gradient at the site was calculated to be 0.0174 feet per foot in the shallow zone and 0.0157 feet per foot in the deep zone. The shallow zone hydraulic gradient was calculated between MW-100S and MW-30S; the deep zone hydraulic gradient was calculated between MW-14 and TW-02.

2.2 HEADSPACE VAPOR MONITORING

Monitoring well biostimulation vapor headspace analysis was conducted at select monitoring wells during the May 11 comprehensive gauging event using a photoionization detector (PID) and a GEM 2000 landfill gas meter. The PID is fitted with a 10.6 electron volt bulb and was calibrated using a factory-supplied calibration gas standard (100 parts per million [ppm] isobutylene) prior to each field use.

To obtain reproducible and stable readings, a vapor monitoring well cap was inserted securely into the well, and the PID and landfill gas meter were used to record VOC, oxygen, carbon dioxide, and methane concentrations. This arrangement allows for the withdrawal of air from the well through the PID and landfill gas meter pumps while minimizing the exchange of ambient air. The PID and landfill gas meter responses were recorded in the field book after the stabilization period.

Detailed PID and landfill gas meter response data are presented in **Table 5** for the 2nd Quarter 2015 site visit.

2.3 GROUNDWATER SAMPLING

On May 12 and 13, 2015, groundwater samples for routine VDEQ parameters were collected from 39 monitoring wells using disposable bailers. Samples for additional biostimulation parameters and DDOE parameters were collected from select wells. MW-01S, MW-05, MW-10S, MW-25S, MW-25, and MW-51 were not sampled for VDEQ or DDOE parameters, as the wells contained measurable thicknesses of LNAPL. MW-16S and MW-108 were not sampled, as the wells were dry. TW-12S was not sampled, as the well contained an insufficient volume of water. On May 13, 2015 representative groundwater samples were collected from monitoring wells MW-05, MW-25, MW-31, MW-51, and MW-72. These groundwater samples were collected for use in conjunction with the Alexandria Sanitary Discharge Permit. Analytical results indicated the presence of LNAPL contained in the groundwater samples collected from MW-05, MW-25, and MW-51. On June 25, 2015 GES personnel re-sampled monitoring wells MW-05, MW-25, and MW-51. As previously mentioned, all reports of analysis will be packaged in a submittal for the Alexandria Sanitary Discharge Permit.

Depth to water data measurements were recorded at each monitoring well prior to groundwater sampling and are presented in **Table 2**. Prior to the collection of groundwater samples, a minimum of three well volumes of water was purged from each monitoring well using purge bailers. Purge bailers were decontaminated prior to purging each well. Select wells containing minimal volumes of water were not purged, and grab samples were immediately collected. Purge water was containerized in 55 gallon drums and stored onsite for future offsite transportation and disposal. Purge water is pending transportation to an offsite disposal facility during the 3rd quarter of 2015 in conjunction with other waste purge water disposal events. Groundwater samples were collected directly in laboratory provided bottleware, packaged on ice in coolers, and transported under proper chain of custody to Eurofins Lancaster Laboratories of Lancaster (Lancaster Labs), PA. Samples were requested to be analyzed for the site constituents of concern (COCs):

- Standard quarterly parameters – all wells
 - Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO)
- Standard annual parameters – select wells
 - Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
 - Naphthalene
- Biostimulation parameters – select wells
 - Alkalinity
 - Nitrate (NO_3^{1-})
 - Manganese (Mn^{2+})
 - Ferrous Iron (Fe^{2+})
 - Sulfate (SO_4^{2-})
 - Methane
- Additional DDOE parameters – select wells
 - Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO)
 - Polycyclic aromatic hydrocarbons (PAHs)
 - N-Hexane Extractable Material (HEM) - Oil and Grease
 - Turbidity

- Methyl tert-Butyl Ether (MTBE)
- Tert-Butyl Alcohol (TBA)
- 1,2-dibromoethane (EDB)
- 1,2-dichloroethane (EDC)
- Alexandria Renew discharge permit parameters – select wells
 - Arsenic
 - Cadmium
 - Chromium
 - Copper
 - Lead
 - Molybdenum
 - Nickel
 - Silver
 - Mercury
 - Total Cyanide
 - HEM - Oil and Grease

Historical Groundwater Analytical Data is summarized in **Table 3** and discussed further in **Section 2.4**. The complete laboratory report and chain of custody documentation for the groundwater sampling event is presented as **Attachment A**.

2.4 GROUNDWATER ANALYTICAL FINDINGS

During the 2nd Quarter, 39 wells were sampled for TPH-DRO. Two TPH-DRO Contour Maps, representing shallow zone data and deep zone data, respectively, from the May 12-13, 2015 sampling event are presented as **Figure 5** and **Figure 6**. Additionally, 11 of the wells (MW-11, MW-27, MW-30S, MW-31, MW-72S, MW-72, MW-106, MW-109S, TW-03, TW-05, and TW-07) were also sampled for additional VDEQ required parameters, including BTEX, and Naphthalene. The results from the collection and analysis of groundwater samples from onsite monitoring wells sampled during the 2nd Quarter 2015 are presented below:

- TPH-DRO was detected in 23 of the 39 monitoring wells, with a maximum concentration of 27,000 µg/L recorded in MW-08S;
- Benzene was detected in six of the eleven select monitoring wells, with a maximum concentration of 13 µg/L recorded in MW-72S and MW-72;
- Toluene was not detected in any of the eleven select monitoring wells;
- Ethylbenzene was detected in three of the eleven select monitoring wells, with a maximum concentration of 24 µg/L recorded in MW-72S;
- Xylenes were detected in two of the eleven select monitoring wells, with a maximum concentration of 6 µg/L recorded in MW-72;
- Naphthalene was detected in seven of the eleven select monitoring wells, with a maximum concentration of 30 µg/L recorded in MW-27.

In addition to the COC sampling detailed above, fifteen wells (MW-11, MW-14, MW-31, MW-33, MW-51S, MW-70, MW-72S, MW-72, MW-106, MW-109S, MW-112S, MW-114, TW-03, TW-05, and TW-07) were sampled for bio stimulation parameters. These bio stimulation parameters are useful indicators of the presence and rate of biodegradation and will serve as baseline measurements to determine the effectiveness of future remedial activities.

3.0 REMEDIATION SYSTEM INSTALLATION ACTIVITIES

Remediation system installation activities performed during the 2nd Quarter 2015 in accordance with the CAP-II, which was approved by the VDEQ on March 17, 2015 include:

- Coordination with National Park Service (NPS) for offsite CAP Implementation activities.
- Initiation of recovery, air sparge, and delineation well installation;
- System construction design and procurement;
- CAP implementation permitting and coordination;
- Electrical power drop coordination and procurement;
- Dominion Power has received GES' application for service.
- Sanitary sewer discharge location coordination and permitting;

3.1 NATIONAL PARK SERVICE COORDINATION

On May 6, 2015, NRG and GES attended a meeting with the NPS. The purpose of the meeting was to discuss the NPS property Scope of Work (SOW) required to implement the approved CAP and to review the process of obtaining a Special Use Permit for this work. NPS provided guidance on the application submittal and noted that a permit would not be issued until a formal review had been completed. While discussing the application requirements, additional information was requested including traffic control and a vegetation inventory. For the proposed traffic plan, a Record of Decision (ROD) will likely need to be issued by the NPS Park Superintendent to temporarily close the NPS trail. The NPS noted that obtaining a ROD is a lengthy process that would take at minimum 45 days and possibly longer. Due to the amount of time required for the Special Use Permit application, review, public notice, and review period, GES is planning to split the system installation work into two phases. The first phase will continue to progress well and system installation activities on the PRGS property. Once the Special Use Permit has been issued and offsite access to the NPS property is granted, the second phase will begin for offsite well and system installation activities.

The permit application is currently under review by the NPS. Additional details regarding the permit progress and the separation of the onsite and offsite work are discussed in more detail below.

3.2 ONSITE WELL INSTALLATIONS

Between June 22, 2015, and July 8, 2015, 17 Total Phase Extraction (TPE), Standard Compliance/Delineation Monitoring, and Air Sparge wells were installed as proposed in the December 23, 2014 CAP with minor modification due to surface and subsurface interferences. The newly installed wells include:

- Standard Compliance/Delineation Monitoring Wells (Compliance)
 - Two additional deep zone monitoring wells (MW-121 and MW-122)
 - One additional shallow zone monitoring well (MW-123S)
- TPE Wells

- Eight shallow zone TPE wells (RW-05S, RW-25S, RW-28S, RW-30S, RW-116S, RW-117S, RW-118S, and RW-119S)
- Air Sparge Wells
 - Six deep zone sparge points (SP-03, SP-04, SP-05, SP-06, SP-07, and SP-08)

Variations to the TPE and Compliance well network proposed in CAP-II are listed below:

- Compliance wells MW-120 and MW-123 could not be installed due to refusal during drilling at the proposed locations. Due to the presence of aboveground features and subsurface utilities, no alternate locations for the wells were identified. As a result, the proposed addition of three compliance wells in CAP-II was modified, as only two compliance wells (MW-121 and MW-122) were successfully installed.
- Over drilling of existing site wells for conversion to TPE wells was unsuccessful. Therefore, several variations from the well network proposed in CAP-II were made:
 - MW-10S was left in place, and will be converted to a TPE well;
 - MW-25S was left in place, and RW-25S was installed in the immediate vicinity to be used as a TPE well;
 - MW-30S was abandoned due to unsuccessful attempt to over drill the well, and RW-30S was installed in the immediate vicinity to be used as a TPE well;
 - MW-51S was left in place, and GES plans to convert the newly installed MW-123S into a TPE well instead of the using MW-51S as a TPE well; and
 - MW-72S was left in place, and will be converted to a TPE well.
- The installation of the new monitoring and recovery wells will be more fully documented in the 3rd Quarter 2015 CMR.

3.3 OFFSITE AIR SPARGE WELL INSTALLATIONS

As discussed above, the offsite air sparge well network installation will be conducted once a special use permit is obtained from the NPS.

3.4 REMEDIAL SYSTEM DESIGN AND PROCUREMENT

During the 2nd Quarter, GES completed system design and procurement packages for competitive bidding between three system vendors. The three bid process was completed, and Product Recovery Management, Inc. (PRM) was chosen to construct the remediation system. On June 26, 2015, PRM was approved to proceed with their remediation system design package and begin construction of the remediation system following GES approval of the design package. The estimated duration to complete the construction and deliver the remedial systems to the site is approximately 12 weeks from the date PRM was approved to proceed. Delivery of the remediation systems to the site is anticipated to occur in late-September.

3.5 REMEDIAL SYSTEM INSTALLATION

The initial remediation system installation scope of work and procurement packages are being developed and are pending finalization following the completion of the onsite recovery and air sparge wells network. Finalization of the three bid procurement process and completion of the system installation piping will be completed during the 3rd Quarter 2015. System piping will be installed to the edge of NRG property

during the initial remediation system installation, in preparation for the future, offsite air sparge network that will be installed on the NPS property alongside the Mt. Vernon trail.

3.6 BULK HEAD WALL SEEP SEALING

A total of six seep areas were identified in the steel bulk head wall along the Potomac River. A request for proposal (RFP) will be sent to qualified marine contractors and a determination will be made based on price and availability. Generally, the seeps will be sealed by grinding and welding additional steel plates onto the existing sheet piling. This work will be performed in conjunction with the offsite well installation which is pending NPS approval.

3.7 PERMIT SUMMARY

Special Use Permit	Required for: Offsite air sparge well installation and remediation system piping on the Mt. Vernon Trail and bulk head seep sealing Issued by: National Parks Service Progress: A permit application was submitted on June 2, 2015. On June 15, 2015, GES and NPS personnel completed a vegetation inventory; documentation of the inventory was submitted for inclusion with the permit review on June 16, 2015.
Building Permit (2)	Required for: Pre-fabricated systems/enclosures (Building Plan or Existing Commercial Tenant Improvement or Industrialized Building/Construction Trailer). Issued by: The City of Alexandria, Permit Center Progress: Application will be submitted immediately after fabricator provides final building plans (Late July 2015).
Certificate of Occupancy (2)	Required for: Authorization to occupy building Issued by: The City of Alexandria, Department of Code Administration Progress: Will be applied for when the initial building permit and plans are submitted for review (Late July 2015).
Letter of Authorization	Required for: Sanitary sewer discharges less than 25,000 gallons per day with low risk of negatively impacting the sanitary sewer system. Issued by: Fairfax County Industrial Waste Section, Alexandria Sanitation Authority/Alexandria Renewal Enterprises Progress: Alexandria Renew Enterprises provided pretreatment guidance on April 28, 2015 and discharge application requirements on May 1, 2015. Untreated water samples were collected on May 25, 2015 and June 26, 2015. A scope of work has been developed to evaluate the physical condition of the existing sanitary discharge line and potential tie-in locations.
Groundwater Withdrawal	Required for: Any person or entity withdrawing 300,000 gallons or more of groundwater in any one month. NRG will withdraw groundwater at a higher flow rate; however, the Groundwater Management Act in the Code of Virginia (9VAC25-610-50) provides an exclusion for withdrawals associated with a state-

approved groundwater remediation that do not exceed 60 months in duration.

Minor New Source Review

Required for: Non-emergency generators with uncontrolled air emissions above the rates listed in 9VAC5-80-1105 C.1. (e.g. 25 tons per year VOCs) but less than 100 tons per year of any criteria pollutant.
Issued by: Virginia Department of Environmental Quality
Progress: The VDEQ has confirmed the site status and applicable permit exemption levels. Based on pilot test data, the exemption levels may be met at this site. The permit applicability determination will be completed in 3rd Quarter. If exemption criteria are met: written notification will be submitted 30 days prior to commencing the operational period. If permit is required: non-binding applicability determination may be requested (30 day review), followed by permit application (90 day review process), and possible public hearing (additional 90 days).

Noise

Required for: Construction noise occurring Monday-Friday before 7 am or after 6 pm, Saturday before 9 am or after 6 pm, Sunday (any hour), and holidays (any hour). *Noise Control Code Section 11-5-1*.
Issued by: The City of Alexandria, Department of Transportation and Environmental Services, Division of Construction and Inspection
Progress: Not applicable. Work days will commence and end within the specified permissible construction hours. Should a permit be required, the permit application will be submitted ten business days (minimum) prior to the specific activity.

Electrical Permit

Required for: Installation of a power drop to the site.
Progress: The initial application has been made to the City of Alexandria, and a permit writer has been assigned.

FUTURE ACTIVITIES (3rd Quarter 2015):

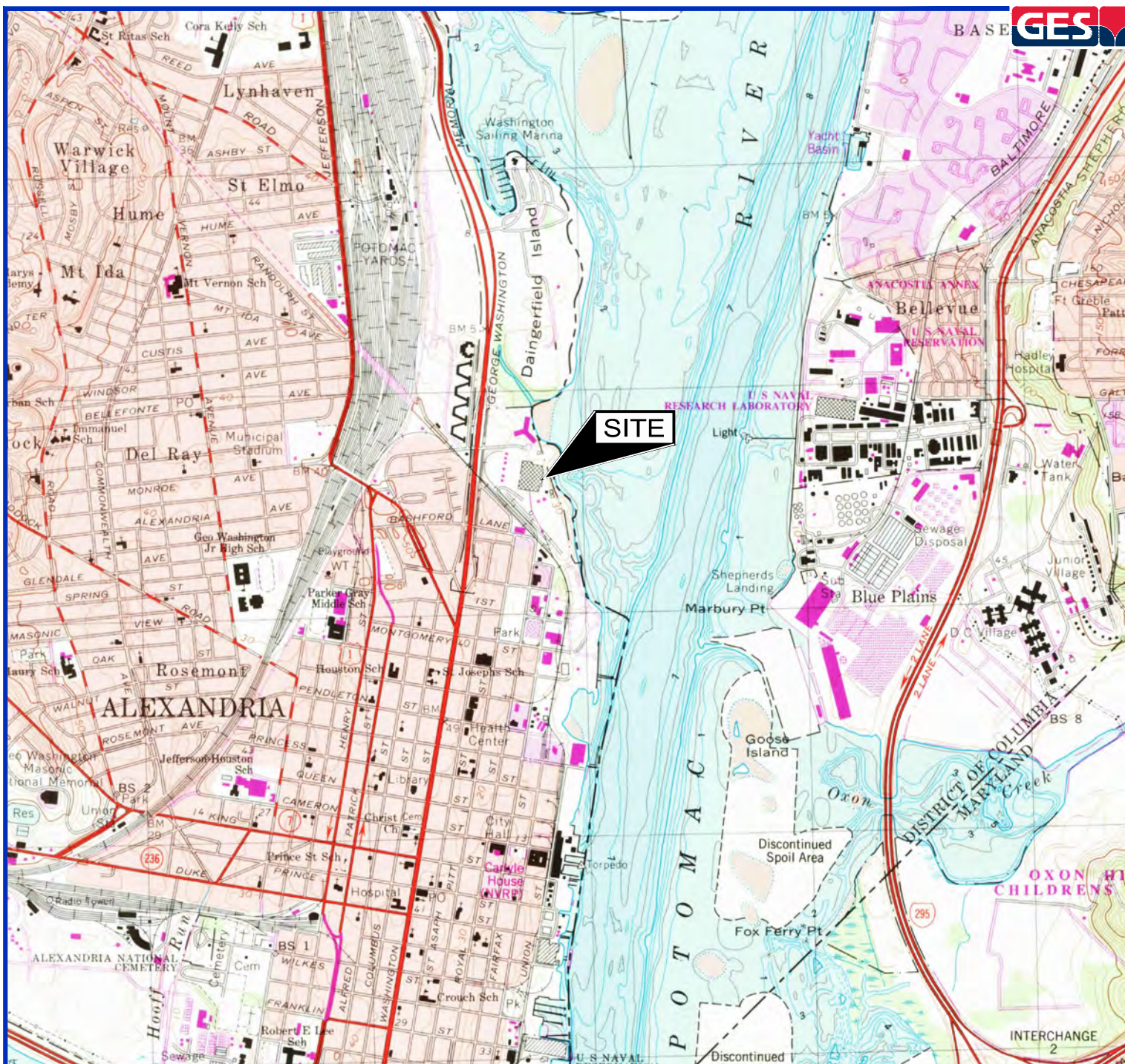
- Routine quarterly groundwater sampling for TPH-DRO and bio stimulation parameters;
- Resumption of weekly gauging and LNAPL hand bailing, as the VDEQ authorized on July 2, 2015;
- Biweekly EFR events on select wells containing greater than 0.5 feet of LNAPL as the VDEQ authorized on July 2, 2015;
- Conduct a Transmissivity test on MW-05 as requested by VDEQ
- CAP implementation permitting and coordination;
- Electrical power drop installation following the receipt of electrical permits;
- Onsite system installation bidding, procurement, and field oversight activities;
- Sanitary sewer discharge location coordination and permitting;
- Offsite air sparge well installation and bulk head seep sealing;
- Monthly submittal of gauging data; and
- Submittal of quarterly CMRs.

4.0 CONCLUSIONS

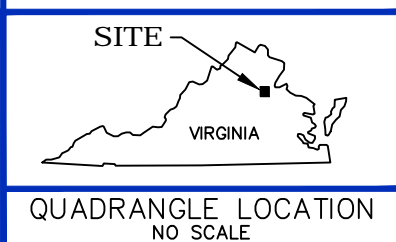
GES has completed this 2nd Quarter 2015 CMR for the Potomac River Generating Station, located at 1400 North Royal Street, Alexandria, Virginia. The following is a summary of pertinent findings from the 2nd Quarter 2015 monitoring conducted at the site:

- LNAPL was observed in six of the monitoring wells (MW-01S, MW-05, MW-10S, MW-25, MW-25S, and MW-51);
- Groundwater flow and gradient is consistent with historical observations;
- Seventeen new wells were installed at the site, and will be further discussed in the 3rd Quarter 2015 CMR; and
- Additional site activities will take place during the 3rd Quarter of 2015, including weekly gauging and bailing of product, biweekly HIT events, CAP implementation permitting and coordinating, electrical power drop coordination and procurement, and system installation activities.

FIGURES



REFERENCE: "ALEXANDRIA, VIRGINIA"
7.5' QUADRANGLE, USGS, (1965, PHOTOREVISED 1983,
BATHYMETRY 1982).



DRAFTED BY:

JW

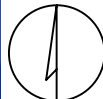
CHECKED BY:

NG

REVIEWED BY:

AC

NORTH



SITE LOCATION MAP

FORMER POTOMAC RIVER GENERATING STATION ALEXANDRIA, VIRGINIA

Groundwater & Environmental Services, Inc.
1350 BLAIR DR., SUITE A, CROFTON, MD 21113

SCALE IN FEET

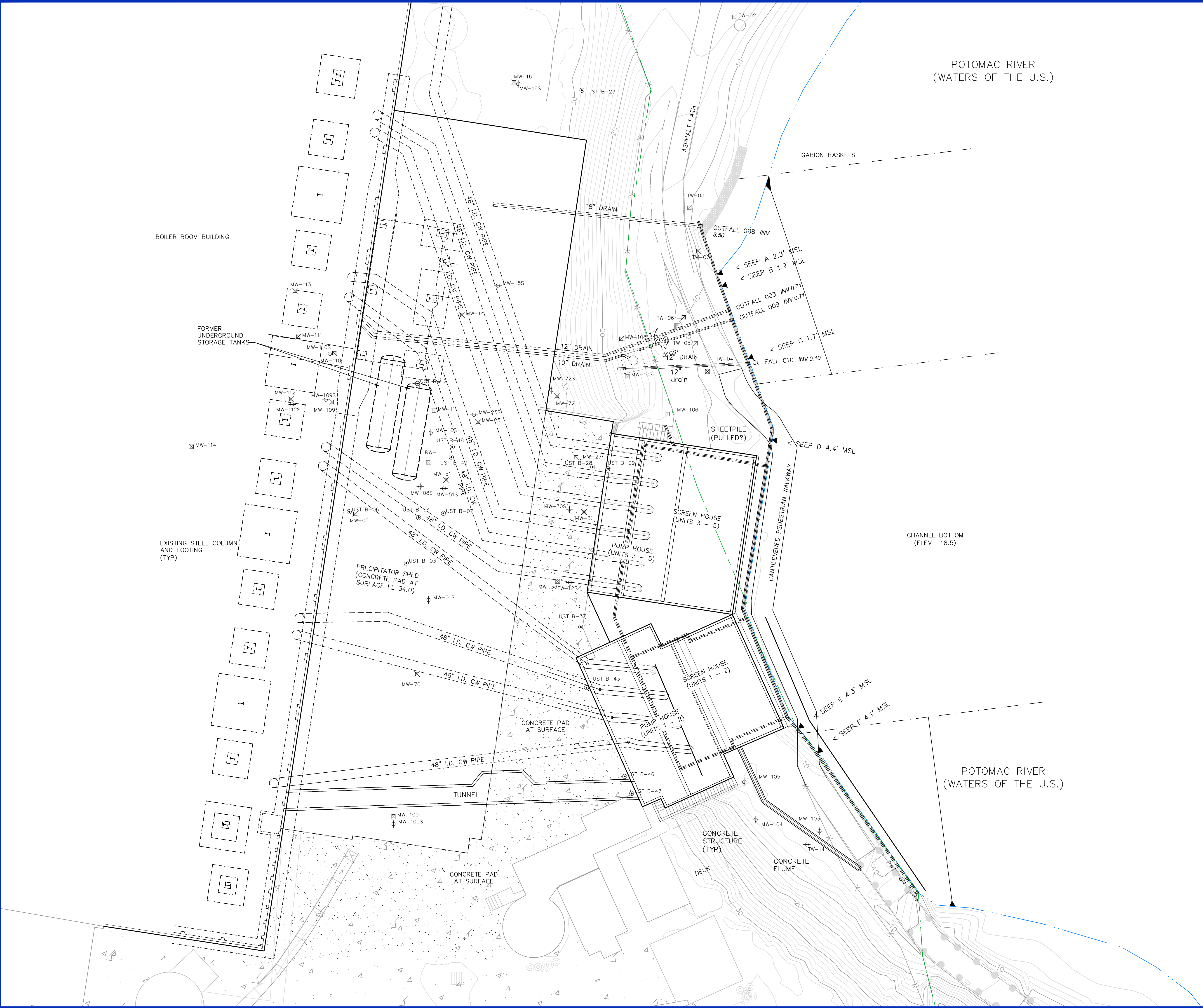


DATE

7-17-15

FIGURE

1



LEGEND

- PROPERTY BOUNDARY
- WATERLINE (RIVER)
- EXISTING GRADE CONTOUR (FEET-MSL)
- EXISTING BUILDING / STRUCTURE
- EXISTING UNDERGROUND POTABLE WATER LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORM DRAIN LINE
- EXISTING STORM DRAIN INLET
- EXISTING SHALLOW MONITORING WELL
- EXISTING DEEP MONITORING WELL
- SOIL BORING APPROXIMATE LOCATION
- FORMER URS SOIL BORING IDENTIFICATION (NOTE 3)
- SEEP LOCATION
- EXISTING FOOTING, APPROXIMATE LOCATION, ELEVATIONS UNKNOWN

- GENERAL NOTES:**
- THIS DRAWING IS CONCEPTUAL – FOR INFORMATION PURPOSES ONLY – BASED ON:
 - a. EXISTING CONDITIONS FROM AN UNSIGNED ALTA SURVEY (NRG ALTA.dwg) BY DEWBERRY & DAVIS, INC. (D&D) OBTAINED ON 18 AUGUST 2014, AS AMENDED BY FILE (NRG Potomac Topo.dwg) RECEIVED ON 9 SEPTEMBER 2014 BASED ON FIELD-RUN SURVEYS; AND
 - b. REVIEW OF SELECTED DESIGN DRAWINGS PROVIDED BY NRG AND PREPARED BY STONE AND WEBSTER ENGINEERING CO., BECHTEL, AND POTOMAC ELECTRIC POWER COMPANY.
 - HORIZONTAL LOCATIONS ARE AS-BUILT EXCEPT BELOW GRADE FEATURES. DATA SHOWN IN ITALICS IS AS-BUILT DATA (SEE NOTE 1a ABOVE); DATA NOT IN ITALICS IS DESIGN DATA (SEE NOTE 1b ABOVE).
 - EXISTING WELLS DIGITIZED FROM PDF (CS-001 Monitoring Wells Data Sheet.pdf) LISTING WELL DATA BASED ON FIELD-RUN SURVEYS CONDUCTED BY D&D; FILE OBTAINED ON 28 AUGUST 2014.
 - PRIOR URS SOIL BORING APPROXIMATE LOCATIONS DIGITIZED FROM SCRA REPORT.

DRAFTED BY:	SITE MAP		
JW			
CHECKED BY:	FORMER POTOMAC RIVER GENERATING STATION		
NG	ALEXANDRIA, VIRGINIA		
REVIEWED BY:	Groundwater & Environmental Services, Inc.		
AC	1350 BLAIR DR., SUITE A, CROFTON, MD 21113		
NORTH	SCALE IN FEET	DATE	FIGURE
		7-20-15	2

- TW-02
- (1.73) MEASURED GROUNDWATER ELEVATION
- 2 GROUNDWATER ISOCONTOUR
- DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

1. GAUGING DATE IS 5/11/2015
2. NG INDICATES NOT GAUGED
3. CONTOURS DASHED WHERE INFERRED

7-20-15

3

Response	Percentage
Never	30%
Often	70%

7-20-15

4

GROUNDWATER FLOW DIRECTION

1. GAUGING DATE IS 5/11/2015
2. NG INDICATES NOT GAUGED
3. CONTOURS DASHED WHERE INFERRED
4. MW-107 WAS NOT USED TO GENERATE THE POTENTIOMETRIC SURFACE MAP BECAUSE THE DATA APPEARS TO BE ANOMALOUS

TPH-DRO CONCENTRATION CONTOURS SHALLOW ZONE

FORMER POTOMAC RIVER GENERATING
STATION
ALEXANDRIA, VIRGINIA

AC

Groundwater & Environmental Services, Inc.
1350 BLAIR DR., SUITE A, CROFTON, MD 21113

NORTH

SCALE IN FEET

DATE _____

FIGURE

7-20-15

5

MW-109S

SHALLOW MONITORING WELL

(0.18)

MEASURED TPH-DRO CONCENTRATION

5

TPH-DRO CONCENTRATION ISOCONTOUR

0.06 ●

LNAPL THICKNESS (ft)

NOTE:

1. SAMPLING DATES WERE 5/12 - 13/15
2. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER(MG/L)
3. ND INDICATES NON-DETECT
4. CONTOURS DASHED WHERE INFERRED

MW-109
 (0.18) DEEP MONITORING WELL
 5 MEASURED TPH-DRO CONCENTRATION
 0.06 TPH-DRO CONCENTRATION ISOCONTOUR
 LNAPL THICKNESS (ft)

1. SAMPLING DATES WERE 5/12 - 13/15
2. ALL CONCENTRATIONS ARE IN MILLIGRAMS PER LITER(MG/L)
3. ND INDICATES NON-DETECT
4. CONTOURS DASHED WHERE INFERRED

7-20-15

6

TABLES

Table 1



WELL NETWORK SUMMARY TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	2nd Quarter 2015 Gauging Schedule	2nd Quarter 2015 VDEQ Sampling Parameters	2nd Quarter 2015 DDOE Sampling	Notes
MW-01S	MW	Shallow	7/29/2014	4	27	17	10	Weekly	TPH-DRO and biostimulation Parameters		
MW-05	MW	Deep	8/1/2014	4	35	25	10	Weekly	TPH-DRO		
MW-08S	MW	Shallow	7/23/2014	4	25	15	10	Weekly	TPH-DRO		
MW-10S	MW	Shallow	7/28/2014	4	27	17	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters		
MW-11	MW	Deep	7/24/2014	4	35	25	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters		
MW-14	MW	Deep	7/29/2014	4	38.5	28.5	10	Weekly	TPH-DRO and biostimulation Parameters		
MW-15S	MW	Shallow	7/31/2014	4	26	16	10	Quarterly	TPH-DRO		
MW-16S	MW	Shallow	8/13/2014	2	25	15	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-16	MW	Deep	8/14/2014	2	36	26	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-25S	MW	Shallow	8/5/2014	4	26	16	10	Weekly	TPH-DRO		
MW-25	MW	Deep	7/24/2014	4	35	25	10	Weekly	TPH-DRO		
MW-27	MW	Deep	7/21/2014	4	35	25	10	Weekly	TPH-DRO and VDEQ Annual Parameters	Routine DDOE Parameters	
MW-30S	MW	Shallow	8/7/2014	4	26	16	10	Weekly	TPH-DRO and VDEQ Annual Parameters	Routine DDOE Parameters	Abandoned 6/23/15 and replaced by RW-30S
MW-31	MW	Deep	8/5/2014	4	36	26	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters	Routine DDOE Parameters	
MW-33	MW	Deep	8/5/2014	4	35	25	10	Quarterly	TPH-DRO and biostimulation Parameters	Routine DDOE Parameters	
MW-51S	MW	Shallow	8/6/2014	4	25.5	15.5	10	Weekly	TPH-DRO and biostimulation Parameters		
MW-51	MW	Deep	7/22/2014	4	37	27	10	Weekly	TPH-DRO		

Table 1



WELL NETWORK SUMMARY TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	2nd Quarter 2015 Gauging Schedule	2nd Quarter 2015 VDEQ Sampling Parameters	2nd Quarter 2015 DDOE Sampling	Notes
MW-52	MW	Deep	8/14/2014	2	36	26	10	Quarterly	TPH-DRO		
MW-70	MW	Deep	8/13/2014	2	36	26	10	Quarterly	TPH-DRO and biostimulation Parameters		
MW-72S	MW	Shallow	8/7/2014	4	25	15	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters		
MW-72	MW	Deep	7/30/2014	4	35	25	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters	Routine DDOE Parameters	
MW-100S	MW	Shallow	8/12/2014	2	24.5	14.5	10	Quarterly	TPH-DRO		
MW-100	MW	Deep	8/12/2014	2	37.5	27.5	10	Quarterly	TPH-DRO		
MW-102	MW	Deep	8/11/2014	2	37	27	10	Quarterly	TPH-DRO		
MW-103	MW	Shallow	7/23/2014	2	15	5	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-104	MW	Shallow	7/24/2014	2	12	2	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-105	MW	Shallow	7/24/2014	2	10	1	9	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-106	MW	Deep	7/22/2014	2	10	3	7	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual	Routine DDOE Parameters	
MW-107	MW	Deep	7/22/2014	2	11	3	8	Weekly	TPH-DRO	Routine DDOE Parameters	
MW-108	MW	Deep	7/23/2014	2	10	4	6	Quarterly	TPH-DRO	Routine DDOE Parameters	
MW-109S	MW	Shallow	8/20/2014	4	13.5	3.5	10	Quarterly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters		Discontinued weekly gauging due to asbestos within station basement
MW-109	MW	Deep	8/19/2014	4	24	14	10	Quarterly	TPH-DRO		
MW-110S	MW	Shallow	8/20/2014	4	13	3	10	Quarterly	TPH-DRO		
MW-110	MW	Deep	8/20/2014	4	24	14	10	Quarterly	TPH-DRO		

Table 1



WELL NETWORK SUMMARY TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	2nd Quarter 2015 Gauging Schedule	2nd Quarter 2015 VDEQ Sampling Parameters	2nd Quarter 2015 DDOE Sampling	Notes
MW-111	MW	Deep	8/18/2014	2	22	12	10	Quarterly	TPH-DRO		
MW-112S	MW	Shallow	8/12/2014	4	13	3	10	Quarterly	TPH-DRO and biostimulation Parameters		
MW-112	MW	Deep	8/12/2014	4	24	14	10	Quarterly	TPH-DRO		
MW-113	MW	Deep	8/19/2014	2	23	13	10	Quarterly	TPH-DRO		
MW-114	MW	Deep	8/21/2014	2	23	13	10	Quarterly	TPH-DRO and biostimulation Parameters		
MW-121	MW	Deep	7/2/2015	4	37	27	10	Newly installed wells, not gauged or sampled during 2nd Quarter 2015			
MW-122	MW	Deep	6/24/2015	4	37	27	10				
MW-123S	MW	Shallow	7/7/2015	4	25	21	4				
TW-02	MW	Deep	12/12/2013	1	24	14	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
TW-03	MW	Deep	12/12/2013	1	15	5	10	Quarterly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters	Routine DDOE Parameters	
TW-04	MW	Deep	12/13/2013	1	15	5	10	Weekly	TPH-DRO	Routine DDOE Parameters	
TW-05	MW	Deep	12/13/2013	1	10	0	10	Weekly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters	Routine DDOE Parameters	
TW-06	MW	Deep	12/13/2013	1	15	5	10	Weekly	TPH-DRO	Routine DDOE Parameters	
TW-07	MW	Deep	12/13/2013	1	15	5	10	Quarterly	TPH-DRO, biostimulation Parameters, and VDEQ Annual Parameters	Routine DDOE Parameters	
TW-12S	MW	Shallow	12/18/2013	1	25	15	10	Quarterly	TPH-DRO	Routine DDOE Parameters	
TW-14	MW	Shallow	1/15/2014	1	5.5	0.5	5	Quarterly	TPH-DRO	Routine DDOE Parameters	
RW-1	MW	Deep	10/2/2014	4	41	26	15	Weekly	TPH-DRO		



Table 1

WELL NETWORK SUMMARY TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)	2nd Quarter 2015 Gauging Schedule	2nd Quarter 2015 VDEQ Sampling Parameters	2nd Quarter 2015 DDOE Sampling	Notes
RW-05S	TPE	Shallow	6/29/2015	4	26	21	5	Newly installed wells, not gauged or sampled during 2nd Quarter 2015			
RW-25S	TPE	Shallow	7/7/2015	4	25	20	5				
RW-28S	TPE	Shallow	7/6/2015	4	27	22	5				
RW-30S	TPE	Shallow	6/23/2015	4	29	24	5				
RW-116S	TPE	Shallow	6/26/2015	4	26	21	5				
RW-117S	TPE	Shallow	6/23/2015	4	25	20	5				
RW-118S	TPE	Shallow	6/25/2015	4	25	20	5				
RW-119S	TPE	Shallow	6/29/2015	4	26	21	5				
SP-01	SP	Deep	10/2/2014	2	35	32	3	Air sparge points, not gauged or sampled during 2nd Quarter 2015			
SP-02	SP	Deep	9/30/2014	2	36	33	3				
SP-03	SP	Deep	6/30/2015	2	36	33	3				
SP-04	SP	Deep	7/1/2015	2	36	33	3				
SP-05	SP	Deep	7/8/2015	2	36	33	3				
SP-06	SP	Deep	6/30/2015	2	36	33	3				
SP-07	SP	Deep	6/25/2015	2	36	33	3				
SP-08	SP	Deep	7/8/2015	2	36	33	3				

- = Not available
ft = Feet
in = Inches
MW = Monitoring Well
TPE = Total Phase Extraction Well
SP = Air Sparge Point

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-01S	04/02/2015	30.87	25.06	24.96	0.10	-	26.60	5.81	11:33	LNAPL not manually bailed
	04/08/2015	30.87	25.10	24.96	0.14	-	26.64	5.77	9:27	LNAPL not manually bailed
	04/13/2015	30.87	24.92	24.83	0.09	-	-	5.95	10:35	LNAPL not manually bailed
	04/23/2015	30.87	24.38	24.35	0.03	-	26.55	6.49	12:04	LNAPL not manually bailed
	04/29/2015	30.87	24.38	24.34	0.04	-	26.60	6.49	14:29	LNAPL not manually bailed
	05/04/2015	30.87	24.32	24.28	0.04	-	-	6.55	11:55	LNAPL not manually bailed
	05/11/2015	30.87	24.37	24.31	0.06	-	-	6.50	10:55	LNAPL not manually bailed
	05/21/2015	30.87	24.46	24.41	0.05	-	-	6.41	12:15	LNAPL not manually bailed
	05/28/2015	30.87	24.65	24.54	0.11	-	26.55	6.22	11:50	LNAPL not manually bailed
	06/02/2015	30.87	24.52	24.46	0.06	-	-	6.35	13:16	LNAPL not manually bailed
	06/09/2015	30.87	24.12	24.10	0.02	-	-	6.75	10:43	LNAPL not manually bailed
	06/16/2015	30.87	24.05	24.04	0.01	-	-	6.82	11:37	LNAPL not manually bailed
	06/26/2015	30.87	23.72	-	-	-	26.50	7.15	10:43	LNAPL not manually bailed
MW-05	04/02/2015	31.57	27.13	26.97	0.16	-	31.95	4.44	11:37	LNAPL not manually bailed
	04/08/2015	31.57	27.49	27.20	0.29	-	32.00	4.08	9:20	LNAPL not manually bailed
	04/13/2015	31.57	27.53	27.07	0.46	-	-	4.04	10:51	LNAPL not manually bailed
	04/23/2015	31.57	27.41	26.55	0.86	-	32.00	4.16	12:10	LNAPL not manually bailed
	04/29/2015	31.57	27.78	26.61	1.17	-	31.90	3.79	14:39	LNAPL not manually bailed
	05/04/2015	31.57	28.03	26.56	1.47	-	-	3.54	11:51	LNAPL not manually bailed
	05/11/2015	31.57	28.24	26.40	1.84	-	-	3.33	15:10	LNAPL not manually bailed
	05/13/2015	31.57	28.75	26.84	1.91	1.50	-	2.82	13:20	
	05/21/2015	31.57	26.87	26.78	0.09	-	-	4.70	12:48	LNAPL not manually bailed
	05/28/2015	31.57	28.45	27.00	1.45	-	32.00	3.12	11:54	LNAPL not manually bailed
	06/02/2015	31.57	28.52	26.62	1.90	-	-	3.05	13:11	LNAPL not manually bailed
	06/09/2015	31.57	28.67	26.12	2.55	-	-	2.90	10:55	LNAPL not manually bailed
	06/16/2015	31.57	29.17	25.86	3.31	-	-	2.40	11:48	LNAPL not manually bailed
	06/26/2015	31.57	28.51	25.55	2.96	-	32.00	3.06	10:50	LNAPL not manually bailed
MW-08S	04/02/2015	30.86	22.03	-	-	-	24.60	8.83	11:25	
	04/08/2015	30.86	22.07	-	-	-	24.68	8.79	8:50	
	04/13/2015	30.86	22.08	-	-	-	-	8.78	10:41	
	04/23/2015	30.86	22.08	-	-	-	24.65	8.78	11:55	
	04/29/2015	30.86	22.09	-	-	-	24.60	8.77	14:22	
	05/04/2015	30.86	22.09	-	-	-	-	8.77	11:39	
	05/11/2015	30.86	22.10	-	-	-	24.70	8.76	9:50	
	05/21/2015	30.86	22.05	-	-	-	24.65	8.81	12:22	
	05/28/2015	30.86	22.11	-	-	-	24.60	8.75	11:45	
	06/02/2015	30.86	22.06	-	-	-	-	8.80	13:04	
	06/09/2015	30.86	22.05	-	-	-	-	8.81	10:30	
	06/16/2015	30.86	22.05	-	-	-	-	8.81	11:24	
	06/26/2015	30.86	21.98	-	-	-	24.50	8.88	10:40	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-10S	04/02/2015	31.24	22.55	22.51	0.04	-	26.05	8.69	11:52	LNAPL not manually bailed
	04/08/2015	31.24	22.53	22.52	0.01	-	26.10	8.71	9:05	LNAPL not manually bailed
	04/13/2015	31.24	22.56	22.53	0.03	-	-	8.68	10:59	LNAPL not manually bailed
	04/23/2015	31.24	22.53	22.51	0.02	-	26.05	8.71	12:22	LNAPL not manually bailed
	04/29/2015	31.24	23.53	23.50	0.03	-	26.00	7.71	14:43	LNAPL not manually bailed
	05/04/2015	31.24	22.57	22.54	0.03	-	-	8.67	11:59	LNAPL not manually bailed
	05/11/2015	31.24	22.86	22.84	0.02	-	26.10	8.38	10:00	LNAPL not manually bailed
	05/21/2015	31.24	22.59	22.56	0.03	-	-	8.65	12:46	LNAPL not manually bailed
	05/28/2015	31.24	22.60	22.56	0.04	-	26.00	8.64	12:01	LNAPL not manually bailed
	06/02/2015	31.24	22.60	22.56	0.04	-	-	8.64	13:20	LNAPL not manually bailed
	06/09/2015	31.24	22.54	22.53	0.01	-	-	8.70	10:40	LNAPL not manually bailed
	06/19/2015	31.24	22.54	22.53	0.01	-	-	8.70	11:34	LNAPL not manually bailed
	06/26/2015	31.24	22.61	22.54	0.07	-	26.00	8.63	11:26	LNAPL not manually bailed
MW-11	04/02/2015	30.85	26.69	-	-	-	33.90	4.16	11:12	
	04/08/2015	30.85	27.00	-	-	-	33.82	3.85	9:25	
	04/13/2015	30.85	26.88	-	-	-	-	3.97	10:32	
	04/23/2015	30.85	26.40	-	-	-	33.85	4.45	11:40	
	04/29/2015	30.85	26.56	-	-	-	33.80	4.29	14:09	
	05/04/2015	30.85	26.39	-	-	-	-	4.46	11:33	
	05/11/2015	30.85	26.35	-	-	-	33.80	4.50	15:05	
	05/21/2015	30.85	26.88	-	-	-	33.90	3.97	12:12	
	05/28/2015	30.85	26.83	-	-	-	33.80	4.02	11:38	
	06/02/2015	30.85	26.50	-	-	-	-	4.35	12:58	
	06/09/2015	30.85	26.23	-	-	-	-	4.62	10:24	
MW-14	04/02/2015	31.22	27.04	-	-	-	37.25	4.18	11:08	
	04/08/2015	31.22	27.30	-	-	-	37.21	3.92	9:26	
	04/13/2015	31.22	27.30	-	-	-	-	3.92	10:55	
	04/23/2015	31.22	26.72	-	-	-	37.25	4.50	11:37	
	04/29/2015	31.22	26.94	-	-	-	37.25	4.28	14:06	
	05/04/2015	31.22	26.77	-	-	-	-	4.45	11:30	
	05/11/2015	31.22	26.71	-	-	-	37.37	4.51	14:52	
	05/12/2015	31.22	27.08	-	-	-	-	4.14	12:15	
	05/21/2015	31.22	26.93	-	-	-	37.33	4.29	12:10	
	05/28/2015	31.22	27.25	-	-	-	37.25	3.97	11:36	
	06/02/2015	31.22	26.92	-	-	-	-	4.30	12:55	
MW-15S	05/11/2015	31.03	25.33	-	-	-	26.00	5.70	9:10	
	05/12/2015	31.03	25.35	-	-	-	-	5.68	12:10	
MW-16S	05/11/2015	31.03	DRY	-	-	-	24.70	-	10:15	
MW-16	05/11/2015	30.97	26.43	-	-	-	35.60	4.54	14:50	
	05/12/2015	30.97	26.90	-	-	-	-	4.07	9:52	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-25S	04/02/2015	31.07	22.40	22.18	0.22	-	25.45	8.67	12:06	LNAPL not manually bailed
	04/08/2015	31.07	22.40	22.08	0.32	-	25.47	8.67	9:15	LNAPL not manually bailed
	04/13/2015	31.07	22.50	22.22	0.28	-	-	8.57	11:03	LNAPL not manually bailed
	04/23/2015	31.07	22.39	22.16	0.23	-	25.50	8.68	12:25	LNAPL not manually bailed
	04/29/2015	31.07	22.35	22.12	0.23	-	25.50	8.68	14:48	LNAPL not manually bailed
	05/04/2015	31.07	22.47	22.19	0.28	-	-	8.68	12:04	LNAPL not manually bailed
	05/11/2015	31.07	22.45	22.20	0.25	-	-	8.68	11:00	LNAPL not manually bailed
	05/21/2015	31.07	22.40	22.23	0.17	-	-	8.68	12:53	LNAPL not manually bailed
	05/28/2015	31.07	22.60	22.27	0.33	-	25.50	8.68	12:06	LNAPL not manually bailed
	06/02/2015	31.07	22.53	22.25	0.28	-	-	8.68	13:24	LNAPL not manually bailed
	06/09/2015	31.07	22.38	22.16	0.22	-	-	8.68	10:46	LNAPL not manually bailed
	06/16/2015	31.07	22.37	22.13	0.24	-	-	8.68	11:40	LNAPL not manually bailed
	06/26/2015	31.07	22.35	22.12	0.23	-	25.40	8.68	11:28	LNAPL not manually bailed
MW-25	04/02/2015	31.13	27.60	26.85	0.75	-	35.80	3.53	12:09	LNAPL not manually bailed
	04/08/2015	31.13	28.00	27.15	0.85	-	35.90	3.13	9:10	LNAPL not manually bailed
	04/13/2015	31.13	27.98	27.05	0.93	-	-	3.15	11:06	LNAPL not manually bailed
	04/23/2015	31.13	27.21	26.47	0.74	-	35.90	3.92	12:28	LNAPL not manually bailed
	04/29/2015	31.13	27.50	26.67	0.83	-	35.90	3.63	14:52	LNAPL not manually bailed
	05/04/2015	31.13	27.37	26.57	0.80	-	-	3.76	12:08	LNAPL not manually bailed
	05/11/2015	31.13	27.50	27.43	0.07	-	-	3.63	15:10	LNAPL not manually bailed
	05/13/2015	31.13	28.31	27.19	1.12	1.50	-	2.82	12:53	
	05/21/2015	31.13	26.85	26.82	0.03	-	-	4.28	12:50	LNAPL not manually bailed
	05/28/2015	31.13	27.55	27.09	0.46	-	35.80	3.58	12:10	LNAPL not manually bailed
	06/02/2015	31.13	27.10	26.74	0.36	-	-	4.03	13:28	LNAPL not manually bailed
	06/09/2015	31.13	26.91	26.46	0.45	-	-	4.22	10:50	LNAPL not manually bailed
	06/16/2015	31.13	26.86	26.56	0.30	-	-	4.27	11:43	LNAPL not manually bailed
	06/26/2015	31.13	26.91	26.48	0.43	-	35.80	4.22	11:31	LNAPL not manually bailed
MW-27	04/02/2015	31.43	27.28	-	-	-	34.05	4.15	11:15	
	04/08/2015	31.43	27.55	-	-	-	34.04	3.88	9:30	
	04/13/2015	31.43	27.53	-	-	-	-	3.90	10:14	
	04/23/2015	31.43	26.92	-	-	-	34.05	4.51	11:33	
	04/29/2015	31.43	27.18	-	-	-	34.05	4.25	13:52	
	05/04/2015	31.43	26.96	-	-	-	-	4.47	11:26	
	05/11/2015	31.43	26.86	-	-	-	34.04	4.57	15:15	
	05/13/2015	31.43	27.55	-	-	-	-	3.88	9:52	
	05/21/2015	31.43	27.12	-	-	-	34.12	4.31	12:02	
	05/28/2015	31.43	27.51	-	-	-	34.00	3.92	11:25	
	06/02/2015	31.43	27.11	-	-	-	-	4.32	12:45	
	06/09/2015	31.43	26.92	-	-	-	-	4.51	10:11	
	06/16/2015	31.43	26.86	-	-	-	-	4.57	11:05	
	06/26/2015	31.43	26.87	-	-	-	34.00	4.56	10:15	
MW-30S	04/02/2015	30.67	24.27	-	-	-	25.30	6.40	11:02	
	04/08/2015	30.67	24.30	-	-	-	25.29	6.37	9:31	
	04/13/2015	30.67	24.31	-	-	-	-	6.36	10:28	
	04/23/2015	30.67	DRY	-	-	-	25.28	-	11:23	
	04/29/2015	30.67	24.27	-	-	-	25.25	6.40	13:38	
	05/04/2015	30.67	24.32	-	-	-	-	6.35	11:23	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-30S	05/11/2015	30.67	24.41	-	-	-	25.20	6.26	10:50	
	05/13/2015	30.67	24.41	-	-	-	-	6.26	9:50	
	05/21/2015	30.67	24.68	-	-	-	25.15	5.99	12:04	
	05/28/2015	30.67	24.67	-	-	-	25.28	6.00	11:21	
	06/02/2015	30.67	24.55	-	-	-	-	6.12	12:51	
	06/09/2015	30.67	24.30	-	-	-	-	6.37	10:17	
	06/16/2015	30.67	24.33	-	-	-	-	6.34	11:08	
	06/22/2015	Destroyed during overdrilling activities; replaced with RW-30S								
MW-31	04/02/2015	31.23	27.04	-	-	-	35.45	4.19	11:04	
	04/08/2015	31.23	27.27	-	-	-	35.42	3.96	9:32	
	04/13/2015	31.23	27.35	-	-	-	-	3.88	10:25	
	04/23/2015	31.23	26.67	-	-	-	35.45	4.56	11:27	
	04/29/2015	31.23	26.97	-	-	-	35.40	4.26	13:34	
	05/04/2015	31.23	26.75	-	-	-	-	4.48	11:20	
	05/11/2015	31.23	26.65	-	-	-	35.40	4.58	14:55	
	05/13/2015	31.23	27.35	-	-	-	-	3.88	9:47	
	05/21/2015	31.23	26.87	-	-	-	35.50	4.36	12:06	
	05/28/2015	31.23	27.31	-	-	-	35.40	3.92	11:23	
	06/02/2015	31.23	26.87	-	-	-	-	4.36	12:48	
	06/09/2015	31.23	26.71	-	-	-	-	4.52	10:14	
	06/16/2015	31.23	26.68	-	-	-	-	4.55	11:11	
	06/26/2015	31.23	26.58	-	-	-	35.20	4.65	9:20	
MW-33	05/11/2015	30.93	26.22	-	-	-	34.40	4.71	14:54	
	05/13/2015	30.93	26.90	-	-	-	34.40	4.03	9:45	
MW-51S	04/02/2015	30.81	21.80	-	-	-	25.30	9.01	11:27	
	04/08/2015	30.81	21.75	-	-	-	25.19	9.06	8:55	
	04/13/2015	30.81	21.87	-	-	-	-	8.94	10:44	
	04/23/2015	30.81	21.89	-	-	-	25.25	8.92	11:59	
	04/29/2015	30.81	21.88	-	-	-	25.25	8.93	14:26	
	05/04/2015	30.81	21.89	-	-	-	-	8.92	11:43	
	05/11/2015	30.81	21.93	-	-	-	24.50	8.88	10:45	
	05/13/2015	30.81	21.95	-	-	-	-	8.86	10:00	
	05/21/2015	30.81	21.68	-	-	-	25.35	9.13	12:12	
	05/28/2015	30.81	21.93	-	-	-	25.30	8.88	11:47	
	06/09/2015	30.81	21.85	-	-	-	-	8.96	10:34	
	06/16/2015	30.81	21.79	-	-	-	-	9.02	11:27	
	06/26/2015	30.81	21.62	-	-	-	-	9.19	10:35	

Table 2



GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-51	04/02/2015	30.97	27.78	27.75	0.03	-	36.05	3.19	11:46	LNAPL not manually bailed
	04/08/2015	30.97	27.15	27.02	0.13	-	36.11	3.82	9:00	LNAPL not manually bailed
	04/13/2015	30.97	27.09	26.98	0.11	-	-	3.88	10:47	LNAPL not manually bailed
	04/23/2015	30.97	26.42	26.35	0.07	-	36.05	4.55	12:17	LNAPL not manually bailed
	04/29/2015	30.97	26.71	26.60	0.11	-	36.00	4.26	14:39	LNAPL not manually bailed
	05/04/2015	30.97	26.54	26.48	0.06	-	-	4.43	11:46	LNAPL not manually bailed
	05/11/2015	30.97	26.44	26.40	0.04	-	-	4.53	15:00	LNAPL not manually bailed
	05/13/2015	30.97	27.31	27.10	0.21	0.03	-	3.66	12:35	
	05/21/2015	30.97	26.74	26.71	0.03	-	-	4.23	12:10	LNAPL not manually bailed
	05/28/2015	30.97	27.10	26.95	0.15	-	36.05	3.87	11:58	LNAPL not manually bailed
	06/02/2015	30.97	26.85	26.82	0.03	-	-	4.12	13:07	LNAPL not manually bailed
	06/09/2015	30.97	26.75	26.72	0.03	-	-	4.22	10:37	LNAPL not manually bailed
	06/16/2015	30.97	26.57	26.54	0.03	-	-	4.40	11:30	LNAPL not manually bailed
	06/26/2015	30.97	26.44	26.31	0.13	-	36.00	4.53	11:23	LNAPL not manually bailed
MW-52	05/11/2015	30.17	25.81	-	-	-	35.65	4.36	14:45	
	05/12/2015	30.17	26.10	-	-	-	-	4.07	9:50	
MW-70	05/11/2015	30.86	26.02	-	-	-	35.15	4.84	14:55	
	05/12/2015	30.86	26.21	-	-	-	-	4.65	14:05	
MW-72S	04/02/2015	30.63	21.78	-	-	-	23.90	8.85	10:55	
	04/08/2015	30.63	21.82	-	-	-	23.87	8.81	9:35	
	04/13/2015	30.63	21.86	-	-	-	-	8.77	10:08	
	04/23/2015	30.63	21.86	-	-	-	23.87	8.77	11:12	
	04/29/2015	30.63	21.85	-	-	-	23.85	8.78	13:56	
	05/04/2015	30.63	21.84	-	-	-	-	8.79	11:06	
	05/11/2015	30.63	21.91	-	-	-	23.90	8.72	10:48	
	05/13/2015	30.63	21.90	-	-	-	-	8.73	9:57	
	05/21/2015	30.63	21.88	-	-	-	23.90	8.75	11:47	
	05/28/2015	30.63	22.04	-	-	-	23.90	8.59	11:27	
MW-72S	06/02/2015	30.63	22.03	-	-	-	-	8.60	12:30	
	06/09/2015	30.63	21.67	-	-	-	-	8.96	9:56	
	06/16/2015	30.63	21.68	-	-	-	-	8.95	10:50	
MW-72	06/26/2015	30.63	21.55	-	-	-	23.80	9.08	10:17	
	04/02/2015	31.06	26.86	-	-	-	34.15	4.20	10:57	
	04/08/2015	31.06	27.20	-	-	-	33.98	3.86	9:40	
	04/13/2015	31.06	27.11	-	-	-	-	3.95	10:11	
	04/23/2015	31.06	26.61	-	-	-	34.13	4.45	11:15	
	04/29/2015	31.06	26.76	-	-	-	33.95	4.30	14:00	
	05/04/2015	31.06	26.60	-	-	-	-	4.46	11:09	
	05/11/2015	31.06	26.55	-	-	-	33.90	4.51	14:58	
	05/13/2015	31.06	27.12	-	-	-	-	3.94	9:55	
	05/21/2015	31.06	26.81	-	-	-	34.04	4.25	11:49	
	05/28/2015	31.06	27.05	-	-	-	34.00	4.01	11:28	
	06/02/2015	31.06	26.68	-	-	-	-	4.38	12:33	
	06/09/2015	31.06	26.46	-	-	-	-	4.60	10:00	
	06/16/2015	31.06	26.48	-	-	-	-	4.58	10:53	
	06/26/2015	31.06	26.42	-	-	-	34.00	4.64	10:19	
MW-100S	05/11/2015	31.06	21.55	-	-	-	24.20	9.51	9:55	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-100	05/11/2015	30.78	26.17	-	-	-	36.60	4.61	14:57	
MW-102	05/11/2015	29.72	24.44	-	-	-	36.40	5.28	15:01	
MW-103	05/11/2015	11.07	4.67	-	-	-	14.88	6.40	10:20	
MW-104	05/11/2015	12.00	4.51	-	-	-	12.10	7.49	10:25	
MW-105	05/11/2015	10.94	2.40	-	-	-	9.70	8.54	10:35	
MW-106	04/02/2015	11.12	7.15	-	-	-	9.85	3.97	10:47	
	04/08/2015	11.12	7.55	-	-	-	9.87	3.57	9:46	
	04/13/2015	11.12	7.63	-	-	-	-	3.49	10:18	
	04/23/2015	11.12	6.70	-	-	-	9.85	4.42	11:00	
	04/29/2015	11.12	7.15	-	-	-	9.85	3.97	13:34	
	05/04/2015	11.12	7.23	-	-	-	-	3.89	11:17	
	05/11/2015	11.12	7.43	-	-	-	9.85	3.69	14:51	
	05/12/2015	11.12	7.50	-	-	-	-	3.62	10:35	
	05/21/2015	11.12	7.62	-	-	-	9.85	3.50	11:55	
	05/28/2015	11.12	7.81	-	-	-	9.80	3.31	11:11	
	06/02/2015	11.12	6.66	-	-	-	-	4.46	12:38	
	06/09/2015	11.12	6.37	-	-	-	-	4.75	10:04	
	06/16/2015	11.12	7.21	-	-	-	-	3.91	11:01	
	06/26/2015	11.12	6.27	-	-	-	9.90	4.85	9:13	
MW-107	04/02/2015	15.74	8.63	-	-	-	11.00	7.11	10:49	
	04/08/2015	15.74	9.00	-	-	-	11.00	6.74	9:45	
	04/13/2015	15.74	9.06	-	-	-	-	6.68	10:21	
	04/23/2015	15.74	7.18	-	-	-	11.00	8.56	11:04	
	04/29/2015	15.74	9.14	-	-	-	11.00	6.60	13:39	
	05/04/2015	15.74	9.03	-	-	-	-	6.71	11:14	
	05/11/2015	15.74	9.19	-	-	-	11.00	6.55	14:49	
	05/12/2015	15.74	9.25	-	-	-	-	6.49	10:37	
	05/21/2015	15.74	9.21	-	-	-	11.00	6.53	11:57	
	05/28/2015	15.74	9.27	-	-	-	11.00	6.47	11:13	
	06/02/2015	15.74	3.95	-	-	-	-	11.79	12:41	
	06/09/2015	15.74	6.78	-	-	-	-	8.96	10:07	
	06/16/2015	15.74	9.05	-	-	-	-	6.69	10:58	
	06/26/2015	15.74	6.86	-	-	-	11.00	8.88	9:15	
MW-108	05/11/2015	15.61	DRY	-	-	-	9.20	-	14:47	
	05/12/2015	15.61	DRY	-	-	-	-	-	10:40	
MW-109S	05/11/2015	19.27	11.31	-	-	-	13.20	7.96	15:06	
	05/12/2015	19.27	11.28	-	-	-	13.20	7.99	10:00	
	05/21/2015	19.27	11.40	-	-	-	13.06	7.87	12:34	
MW-109	05/11/2015	19.16	14.61	-	-	-	22.84	4.55	15:04	
	05/12/2015	19.16	14.77	-	-	-	22.84	4.39	9:57	
	05/21/2015	19.16	15.23	-	-	-	22.80	3.93	12:36	
MW-110S	05/11/2015	19.13	12.24	-	-	-	12.65	6.89	14:56	
	05/12/2015	19.13	12.24	-	-	-	12.65	6.89	9:47	
	05/21/2015	19.13	11.55	-	-	-	12.67	7.58	12:38	
MW-110	05/11/2015	19.51	14.74	-	-	-	23.42	4.77	14:54	
	05/12/2015	19.51	14.91	-	-	-	23.42	4.60	9:44	
	05/21/2015	19.51	15.40	-	-	-	23.36	4.11	12:40	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
MW-111	05/11/2015	19.17	14.66	-	-	-	21.87	4.51	14:51	
	05/12/2015	19.17	14.78	-	-	-	21.87	4.39	9:41	
MW-112S	05/11/2015	19.22	11.21	-	-	-	12.44	8.01	15:01	
	05/12/2015	19.22	11.21	-	-	-	12.44	8.01	9:54	
MW-112	05/11/2015	19.08	14.52	-	-	-	22.83	4.56	14:59	
	05/12/2015	19.08	14.64	-	-	-	22.83	4.44	9:51	
MW-113	05/11/2015	19.11	14.58	-	-	-	22.77	4.53	14:48	
	05/12/2015	19.11	14.81	-	-	-	22.77	4.30	9:38	
MW-114	05/11/2015	19.26	14.52	-	-	-	22.75	4.74	14:45	
	05/12/2015	19.26	14.51	-	-	-	22.75	4.75	9:35	
RW-1	04/02/2015	31.19	27.02	-	-	-	40.60	4.17	11:23	
	04/08/2015	31.19	27.30	-	-	-	40.55	3.89	8:45	
	04/13/2015	31.19	27.18	-	-	-	-	4.01	10:38	
	04/23/2015	31.19	26.67	-	-	-	40.65	4.52	11:52	
	04/29/2015	31.19	26.87	-	-	-	40.70	4.32	14:19	
	05/04/2015	31.19	26.72	-	-	-	-	4.47	11:36	
	05/11/2015	31.19	26.70	-	-	-	40.78	4.49	15:03	
	05/12/2015	31.19	26.92	-	-	-	40.63	4.27	14:15	
	05/21/2015	31.19	26.90	-	-	-	40.70	4.29	12:20	
	05/28/2015	31.19	27.11	-	-	-	40.60	4.08	11:43	
	06/02/2015	31.19	26.79	-	-	-	-	4.40	13:01	
	06/09/2015	31.19	26.57	-	-	-	-	4.62	10:27	
	06/16/2015	31.19	26.60	-	-	-	-	4.59	11:21	
	06/26/2015	31.19	26.52	-	-	-	40.50	4.67	10:37	
RW-30S	06/26/2015	NR	Dry	-	-	-	28.40	-	9:28	
TW-02	05/11/2015	16.11	14.38	-	-	-	20.80	1.73	15:18	
TW-03	05/11/2015	10.40	7.74	-	-	-	13.10	2.66	15:23	
TW-04	04/02/2015	9.49	5.85	-	-	-	13.25	3.64	10:28	
	04/08/2015	9.49	6.20	-	-	-	13.25	3.29	10:00	
	04/13/2015	9.49	6.28	-	-	-	-	3.21	9:55	
	04/23/2015	9.49	5.44	-	-	-	13.25	4.05	10:43	
	04/29/2015	9.49	5.85	-	-	-	13.25	3.64	13:15	
	05/04/2015	9.49	5.75	-	-	-	-	3.74	10:50	
	05/11/2015	9.49	5.83	-	-	-	13.20	3.66	15:33	
	05/21/2015	9.49	5.89	-	-	-	13.27	3.60	13:05	
	05/28/2015	9.49	6.28	-	-	-	13.25	3.21	10:55	
	06/02/2015	9.49	5.01	-	-	-	-	4.48	12:15	
	06/09/2015	9.49	5.17	-	-	-	-	4.32	9:45	
	06/16/2015	9.49	5.67	-	-	-	-	3.82	10:35	
	06/26/2015	9.49	4.98	-	-	-	13.20	4.51	8:45	

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Adj. GW Elevation (ft)	Time	Comments
TW-05	04/02/2015	9.64	6.00	-	-	-	12.10	3.64	10:30	
	04/08/2015	9.64	6.41	-	-	-	12.14	3.23	10:05	
	04/13/2015	9.64	6.53	-	-	-	-	3.11	9:58	
	04/23/2015	9.64	5.48	-	-	-	12.20	4.16	10:45	
	04/29/2015	9.64	5.99	-	-	-	12.20	3.65	13:17	
	05/04/2015	9.64	5.94	-	-	-	-	3.70	10:53	
	05/11/2015	9.64	6.12	-	-	-	12.30	3.52	15:39	
	05/21/2015	9.64	6.15	-	-	-	12.48	3.49	13:07	
	05/28/2015	9.64	6.56	-	-	-	12.50	3.08	10:57	
	06/02/2015	9.64	4.05	-	-	-	-	5.59	12:18	
	06/09/2015	9.64	4.63	-	-	-	-	5.01	9:48	
	06/16/2015	9.64	5.99	-	-	-	-	3.65	10:38	
	06/26/2015	9.64	4.52	-	-	-	12.80	5.12	8:47	
TW-06	04/02/2015	9.86	6.20	-	-	-	12.65	3.66	10:32	
	04/08/2015	9.86	6.66	-	-	-	12.62	3.20	10:15	
	04/13/2015	9.86	6.76	-	-	-	-	3.10	10:01	
	04/23/2015	9.86	5.62	-	-	-	12.60	4.24	10:47	
	04/29/2015	9.86	6.22	-	-	-	12.65	3.64	13:19	
	05/04/2015	9.86	6.14	-	-	-	-	3.72	10:56	
	05/11/2015	9.86	6.38	-	-	-	12.70	3.48	15:40	
	05/21/2015	9.86	6.24	-	-	-	12.65	3.62	13:09	
	05/28/2015	9.86	6.79	-	-	-	12.60	3.07	10:59	
	06/02/2015	9.86	4.41	-	-	-	-	5.45	12:21	
	06/09/2015	9.86	5.28	-	-	-	-	4.58	9:51	
	06/16/2015	9.86	6.24	-	-	-	-	3.62	10:41	
	06/26/2015	9.86	5.08	-	-	-	12.70	4.78	8:49	
TW-07	05/11/2015	9.88	6.92	-	-	-	12.70	2.96	15:27	
TW-12S	05/11/2015	31.33	24.82	-	-	-	24.90	6.51	10:40	
TW-14	05/11/2015	11.61	3.28	-	-	-	6.90	8.33	10:30	

- = Not available
ft = Feet
gal = gallons
DRY = No / Insufficient water
LNAPL = Light Non-Aqueous Phase Liquid
NA = Not applicable
NR = Not recorded
TRACE = LNAPL thickness is less than 0.01 feet

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-01S	8/15/2014	-	-	-	-	-	-	-	-	-	-	2,670	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	23,000	-
MW-05	5/13/2015	-	-	-	-	-	-	-	-	-	-	-	937,000
	6/25/2015	-	-	-	-	-	-	-	-	-	-	-	277,000
MW-08S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,540	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	52,000	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	22,000	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	27,000	-
MW-10S	8/15/2014	-	-	-	-	-	-	-	-	-	-	36,000	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	100,000	-
MW-11	8/16/2014	-	-	-	-	-	-	-	-	-	-	423	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	840	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	920	-
	5/12/2015	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	-	900	-
MW-14	8/15/2014	-	-	-	-	-	-	-	-	-	-	305	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,100	-
	2/25/2015	-	-	-	-	-	-	-	-	-	-	6,000	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	5,500	-
MW-15S	8/15/2014	-	-	-	-	-	-	-	-	-	-	909	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,800	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	2,800	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	1,800	-
MW-16S	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,720	-
MW-16	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300	-
	10/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45	1,700
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	<1,400
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45	1800 J
MW-25S	8/15/2014	-	-	-	-	-	-	-	-	-	-	49,000	-
	12/5/2014	-	-	-	-	-	-	-	-	-	-	840,000	-
	1/9/2015	-	-	-	-	-	-	-	-	-	-	2,200,000	-

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-25	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,280	-
	12/5/2014	-	-	-	-	-	-	-	-	-	-	50,000	-
	1/9/2015	-	-	-	-	-	-	-	-	-	-	56,000	-
	5/13/2015	-	-	-	-	-	-	-	-	-	-	-	949,000
	6/25/2015	-	-	-	-	-	-	-	-	-	-	-	32,400
MW-27	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,490	-
	10/23/2014	0.5	<0.5	2	2	<0.5	2	<0.5	<0.5	6	100	1,900	<1,400
	2/25/2015	<0.5	<0.5	1	0.5	<0.5	<2	<0.5	<0.5	8.3	120	1,700	16,800
	5/13/2015	<0.5	<0.5	2	1	<0.5	2 J	<0.5	<0.5	30	260	19,000	9,800
MW-30S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,040	-
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	-	25	2,900	-
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3.9	22	3,500	3,600
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	3,200	-
MW-31	8/16/2014	-	-	-	-	-	-	-	-	-	-	27,200	-
	10/23/2014	<0.5	<0.5	0.6	0.6	<0.5	<2	<0.5	<0.5	4	140	7,200	<1,400
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.7	97	1,800	1,800
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	120	14,000	20,800
MW-33	8/15/2014	-	-	-	-	-	-	-	-	-	-	440	-
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45	<1,400
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	1,600
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.1	<20	<45	<1,400
MW-51S	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,590	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	8,400	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	7,100	-
	5/13/2015	-	-	-	-	-	-	-	-	-	-	17,000	-
MW-51	8/11/2014	-	-	-	-	-	-	-	-	-	-	1,180	-
	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,650	-
	8/16/2014	-	-	-	-	-	-	-	-	-	-	281,000	-
	5/13/2015	-	-	-	-	-	-	-	-	-	-	-	842,000
	6/25/2015	-	-	-	-	-	-	-	-	-	-	-	7,100

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-52	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	120	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-70	8/15/2014	-	-	-	-	-	-	-	-	-	-	<153	-
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	3,200	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	100	-
MW-72S	8/15/2014	-	-	-	-	-	-	-	-	-	-	5,980	-
	10/22/2014	-	-	-	-	-	-	-	-	-	-	3,300	-
	2/25/2015	-	-	-	-	-	-	-	-	-	-	3,400	-
	5/13/2015	13	<0.5	24	<0.5	<0.5	<2	<0.5	<0.5	16.00	-	4,000	-
MW-72	8/11/2014	-	-	-	-	-	-	-	-	-	-	<300	-
	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,100	-
	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,340	-
	10/22/2014	41	<0.5	1	66	0.6	2	<0.5	<0.5	61	480	2,000	1,800
	2/25/2015	8	<0.5	<0.5	3	<0.5	<2	<0.5	<0.5	<0.030	65	590	2,300
	5/13/2015	13	<0.5	<0.5	6	<0.5	<2	<0.5	<0.5	13.00	120	630	<1,400
MW-100S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300	-
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	690	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-100	8/15/2014	-	-	-	-	-	-	-	-	-	-	<152	-
	10/21/2014	-	-	-	-	-	-	-	-	-	-	60	-
	2/25/2015	-	-	-	-	-	-	-	-	-	-	300	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-102	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-103	8/15/2014	-	-	-	-	-	-	-	-	-	-	479	-
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	26	54	-
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.033	<20	<45	<1,400
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	22 J	<45	<1,400
MW-104	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,630	-
	10/21/2014	<0.5	<0.5	0.7	2	<0.5	<2	<0.5	<0.5	1	59	150	<1,400
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45	<1,400
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45	<1,400
MW-105	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.06	<20	<45	<1,400
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45	<1,400
MW-106	8/15/2014	-	-	-	-	-	-	-	-	-	-	89,200	-
	10/22/2014	<0.5	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	23	230	2,000	-
	2/25/2015	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	130	9,500	5,300
	5/12/2015	<0.5	<0.5	5	<0.5	<0.5	<2	<0.5	<0.5	2 J	75	7,800	9,900
MW-107	8/16/2014	-	-	-	-	-	-	-	-	-	-	8,540	-
	10/22/2014	<0.5	<0.5	2	2	<0.5	<2	<0.5	<0.5	0.9	49	840	-
	2/25/2015	1	<0.5	0.7	0.7	<0.5	<2	<0.5	<0.5	-	37	480	-
	5/12/2015	<0.5	<0.5	2	3	<0.5	<2	<0.5	<0.5	5.00	40 J	150	2,100 J
MW-109S	8/21/2014	-	-	-	-	-	-	-	-	-	-	7,500	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	12,000	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	1,800	-
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	4 J	<0.5	<0.5	<1	-	180	-
MW-109	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	200	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	100	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-110S	8/25/2014	-	-	-	-	-	-	-	-	-	-	6,630	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	8,500	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,700	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	2,300	-

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
MW-110	8/25/2014	-	-	-	-	-	-	-	-	-	-	<153	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-111	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	260	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	150	-
MW-112S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	380	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-112	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-113	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	61	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	90	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
MW-114	8/25/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45	-
RW-1	10/22/2014	-	-	-	-	-	-	-	-	-	-	30,000	-
	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,200	-
	5/12/2015	-	-	-	-	-	-	-	-	-	-	8,400	-
TW-01	12/16/2013	14.3	ND	13.1	63.5	1.55	-	-	-	119	-	14,100	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	27,400	-

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
TW-02	12/16/2013	ND	ND	ND	ND	0.791	-	-	-	ND	-	584	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600	-
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	60	-
	3/4/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	<45	2,000
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45	2,300 J
TW-03	12/16/2013	ND	ND	ND	ND	ND	-	-	-	ND	-	351	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500	-
	10/23/2014	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	49	-
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	180	3,100
	5/13/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	21 J	200	<1,400
TW-04	12/16/2013	2.2	ND	3.45	7.11	ND	-	-	-	27.7	-	2,000	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	1,270	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,610	-
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	160	-
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	27 J	940	3,800
	5/13/2015	1 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	33 J	700	3,500 J
TW-05	12/16/2013	7.68	ND	62.8	40.3	ND	-	-	-	240	-	136,000	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	66,300	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	271,000	-
	10/23/2014	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	140	29,000	-
	3/4/2015	2	<0.50	1	<0.5	<0.5	<2	<0.5	<0.5	3	130	2,200	2,800
	5/13/2015	3	<0.50	<0.50	<0.5	<0.5	<2	<0.5	<0.5	1 J	44 J	1,100	<1,400
TW-06	12/16/2013	1.09	ND	20.3	7.86	ND	-	-	-	174	-	47,000	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	113,000	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	147,000	-
	10/23/2014	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	230	16,000	-
	3/4/2015	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	2.2	170	2,200	1,900
	5/13/2015	2	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	4	130	2,300	2,800 J

Table 3



HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)	Oil and Grease (µg/L)
TW-07	12/16/2013	2.38	ND	0.969	ND	ND	-	-	-	34	-	3,290	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	41,500	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	19,600	-
	10/23/2014	2	<0.5	0.6	<0.5	<0.5	<2	<0.5	<0.5	6	29	4,700	-
	3/4/2015	9	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.2	46 J	670	3,300
	5/13/2015	10	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	36 J	320	<1,400
TW-08S	7/7/2014	-	-	-	-	-	-	-	-	-	-	29,500	-
TW-09S	7/7/2014	-	-	-	-	-	-	-	-	-	-	2,330,000	-
TW-10	12/18/2013	2.51	ND	19.7	4.99	ND	-	-	-	131	-	3,040	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	23,400	-
TW-11	12/18/2013	1.55	0.664	8.3	9.67	0.578	-	-	-	263	-	170,000	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	117,000	-
TW-13	12/18/2013	6.06	ND	44.5	137	ND	-	-	-	239	-	3,580	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	17,500	-
TW-14	1/17/2014	ND	ND	ND	ND	0.536	-	-	-	ND	-	2,290	-
	7/7/2014	-	-	-	-	-	-	-	-	-	-	16,000	-
	8/15/2014	-	-	-	-	-	-	-	-	-	-	3,900	-
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	100	670	-
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	73	120	1,800
	5/12/2015	1.00	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	<1	220	2,000	-

Note: During the 2nd Quarter 2015 sampling event, MW-01S, MW-05, MW-10S, MW-25S, MW-25, and MW-51 were not sampled for standard DEQ parameters due to the presence of LNAPL. MW-16S and MW-108 were not sampled, as the wells were dry. TW-12S was not sampled, as the well contained an insufficient volume of water. MW-05, MW-25, and MW-51 were sampled on 5/13/2015 and 6/25/2015 for HEM Oils and Grease, for permitting purposes.

- = Not available

<# = Less than the method detection limit

µg/L = Micrograms per liter

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.

ND = Non-detect

TPH-DRO = Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28

TPH-GRO = Total Petroleum Hydrocarbons, Gasoline Range Organics C6-C10

Table 4



HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO ₄ (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO ₃)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-01S	10/22/2014	4200	130	0.044 J	0.037 J	306	31.4	-
MW-10S	10/22/2014	1,100	33.1	<0.040	0.037 J	461	62.8	-
MW-11	10/22/2014	120	71.9	<0.040	<0.015	55	0.059	-
	2/26/2015	200	79.8	<0.040	<0.015	39	0.37	1.64
	5/12/2015	280	70.5	<0.040	<0.015	40.8	0.75	1.73
MW-14	2/25/2015	230	51.4	0.7	<0.015	63	2.5	8.66
	5/12/2015	660	44.3	0.6	0.023 J	76.8	6.3	8.54
MW-31	10/23/2014	4,300	57.2	<0.040	<0.015	416	2.6	-
	2/25/2015	5,000	69.7	<0.040	<0.015	487	9.3	9.84
	5/13/2015	5,700	70.1	<0.040	<0.015	510	15.4	10.8
MW-33	10/23/2014	43	253	1.9	<0.015	119	0.068	-
	2/25/2015	9.8	235	2.5	<0.015	55.6	0.030 J	1.23
	5/13/2015	7.3	254	2	<0.015	81.7	0.075	0.975
MW-51S	10/22/2014	7,100	36.3	0.047 J	<0.015	564	28.7	-
	2/26/2015	8,900	6.2	<0.040	0.12	518	82.4	4.49
	5/13/2015	11,000	<1.5	<0.040	0.2	676	77.3	1.74
MW-70	2/26/2015	<3.0	361	0.71	<0.015	35.1	0.048 J	2.62
	5/12/2015	3.4 J	357	0.7	<0.015	40.7	<0.50	6.13
MW-72S	10/22/2014	4,400	80.3	0.093 J	0.019 J	328	9.1	-
	2/25/2015	3,600	64.5	<0.040	<0.015	615	16.7	8.49
	5/13/2015	4,100	130	<0.040	0.097	597	24.6	8.46
MW-72	10/22/2014	2,200	389	<0.040	<0.015	65.5	0.33	-
	2/25/2015	490	396	<0.040	<0.015	72.7	4.8	18.8
	5/13/2015	540	434	<0.040	0.057	101	10.8	17.5
MW-106	2/25/2015	260	1600	<0.040	0.021 J	<7.0	122	2.23
	5/12/2015	960	1160	<0.040	0.15	<0.70	50.1	1.49
MW-109S	10/20/2014	1,000	18.8	<0.040	0.037 J	368	8	-
	2/26/2015	140	55.4	<0.040	<0.015	196	3.1	2.64
	5/12/2015	11	62.7	<0.040	<0.015	126	0.5	2.34
MW-112S	10/20/2014	4.1 J	99	0.71	<0.015	25	0.13	-
	2/26/2015	<3.0	86.7	2.3	<0.015	13.3	0.029 J	0.649
	5/12/2015	<3.0	98.9	2.5	<0.015	13.8	<0.010	0.597
MW-114	10/20/2014	16	40.5	1.5	0.16	66.7	0.066	-
	2/26/2015	<3.0	42.7	1.7	<0.015	68	0.016 J	0.102
	5/12/2015	<3.0	42.4	1.7	<0.015	68.2	0.035 J	0.0465

Table 4



HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO ₄ (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO ₃)	Ferrous Iron (mg/L)	Manganese (mg/L)
TW-03	3/4/2015	2,500	269	<0.040	0.083	49.7	29.7	5.24
	5/13/2015	2,200	298	<0.040	0.13	39	24.6	4.32
TW-05	3/4/2015	2,800	367	<0.040	0.13	89.4	72.6	5.28
	5/13/2015	1,300	463	0.052 J	0.18	66.2	58.6	4.77
TW-07	3/4/2015	1,300	258	<0.040	0.034 J	1.6 J	14.1	4.3
	5/13/2015	800	323	<0.040	0.046 J	1.1 J	9.5	5.62

Note: MW-01S and MW-10S were not sampled for biostimulation parameters during the 2nd Quarter 2015 sampling event due to the presence of LNAPL.

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.

<# = Less than the method detection limit of #

µg/L = Micrograms per liter

mg/L = Milligrams per liter

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-01S	10/10/2014	10.2	6.3	-	-	0.53	6.68	17.69	-95	880	-
	10/20/2014	1.0	6.3	10.1	10.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.8	6.63	17.81	-91.6	369	-
	2/24/2015	8.4	3.0	12.2	26.6	0.1	6.53	16.31	-172.6	723.6	-
	5/11/2015	64.8	1.6	10.8	27.8	-	-	-	-	-	-
MW-05	10/13/2014	15.9	13.0	-	-	-	-	-	-	-	-
	10/15/2014	137.0	9.6	-	-	-	-	-	-	-	-
	2/24/2015	11.4	1.0	15.9	25.3	-	-	-	-	-	-
	5/11/2015	90.2	5.8	11.1	19.6	-	-	-	-	-	-
MW-08S	10/13/2014	21.0	14.5	-	-	0.89	6.68	18.18	-123.6	1,488	-
	10/13/2014	-	-	-	-	0.81	6.7	18.26	-108	1,386	-
	10/14/2014	-	-	-	-	0.16	6.77	18.18	-129	1,424	-
	10/15/2014	8.7	20.4	-	-	0.83	6.68	18.29	-105.8	1,325	-
	10/15/2014	-	-	-	-	0.28	6.66	18.23	-113.1	1,408	-
	10/20/2014	15.9	10.9	6.2	1.9	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.24	6.59	18.27	-98.8	1,276	-
	2/24/2015	49.3	0.4	13.8	15.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.09	6.69	16.81	-137.5	1,236.3	-
MW-10S	10/13/2014	23.1	17.0	-	-	0.75	6.59	18.17	-117.6	1,202	-
	10/13/2014	-	-	-	-	0.6	6.6	18.2	-113	1,185	-
	10/15/2014	8.3	20.4	-	-	0.41	6.54	18.23	-118.5	1,185	-
	10/15/2014	-	-	-	-	0.6	6.56	18.3	-104.5	1,189	-
	10/16/2014	18.5	20.9	-	-	-	-	-	-	-	-
	10/20/2014	25.2	15.2	3.7	0.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.3	6.48	18.44	-72.7	1,002	-
	2/24/2015	54.5	1.0	14.7	3.4	-	-	-	-	-	-
	5/11/2015	22.6	6.5	9.2	7.6	-	-	-	-	-	-
MW-11	10/13/2014	5.4	19.0	-	-	2.3	6.27	18.16	56.2	324	-
	10/13/2014	-	-	-	-	3.23	6.14	18.29	48.6	349	-
	10/15/2014	23.6	15.3	-	-	-	-	-	-	-	-
	10/20/2014	22.0	11.6	6.3	1.9	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.38	5.73	18.38	160.2	323	-
	2/24/2015	3.2	19.3	3.7	0.1	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.12	5.60	17.83	62.6	370	-
	5/11/2015	0.6	20.6	0.2	0.1	0.07	5.66	17.27	91.2	390	-
MW-14	10/13/2014	15.9	17.2	-	-	2.79	6.00	18.13	68	368	-
	10/20/2014	82.4	14.4	3.7	1.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.26	5.79	18.43	216.2	310	-
	2/24/2015	188.0	14.4	0.9	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.25	17.90	-98.6	460.3	-
	5/11/2015	166.8	18.4	2.4	0.2	0.07	6.22	17.30	-69.6	420.0	-
MW-15S	10/13/2014	34.0	12.4	-	-	0.84	6.32	18.03	-17.1	647	-
	10/20/2014	18.2	2.2	11.6	0.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.88	6.48	17.61	-37.4	989	-

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-16S	10/10/2014	9.0	7.2	-	-	-	-	-	-	-	-
	2/24/2015	0.0	5.5	12.4	0.1	1.54	6.11	14.50	60.2	1.6	-
MW-16	10/10/2014	11.1	6.9	-	-	0.46	5.88	17.5	162.4	707	-
	10/22/2014	-	-	-	-	0.87	5.79	17.75	211	681	30,200
	2/24/2015	0.0	20.9	0.3	0.1	2.62	5.92	17.57	101.8	1,009.6	-
	5/11/2015	-	-	-	-	0.49	5.83	17.05	112.4	830	-
MW-25S	10/13/2014	-	-	-	-	0.96	6.46	18.51	-84	914	-
	10/13/2014	13.0	20.3	-	-	-	-	-	-	-	-
	10/15/2014	192.0	19.3	-	-	-	-	-	-	-	-
	10/16/2014	34.4	20.9	-	-	-	-	-	-	-	-
	10/20/2014	30.2	16.6	3.4	0.3	-	-	-	-	-	-
	2/24/2015	127.0	3.6	12.7	2.3	-	-	-	-	-	-
	5/11/2015	51.8	6.5	8.3	6.4	-	-	-	-	-	-
MW-25	10/13/2014	139.0	19.2	-	-	-	-	-	-	-	-
	10/14/2014	79.0	17.5	-	-	-	-	-	-	-	-
	10/15/2014	8.4	20.9	-	-	-	-	-	-	-	-
	10/16/2014	28.2	14.3	-	-	-	-	-	-	-	-
	2/24/2015	121.0	15.4	5.5	1.3	-	-	-	-	-	-
	5/11/2015	263.0	11.6	6.7	0.6	-	-	-	-	-	-
MW-27	10/10/2014	41.5	17.7	-	-	0.28	6.55	17.74	-79.8	1,075	-
	10/15/2014	7.3	20.9	-	-	0.02	6.51	17.97	-36.3	1,057	-
	10/15/2014	21.9	16.1	-	-	1.67	6.37	18.18	44.5	831	-
	10/16/2014	21.9	16.1	-	-	-	-	-	-	-	-
	10/20/2014	25.3	14.3	6.5	8.6	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.54	6.46	17.97	743	153	1,540
	2/24/2015	21.1	2.3	12.2	13.6	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.06	6.61	15.83	-85.6	1,228	-
	5/11/2015	127.3	8.1	7.9	0.0	0.08	6.54	14.84	-110.0	1,300	-
MW-30S	10/10/2014	6.8	7.6	-	-	0.31	6.64	18.5	-59.9	1,155	-
	10/15/2014	15.5	17.2	-	-	-0.01	6.69	19.02	-114.8	1,084	-
	10/15/2014	74.4	10.5	-	-	0.69	6.61	19.43	-60	1,030	-
	10/20/2014	2.8	11.5	4.0	0.0	-	-	-	-	-	-
	2/24/2015	16.5	12.8	0.3	0.2	0.40	6.74	14.15	-51.7	742.2	-
	5/11/2015	49.6	13.4	2.9	0.0	0.81	6.70	13.04	7.0	680	-
MW-31	10/10/2014	120.5	6.2	-	-	0.39	6.97	18.62	-119.7	899	-
	10/15/2014	62.5	15.0	-	-	0.59	6.83	19.04	-119.9	848	-
	10/15/2014	0.0	20.9	-	-	0.90	6.61	19.57	-47.6	541	-
	10/20/2014	11.8	17.4	1.1	0.3	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	6.98	18.69	-15.9	791	728
	2/24/2015	179.0	2.1	0.2	0.3	0.02	7.08	14.47	-164.3	927	-
	5/11/2015	36.9	5.8	4.1	0.1	0.00	7.06	12.74	-129.3	1,010	-

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-33	10/10/2014	1.4	9.7	-	-	0.68	5.81	17.97	157.4	654	-
	10/15/2014	0.5	19.0	-	-	0.09	5.84	18.3	64.9	633	-
	10/15/2014	0.0	20.9	-	-	0.42	5.86	18.3	92.6	658	-
	10/20/2014	1.0	12.0	5.4	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	2.37	6.05	18.24	186.7	698	1,120
	2/24/2015	0.0	20.6	0.1	0.1	2.35	5.51	15.51	88.7	647.9	-
	5/11/2015	21.4	19.0	1.0	0.0	0.47	5.69	14.03	88.0	720	-
MW-51S	10/13/2014	23.0	5.7	-	-	0.64	6.72	18.32	-120	1,457	-
	10/13/2014	1.0	-	-	-	0.75	6.65	18.35	-78.8	1,000	-
	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1,047	-
	10/15/2014	1.2	20.0	-	-	1.62	6.6	18.43	1.5	566	-
	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1,122	-
	10/20/2014	22.3	10.6	6.3	1.5	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1,153	-
	2/24/2015	9.9	0.9	13.5	27.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1,968.2	-
	5/11/2015	40.8	1.2	12.1	28.3	0.02	6.74	16.21	-113.3	1,830	-
MW-51	10/13/2014	135.0	18.0	-	-	-	-	-	-	-	-
	10/15/2014	100.8	14.0	-	-	0.33	6.6	18.57	-86.9	1,014	-
	10/20/2014	31.5	11.6	4.9	3.2	-	-	-	-	-	-
	2/24/2015	35.1	4.7	11.4	6.0	-	-	-	-	-	-
	5/11/2015	100.3	1.2	12.6	5.1	-	-	-	-	-	-
MW-52	10/10/2014	5.4	16.3	-	-	1.15	5.87	17.51	45.9	465	-
MW-70	10/10/2014	0.3	16.2	-	-	2.12	5.76	17.3	98.7	843	-
	2/24/2015	0.0	17.8	1.3	0.2	1.02	5.53	16.71	-36.2	9	-
	5/11/2015	-	-	-	-	0.40	5.49	16.51	120.7	790	-
MW-72S	10/10/2014	21.7	5.8	-	-	0.55	6.42	18.41	-98.2	1,331	-
	10/15/2014	14.5	14.0	-	-	0.04	6.4	18.56	-85.4	1,340	-
	10/15/2014	-	-	-	-	1.7	6.47	18.7	-53	1,246	-
	10/16/2014	95.0	7.8	-	-	-	-	-	-	-	-
	10/20/2014	38.8	9.3	7.4	4.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.92	6.39	17.99	-21.2	904	-
	2/24/2015	30.6	5.4	11.5	1.6	0.09	6.54	16.13	-101.9	1,324.9	-
	5/11/2015	65.0	6.5	9.4	3.3	0.02	6.49	14.58	-110.6	1,340	-
MW-72	10/10/2014	12.2	6.6	-	-	0.48	5.47	17.86	32.6	743	-
	10/15/2014	14.8	16.8	-	-	0.14	5.41	18.04	110.3	733	-
	10/15/2014	-	-	-	-	2.99	5.75	18.09	108.9	739	-
	10/16/2014	6.9	5.2	-	-	-	-	-	-	-	-
	10/20/2014	10.5	2.0	16.8	13.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
	2/24/2015	13.3	14.2	6.9	0.1	0.58	5.48	17.43	82.8	876.5	-
	5/11/2015	64.5	20.6	0.2	0.0	0.03	5.82	15.99	-21.9	1,080	-
MW-100S	10/10/2014	6.5	6.8	-	-	0.4	5.62	18.36	11.8	915	-
	2/24/2015	0.0	17.2	3.5	0.2	4.78	5.79	16.07	25.5	1.6	-

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-100	10/10/2014	0.3	20.4	-	-	2.23	5.38	17.6	148.8	531	-
	2/24/2015	0.0	20.4	0.6	0.2	1.02	5.53	16.8	27.5	309	-
MW-102	10/10/2014	0.6	17.7	-	-	2.44	6.1	17.15	68.2	295	-
MW-103	10/10/2014	8.5	19.4	-	-	1.72	6.41	19.90	71.6	610	-
	10/23/2014	-	-	-	-	7.32	6.15	19.14	149.3	598	-
	2/24/2015	0	19.5	2.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.27	6.17	5.08	85.9	719.6	-
	5/11/2015	-	-	-	-	0.13	5.95	12.40	82.3	680	-
MW-104	10/10/2014	5.8	18.9	-	-	1.98	6.9	19.47	6.1	452	-
	10/21/2014	-	-	-	-	2.17	6.93	18.83	102.6	526	3,250
	2/24/2015	0	15.1	1.1	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.75	7.07	9.30	50.4	495.6	-
	5/11/2015	-	-	-	-	1.24	6.89	12.25	54.8	740	-
MW-105	10/10/2014	11.5	19.0	-	-	3.96	6.9	19.03	56.8	427	-
	10/21/2014	-	-	-	-	4.47	6.89	19.2	155.1	393	2,520
	5/11/2015	-	-	-	-	0.42	5.38	11.11	98.1	27,900	-
MW-106	10/10/2014	9.2	17.1	-	-	1.2	4.66	18.99	122.5	2,231	-
	10/14/2014	4.3	18.3	-	-	-	-	-	-	-	-
	10/20/2014	0.2	15.5	3.8	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.29	5.2	18.35	97.7	1,529	-
	2/24/2015	0.0	7.1	5.4	0.1	1.03	4.63	9.81	62	2,155.8	-
	5/11/2015	0.7	0.2	7.6	0.2	0.03	5.00	11.73	100.8	2,010	-
MW-107	10/10/2014	10.5	11.8	-	-	0.62	3.51	18.9	348.4	2,063	-
	10/15/2014	7.3	13.7	-	-	1.51	3.63	19.54	393	1,047	-
	10/15/2014	-	-	-	-	2.52	3.76	19.36	428.9	1,117	-
	10/20/2014	0.3	7.3	9.4	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	3.4	2.9	19.05	480.1	1,462	-
	2/24/2015	0.0	19.3	1.5	0.1	7.33	3.01	11.73	338.5	15.4	-
	5/11/2015	0.8	9.1	6.7	0.0	0.40	3.36	12.51	425.7	2,010	-
MW-108	10/10/2014	9.5	11.6	-	-	-	-	-	-	-	-
MW-109S	10/10/2014	50.0	11.3	-	-	1.43	6.35	18.2	-83.5	827	-
	10/20/2014	13.8	3.9	13.2	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.35	6.03	18.29	59.2	769	-
	2/24/2015	12.9	1.3	14.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.35	6.19	13.93	36.7	606.5	-
	5/11/2015	4.0	13.8	4.8	0.0	0.33	5.96	12.89	124.7	460	-
MW-109	10/10/2014	11.8	19.1	-	-	1.65	6.03	17.98	35	247	-
	10/20/2014	0.2	20.8	0.6	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.86	5.81	18.04	133.5	261	-
	2/24/2015	6.2	18.5	3.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.71	5.74	15.75	137.9	247.9	-
MW-110S	10/10/2014	9.9	14.4	-	-	0.5	6.32	18.38	-87.8	651	-
	2/24/2015	12.7	4.3	12.8	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	848.9	-

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-110	10/10/2014	13.1	16.4	-	-	1.3	5.39	17.98	117.8	215	-
	2/24/2015	5.8	19.4	1.0	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.7	5.48	15.49	168.1	245	-
MW-111	10/10/2014	7.3	16.9	-	-	1.7	5.82	17.98	75.9	247	-
	2/24/2015	0.0	18.7	1.7	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.21	6.05	15.24	122.6	368.4	-
MW-112S	10/10/2014	25.0	14.7	-	-	1.95	5.46	18.26	148.5	369	-
	10/20/2014	0.0	12.0	7.9	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	2.5	5.38	18.27	172.9	333	-
	2/24/2015	16.8	6.6	9.7	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.92	5.41	13.06	207.5	346.7	-
	5/11/2015	2.1	16.3	3.3	0.0	3.37	5.21	13.22	197.2	360	-
MW-112	10/10/2014	14.8	16.3	-	-	2.14	5.56	17.93	157.3	162	-
	2/24/2015	12.3	19.2	1.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	4.34	5.54	15.13	203.8	170.5	-
MW-113	10/10/2014	6.3	19.2	-	-	6.17	6.35	17.97	83.2	352	-
	2/24/2015	0.0	19.9	1.6	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.96	6.73	14.72	73.5	428.1	-
MW-114	10/10/2014	9.0	6.3	-	-	1.50	5.83	17.65	78	310	-
	10/20/2014	0.1	16.0	2.1	0.1	-	-	-	-	-	-
	10/21/2014	-	-	-	-	1.23	6.04	17.81	154.1	262	-
	2/24/2015	0.0	20.6	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	8.72	6.10	12.05	113.7	326.2	-
	5/11/2015	0.0	19.4	1.0	0.0	3.99	5.99	15.33	199.7	300	-
RW-1	10/13/2014	130.0	19.0	-	-	1.34	6.92	18.45	136.4	495	-
	10/13/2014	79.0	18.9	-	-	3.41	6.41	18.31	158	473	-
	10/14/2014	55.0	18.9	-	-	0.53	6.49	18.46	129.6	475	-
	10/15/2014	80.7	19.3	-	-	1.99	6.29	18.43	60.4	292	-
	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-
	10/20/2014	29.2	16.4	3.2	2.4	-	-	-	-	-	-
	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
	2/24/2015	178.0	3.2	4.2	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	899.9	-
TW-02	10/13/2014	0.3	17.4	-	-	1.01	6.43	18.32	-	523	-
	10/23/2014	-	-	-	-	0.65	6.7	17.24	-63.8	1,189	-
	2/24/2015	0.0	19.9	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.56	6.24	8.82	96.2	990.6	-
	5/11/2015	-	-	-	-	1.62	6.60	21.64	-49.5	1,230	-
TW-03	10/13/2014	0.3	19.5	-	-	1.86	5.73	19.23	-	503	-
	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
	2/24/2015	0.0	3.1	10.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609.4	-
	5/11/2015	0.0	8.5	10.2	0.0	2.03	5.77	20.61	110.5	480	-

Table 5



HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-04	10/13/2014	2.0	19.2	-	-	1.67	5.73	19.08	-	1,344	-
	10/23/2014	-	-	-	-	0.7	5.76	18.95	35	1,232	-
	2/24/2015	1.2	15.7	4.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	2.36	5.86	6.96	65.1	1,862.2	-
	5/11/2015	-	-	-	-	1.92	6.19	19.77	-22.7	1,390	-
TW-05	10/13/2014	129.3	17.0	-	-	1.26	5.23	18.64	61.2	1,204	-
	10/15/2014	8.7	20.5	-	-	-	-	-	-	-	-
	10/20/2014	16.0	20.6	0.1	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.85	5.73	19.04	49.2	1,121	-
	2/24/2015	16.0	11.1	8.6	0.7	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.85	6.19	7.42	37.1	991.6	-
	5/11/2015	22.1	4.6	12.9	0.0	0.15	5.60	18.61	54.0	800	-
TW-06	10/13/2014	39.8	14.4	-	-	1.31	6.42	18.99	-	983	-
	10/15/2014	78.9	11.0	-	-	1.33	6.54	21.65	-65	873	-
	10/15/2014	-	-	-	-	0.31	6.28	19.79	-46.8	986	-
	10/20/2014	0.8	5.4	12.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.84	6.51	18.95	-68.8	823	-
	2/24/2015	0.7	5.0	8.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.75	7.20	-32.9	882.2	-
	5/11/2015	-	-	-	-	1.33	6.49	18.61	-69.1	710	-
TW-07	10/13/2014	33.5	16.4	-	-	1.4	4.96	19.08	-	580	-
	10/15/2014	15.6	15.4	-	-	0.4	4.94	20.81	97.9	569	-
	10/20/2014	0.0	14.6	5.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	4.99	19.04	139.5	415	-
	2/24/2015	0.0	14.4	7.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.53	5.07	7.15	244.8	640.1	-
	5/11/2015	0.0	9.0	11.0	0.0	2.02	4.70	20.64	202.2	660	-
TW-12S	10/10/2014	0.8	18.5	-	-	-	-	-	-	-	-
	2/24/2015	0.0	15.0	2.8	0.3	-	-	-	-	-	-
TW-14	10/10/2014	2.3	19.5	-	-	-	-	-	-	-	-
	10/20/2014	0.0	20.0	0.7	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.99	7.48	19.13	-47.2	562	-
	2/24/2015	0.0	20.3	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.80	7.18	3.96	-6.1	465.3	-
	5/11/2015	-	-	-	-	1.16	7.14	22.53	-114.6	760	-

- = Not available
% = Percent
µS/cm = Microsiemens
deg C = Degrees
mg/L = Milligrams per
mV = Millivolts
ORP = Oxidation-
ppm = Parts per

Table 6



GROUNDWATER SVOCs AND PAHS ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Analyte Date	Units	MW-103 5/12/2015	MW-104 5/12/2015	MW-105 5/12/2015	MW-106 5/12/2015	MW-107 5/12/2015	MW-16 5/12/2015	MW-27 5/13/2015	MW-30S 5/13/2015	MW-31 5/13/2015	MW-33 5/13/2015
1-Methylnaphthalene	ug/l	0.032 J	0.022 J	0.043 J	53	0.38	0.020 J	51	0.087	14	<0.010
2-Methylnaphthalene	ug/l	0.028 J	0.046 J	0.059 J	39	0.80	0.030 J	14	0.15	1.0	<0.010
Acenaphthene	ug/l	0.013 J	<0.010	0.023 J	11	<0.011	<0.010	3.0	<0.012	7.3	<0.010
Acenaphthylene	ug/l	<0.010	<0.010	<0.012	<0.10	0.036 J	<0.010	<0.010	<0.012	<0.010	<0.010
Anthracene	ug/l	<0.010	<0.010	0.023 J	7.0	0.17	<0.010	5.7	0.056 J	7.3	<0.010
Benzo(b)fluoranthene	ug/l	0.059	0.024 J	0.27	2.2	0.26	0.027 J	3.9	1.4	4.0	<0.010
Benzo[a]anthracene	ug/l	0.031 J	0.017 J	0.14	2.7	0.21	0.017 J	4.3	0.30	4.8	<0.010
Benzo[a]pyrene	ug/l	0.031 J	0.015 J	0.17	1.6	0.12	0.015 J	2.9	1.7	3.2	<0.010
Benzo[g,h,i]perylene	ug/l	0.031 J	0.015 J	0.16	1.1	0.10	0.016 J	1.1	1.3	1.2	<0.010
Benzo[k]fluoranthene	ug/l	0.022 J	0.011 J	0.10	0.88	0.099	0.011 J	1.4	0.37	1.5	<0.010
Chrysene	ug/l	0.042 J	0.018 J	0.20	3.0	0.31	0.024 J	3.8	0.61	3.9	<0.010
Dibenz[a,h]anthracene	ug/l	<0.010	<0.010	0.051 J	0.36 J	0.035 J	<0.010	0.37	0.28	0.38	<0.010
Fluoranthene	ug/l	0.055	0.026 J	0.31	9.5	0.63	0.041 J	8.2	0.44	13	0.025 J
Fluorene	ug/l	0.019 J	<0.010	0.024 J	13	0.080	0.013 J	9.2	<0.012	9.0	<0.010
Indeno[1,2,3-cd]pyrene	ug/l	0.029 J	0.015 J	0.15	1.1	0.11	0.016 J	1.1	1.1	1.2	<0.010
Phenanthrene	ug/l	0.042 J	<0.030	0.21	25	0.53	0.031 J	18	0.15	13	<0.030
Pyrene	ug/l	0.047 J	0.024 J	0.25	13	0.54	0.025 J	11	0.88	17	0.031 J

Note: MW-16S, MW-108, and TW-12S were not analyzed for SVOCs and PAHs during the 2015 second quarter sampling event due to insufficient volumes of water.

<# = Less than the method detection limit

µg/L = Micrograms per liter

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.

PAHs = Polycyclic Aromatic Hydrocarbons

SVOCs = Semi-Volatile Organic Compounds

Table 6



GROUNDWATER SVOCs AND PAHS ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Analyte Date	MW-72 5/13/2015	TW-02 5/13/2015	TW-03 5/13/2015	TW-04 5/13/2015	TW-05 5/13/2015	TW-06 5/13/2015	TW-07 5/13/2015
1-Methylnaphthalene	<0.010	0.093	0.071	2.7	0.81	16	0.33
2-Methylnaphthalene	<0.010	0.11	0.037 J	0.076	0.19	0.087	0.25
Acenaphthene	<0.010	0.20	0.26	0.74	0.41	1.6	<0.010
Acenaphthylene	<0.010	0.085	0.028 J	<0.010	<0.010	<0.010	<0.010
Anthracene	<0.010	0.13	0.068	0.10	0.071	0.18	<0.010
Benzo(b)fluoranthene	0.011 J	0.70	0.21	0.070	0.048 J	<0.010	0.053
Benzo[a]anthracene	<0.010	0.51	0.17	0.049 J	0.046 J	0.015 J	0.034 J
Benzo[a]pyrene	<0.010	0.56	0.18	0.042 J	0.031 J	<0.010	0.041 J
Benzo[g,h,i]perylene	<0.010	0.47	0.12	0.034 J	0.028 J	<0.010	0.036 J
Benzo[k]fluoranthene	<0.010	0.27	0.088	0.029 J	0.015 J	<0.010	0.021 J
Chrysene	0.012 J	0.59	0.17	0.069	0.071	0.023 J	0.045 J
Dibenz[a,h]anthracene	<0.010	0.13	0.032 J	<0.010	<0.010	<0.010	<0.010
Fluoranthene	0.022 J	1.0	0.25	0.28	0.099	0.074	0.054
Fluorene	<0.010	0.12	0.43	0.37	0.42	<0.010	0.058
Indeno[1,2,3-cd]pyrene	<0.010	0.40	0.12	0.033 J	0.022 J	<0.010	0.032 J
Phenanthrene	<0.031	0.64	0.27	0.21	0.084	1.0	<0.030
Pyrene	0.029 J	1.0	0.23	0.21	0.36	0.24	0.15

Table 7



Alexandria Renew Discharge Permit Sampling

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Analyte	Units	MW-05		MW-25		MW-31	MW-51		MW-72
Date		5/13/2015	5/12/2015	5/13/2015	6/25/2015	5/13/2015	5/13/2015	6/25/2015	5/13/2015
Arsenic	mg/l	0.0074 J	-	<0.0072	-	0.0177J	<0.0072	-	<0.0072
Cadmium	mg/l	0.00049 J	-	0.00052 J	-	<0.00033	0.00067 J	-	0.0023 J
Chromium	mg/l	0.0192	-	0.0119 J	-	0.0202	0.0071 J	-	0.0073 J
Copper	mg/l	0.0206	-	0.0130	-	0.339	0.0090 J	-	0.0063 J
Lead	mg/l	0.0320	-	0.0109 J	-	0.0282	0.0179	-	0.0098 J
Molybdenum	mg/l	0.0041 J	-	<0.0017	-	0.0037 J	0.0033 J	-	<0.0017
Nickel	mg/l	0.0230	-	0.0314	-	0.0581	0.0352	-	0.113
Silver	mg/l	<0.0018	-	<0.0018	-	<0.0018	0.0031 J	-	<0.0018
Mercury	mg/l	<0.000050	-	0.00016 J	-	0.000059 J	<0.000050	-	0.000084 J
Total Cyanide	mg/l	0.0057 J	-	<0.0050	-	<0.0050	0.026	-	<0.0050
HEM Oil and Grease	mg/l	937	277	949	32.4	20.8	842	7.1	<1.4

Note: MW-05, MW-25, and MW-51 were re-sampled for HEM Oil and Grease due to the presence of product in the 5/13/2015 samples

<# = Less than the method detection limit

mg/L = Milligrams per liter

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.

ATTACHMENT A

Laboratory Groundwater Analytical Reports

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

July 13, 2015

Project: NRG PRGS

Submittal Date: 06/26/2015

Group Number: 1572697

PO Number: NRG PRGS

Release Number: 0402925

State of Sample Origin: VA

Client Sample DescriptionMW-05 Grab Groundwater
MW-51 Grab Groundwater
MW-25 Grab GroundwaterLancaster Labs (LL) #7946616
7946617
7946618

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

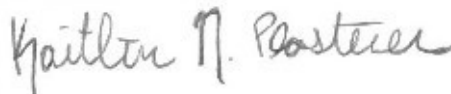
Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC GES
COPY TO
ELECTRONIC GES, Inc.-MD
COPY TO

Attn: Greg Reichart

Attn: Data Distribution

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7946616
LL Group # 1572697
Account # 08390

Project Name: NRG PRGS

Collected: 06/25/2015 08:15 by LK

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/13/2015 08:25

1350 Blair Dr

Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
08079	HEM (oil & grease)	n.a.	277	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	15191807901A	07/10/2015 08:41	Yolunder Y Bunch	1

Sample Description: MW-51 Grab Groundwater
NRG - PRGS

LL Sample # WW 7946617
LL Group # 1572697
Account # 08390

Project Name: NRG PRGS

Collected: 06/25/2015 09:50 by LK

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/13/2015 08:25

1350 Blair Dr

Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
08079	HEM (oil & grease)	n.a.	7.1	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	15189807901A	07/08/2015 17:42	Michelle L Lalli	1

Sample Description: MW-25 Grab Groundwater
NRG - PRGS

LL Sample # WW 7946618
LL Group # 1572697
Account # 08390

Project Name: NRG PRGS

Collected: 06/25/2015 10:30 by LK

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/13/2015 08:25

1350 Blair Dr

Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
08079	HEM (oil & grease)	n.a.	32.4	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	15189807901A	07/08/2015 17:42	Michelle L Lalli	1

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1572697

Reported: 07/13/2015 08:25

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15189807901A HEM (oil & grease)	Sample number(s): 7946617-7946618 N.D.	1.4	mg/l	100	89	78-114	12*	11
Batch number: 15191807901A HEM (oil & grease)	Sample number(s): 7946616 N.D.	1.4	mg/l	82	85	78-114	3	11

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15189807901A HEM (oil & grease)	Sample number(s): 7946617-7946618 UNSPK: P951617 85		78-114						
Batch number: 15191807901A HEM (oil & grease)	Sample number(s): 7946616 UNSPK: P946747 92		78-114						

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



**Lancaster Laboratories
Environmental**

Acct. # 8340 Group # 1572697 Sample # 7946616-18

Environmental Analysis Request/Chain of Custody

[illegible]

Client: GES**Delivery and Receipt Information**

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>06/26/2015 18:08</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>3</u>
State/Province of Origin:	<u>VA</u>		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Jordan Woods (6698) at 19:23 on 06/26/2015***Samples Chilled Details***Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT146	0.4	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

July 10, 2015

Project: NRG PRGS

Submittal Date: 06/26/2015

Group Number: 1572696

PO Number: NRG PRGS

Release Number: 0402925

State of Sample Origin: VA

Client Sample DescriptionRW-30S 28.25-29' Grab Soil
RW-117S 29-30' Grab Soil
MW-122 23-24' Grab SoilLancaster Labs (LL) #7946613
7946614
7946615

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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GES, Inc.-MD
GES Inc.

Attn: Data Distribution

Attn: Andrea Taylorson-Collins

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: RW-30S 28.25-29' Grab Soil
NRG - PRGS

LL Sample # SW 7946613
LL Group # 1572696
Account # 08390

Project Name: NRG PRGS

Collected: 06/23/2015 09:17 by SA

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/10/2015 19:18

1350 Blair Dr

Odenton MD 21113

NG30S

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	23	38.94
10237	Ethylbenzene	100-41-4	N.D.	46	38.94
10237	Naphthalene	91-20-3	150 J	46	38.94
10237	Toluene	108-88-3	N.D.	46	38.94
10237	Xylene (Total)	1330-20-7	N.D.	46	38.94

Reporting limits were raised due to interference from the sample matrix.

GC Miscellaneous		SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	340	4.6	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	14.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 BTEX+Naphthalene Soil	SW-846 8260B	1	Q151871AA	07/06/2015 12:52	Anita M Dale	38.94
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201517738116	06/23/2015 09:17	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201517738116	06/23/2015 09:17	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201517738116	06/23/2015 09:17	Client Supplied	1
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	151820028A	07/07/2015 15:55	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	151820028A	07/02/2015 09:00	Katheryne V Dinan	1
00111	Moisture	SM 2540 G-1997	1	15183820006A	07/02/2015 18:20	Scott W Freisher	1

Sample Description: RW-117S 29-30' Grab Soil
NRG - PRGS

LL Sample # SW 7946614
LL Group # 1572696
Account # 08390

Project Name: NRG PRGS

Collected: 06/23/2015 13:12 by SA

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/10/2015 19:18

1350 Blair Dr

Odenton MD 21113

NG117

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	64 J	34	56.82
10237	Ethylbenzene	100-41-4	81 J	67	56.82
10237	Naphthalene	91-20-3	660	67	56.82
10237	Toluene	108-88-3	N.D.	67	56.82
10237	Xylene (Total)	1330-20-7	N.D.	67	56.82
Reporting limits were raised due to interference from the sample matrix.					
GC Miscellaneous		SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	220	4.7	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	15.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 BTEX+Naphthalene Soil	SW-846 8260B	1	Q151871AA	07/06/2015 13:16	Anita M Dale	56.82
00374	GC/MS - Bulk Soil Prep	SW-846 5030A	1	201518138144	06/30/2015 09:37	Stephanie A Sanchez	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5030A	2	201518138144	06/30/2015 09:37	Stephanie A Sanchez	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	201518138144	06/30/2015 09:34	Stephanie A Sanchez	n.a.
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201517738116	06/23/2015 13:12	Client Supplied	1
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	151820028A	07/07/2015 11:22	Christine E Dolman	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	151820028A	07/02/2015 09:00	Katheryne V Dinan	1
00111	Moisture	SM 2540 G-1997	1	15183820006A	07/02/2015 18:20	Scott W Freisher	1

Sample Description: MW-122 23-24' Grab Soil
NRG - PRGS

LL Sample # SW 7946615
LL Group # 1572696
Account # 08390

Project Name: NRG PRGS

Collected: 06/24/2015 08:49 by SA

GES, Inc.

Submitted: 06/26/2015 18:08

Suite A

Reported: 07/10/2015 19:18

1350 Blair Dr

Odenton MD 21113

NG122

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	21	38.58
10237	Ethylbenzene	100-41-4	160 J	42	38.58
10237	Naphthalene	91-20-3	2,500	42	38.58
10237	Toluene	108-88-3	N.D.	42	38.58
10237	Xylene (Total)	1330-20-7	490	42	38.58
GC Miscellaneous					
		SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	4,300	210	50
Wet Chemistry					
		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	7.5	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.				

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	8260 BTEX+Naphthalene Soil	SW-846 8260B	1	R151871AA	07/06/2015 12:17	Anita M Dale	38.58
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201517738116	06/24/2015 08:49	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201517738116	06/24/2015 08:49	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201517738116	06/24/2015 08:49	Client Supplied	1
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	151820028A	07/08/2015 09:15	Christine E Dolman	50
10942	Microwave Extraction-DRO soils	SW-846 3546	1	151820028A	07/02/2015 09:00	Katheryne V Dinan	1
00111	Moisture	SM 2540 G-1997	1	15183820006A	07/02/2015 18:20	Scott W Freisher	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 07/10/2015 19:18

Group Number: 1572696

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Q151871AA	Sample number(s): 7946613-7946614							
Benzene	N.D.	25.	ug/kg	98	98	80-120	0	30
Ethylbenzene	N.D.	50.	ug/kg	92	91	80-120	1	30
Naphthalene	N.D.	50.	ug/kg	66	69	64-120	3	30
Toluene	N.D.	50.	ug/kg	96	94	80-120	1	30
Xylene (Total)	N.D.	50.	ug/kg	91	91	80-120	0	30
Batch number: R151871AA	Sample number(s): 7946615							
Benzene	N.D.	25.	ug/kg	104	96	80-120	8	30
Ethylbenzene	N.D.	50.	ug/kg	104	95	80-120	9	30
Naphthalene	N.D.	50.	ug/kg	85	83	64-120	3	30
Toluene	N.D.	50.	ug/kg	106	98	80-120	8	30
Xylene (Total)	N.D.	50.	ug/kg	106	95	80-120	11	30
Batch number: 151820028A	Sample number(s): 7946613-7946615							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	91		81-121		
Batch number: 15183820006A	Sample number(s): 7946613-7946615							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151820028A	Sample number(s): 7946613-7946615 UNSPK: P945764 BKG: P945764								
TPH-DRO soil C10-C28 microwave	78		35-129			N.D.	N.D.	0 (1)	20
Batch number: 15183820006A	Sample number(s): 7946613-7946615 BKG: 7946614								
Moisture						15.6	16.3	5	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 07/10/2015 19:18

Group Number: 1572696

Surrogate Quality Control

Analysis Name: 8260 BTEX+Naphthalene Soil
Batch number: Q151871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7946613	74	78	74	77
7946614	72	71	69	68
Blank	95	100	95	90
LCS	100	104	99	97
LCSD	102	104	98	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 BTEX+Naphthalene Soil
Batch number: R151871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7946615	79	78	81	91
Blank	87	91	86	78
LCS	99	98	99	99
LCSD	93	92	93	88
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 151820028A

	Orthoterphenyl
7946613	87
7946614	92
7946615	114
Blank	94
DUP	72
LCS	91
MS	70
Limits:	54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 8390 Group # 1572046 Sample # 7946013-15

Client: Groundwater & Env. Services, Inc.				Matrix		Analyses Requested																For Lab Use Only																																																															
Project Name/ID: NRG PRGS		Site ID #: NRG PRGS		<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Other:		Preservation Codes H H H None N None None S H None N H N B N																SF #:																																																															
Project Manager: Tony Christliff		P.O. # 0402925																				SCR #:																																																															
Sampler: Scott Andresini		PWSID #:																																																																																			
Phone #: 800-220-3606 x 3762		Quote #: 212032A																																																																																			
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA																																																																																					
Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Other</th> <th>Total # of Containers</th> </tr> </thead> <tbody> <tr> <td>RW-305 28.25-29'</td> <td>6/23/15 9:17</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>RW-1175 29-30'</td> <td>6/23/15 13:12</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>MW-122 23-24'</td> <td>6/24/15 8:49</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table>				Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers	RW-305 28.25-29'	6/23/15 9:17	X		X			5	RW-1175 29-30'	6/23/15 13:12	X		X			5	MW-122 23-24'	6/24/15 8:49	X		X			5	TPH-DRO C10-C28 (SW-846 80195) BTEX Naphthalene (SW-846 8260B)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>H</td><td>H</td><td>H</td><td>None</td><td>N</td><td>None</td><td>None</td><td>S</td><td>H</td><td>None</td><td>N</td><td>H</td><td>N</td><td>B</td><td>N</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																H	H	H	None	N	None	None	S	H	None	N	H	N	B	N																Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other	
				Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers																																																																										
RW-305 28.25-29'	6/23/15 9:17	X		X			5																																																																														
RW-1175 29-30'	6/23/15 13:12	X		X			5																																																																														
MW-122 23-24'	6/24/15 8:49	X		X			5																																																																														
H	H	H	None	N	None	None	S	H	None	N	H	N	B	N																																																																							
																		Remarks																																																																			
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <i>[Signature]</i>		Date: 6/25/15 Time: 900		Received by: <i>[Signature]</i>		Date: 6-25-15 Time: 1548																																																																											
Date results are needed:				Relinquished by: <i>[Signature]</i>		Date: 6-26-15 Time: 1250		Received by: <i>[Signature]</i>		Date: 6-25-15 Time: 1250																																																																											
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> E-mail Address: mdlabs@gesonline.com & ges@equisonline.com Phone:				Relinquished by: <i>[Signature]</i>		Date: 6-26-15 Time: 1808		Received by: <i>[Signature]</i>		Date: Time:																																																																											
Data Package Options (please check if required) Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/> Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/> Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by:		Date: Time:		Received by:		Date: Time:																																																																											
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: GES EQEDD EQEDD Name: NRG PRGS.Lab report #.25800.EQEDD.zip				Relinquished by Commercial Carrier:		Date: Time:		Received by: <i>[Signature]</i>		Date: 6/26/15 Time: 1808																																																																											
				UPS _____ FedEx _____ Other _____				Temperature upon receipt: 0.4°C																																																																													

Client: GES

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>06/26/2015 18:08</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>3</u>
State/Province of Origin:	<u>VA</u>		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 19:23 on 06/26/2015

Samples Chilled Details*Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT146	0.4	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

June 02, 2015

Project: NRG PRGS

Submittal Date: 05/14/2015

Group Number: 1561298

PO Number: NRG PRGS

Release Number: 0402915

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
TW-02 Grab Groundwater	7888646
TW-03 Grab Groundwater	7888647
TB1-51315 Water	7888648
TW-07 Grab Groundwater	7888649
TW-04 Grab Groundwater	7888650
TB2-51315 Water	7888651
TW-05 Grab Groundwater	7888652
TW-06 Grab Groundwater	7888653
TB3-51315 Water	7888654
MW-51 Grab Groundwater	7888655
MW-25 Grab Groundwater	7888656
MW-05 Grab Groundwater	7888657
TB8-51315 Water	7888658
MW-33 Grab Groundwater	7888659
MW-33 MS Grab Groundwater	7888660
MW-33 MSD Grab Groundwater	7888661
MW-33 Duplicate Grab Groundwater	7888662
TB7-513 Water	7888663
MW-30S Grab Groundwater	7888664
MW-31 Grab Groundwater	7888665
Field Dup Grab Groundwater	7888666
TB6-513 Water	7888667
TB5-513 Water	7888668
MW-27 Grab Groundwater	7888669
MW-51S Grab Groundwater	7888670
MW-72 Grab Groundwater	7888671
MW-72S Grab Groundwater	7888672
TB4-51315 Water	7888673
Rinsate 2 Grab Water	7888674

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

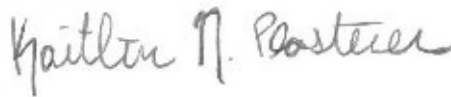
Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO
ELECTRONIC COPY TO
GES
GES, Inc.-MD

Attn: Greg Reichart

Attn: Data Distribution

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888646
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 09:55 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.20	0.010	1
08357	Acenaphthylene	208-96-8	0.085	0.010	1
08357	Anthracene	120-12-7	0.13	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.51	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.56	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.70	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.47	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.27	0.010	1
08357	Chrysene	218-01-9	0.59	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.13	0.010	1
08357	Fluoranthene	206-44-0	1.0	0.010	1
08357	Fluorene	86-73-7	0.12	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.40	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.093	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.11	0.010	1
08357	Naphthalene	91-20-3	0.30	0.030	1
08357	Phenanthrene	85-01-8	0.64	0.030	1
08357	Pyrene	129-00-0	1.0	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	N.D.	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	2.3 J	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	177	0.70	5

Sample Description: TW-02 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888646
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 09:55 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW02

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 14:07	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:07	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 00:42	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 19:24	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 19:24	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451A	05/14/2015 20:30	Luz M Groff	5

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	1	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.26	0.010	1
08357	Acenaphthylene	208-96-8	0.028 J	0.010	1
08357	Anthracene	120-12-7	0.068	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.17	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.18	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.21	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.12	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.088	0.010	1
08357	Chrysene	218-01-9	0.17	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.032 J	0.010	1
08357	Fluoranthene	206-44-0	0.25	0.010	1
08357	Fluorene	86-73-7	0.43	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.12	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.071	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.037 J	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	0.27	0.030	1
08357	Pyrene	129-00-0	0.23	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	21 J	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	2,200	30	10
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	200	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	4.32	0.00083	1

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 298	mg/l 30.0	100
00220	Nitrate Nitrogen	EPA 353.2 14797-55-8	mg/l N.D.	mg/l 0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.13	0.015	1
08079	HEM (oil & grease)	EPA 1664A n.a.	mg/l N.D.	mg/l 1.4	1
12145	Turbidity	SM 2130 B-2001 n.a.	N T U 65.6	N T U 0.28	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997 n.a.	mg/l as CaCO3 39.0	mg/l as CaCO3 0.70	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997 n.a.	mg/l 24.6	mg/l 0.25	25

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 14:29	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:29	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 01:10	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 19:46	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 19:46	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 14:57	Kristen N Brandt	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:30	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:02	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

Sample Description: TW-03 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888647
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:20 by LK

GES, Inc.

Suite A

Submitted: 05/14/2015 15:20

1350 Blair Dr

Reported: 06/02/2015 12:51

Odenton MD 21113

NTW03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015	19:32	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015	03:54	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015	03:07	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015	05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015	20:30	Luz M Groff	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015	20:35	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015	07:45	Daniel S Smith	25

Sample Description: TB1-51315 Water
NRG - PRGS

LL Sample # WW 7888648
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 09:30

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 12:20	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 12:20	Brett W Kenyon	1

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	10	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	3 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.034 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.041 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.053	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.036 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.021 J	0.010	1
08357	Chrysene	218-01-9	0.045 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.054	0.010	1
08357	Fluorene	86-73-7	0.058	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.032 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.33	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.25	0.010	1
08357	Naphthalene	91-20-3	2.8	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	0.15	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	36 J	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	800	15	5
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	320	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	5.62	0.00083	1

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 323	mg/l 30.0	100
00220	Nitrate Nitrogen	EPA 353.2 14797-55-8	mg/l N.D.	mg/l 0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.046 J	0.015	1
08079	HEM (oil & grease)	EPA 1664A n.a.	mg/l N.D.	mg/l 1.4	1
12145	Turbidity	SM 2130 B-2001 n.a.	N T U 56.8	N T U 0.28	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997 n.a.	mg/l as CaCO3 1.1 J	mg/l as CaCO3 0.70	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997 n.a.	mg/l 9.5	mg/l 1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 14:51	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 14:51	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 01:38	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 20:08	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 20:08	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 15:15	Kristen N Brandt	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 12:53	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:06	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

Sample Description: TW-07 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888649
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:45 by LK

GES, Inc.

Suite A

Submitted: 05/14/2015 15:20

1350 Blair Dr

Reported: 06/02/2015 12:51

Odenton MD 21113

NTW07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015	19:49	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015	03:55	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015	03:08	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015	05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015	20:30	Luz M Groff	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002104A	05/19/2015	00:59	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015	07:45	Daniel S Smith	100

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888650
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:05 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	1 J	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.74	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	0.10	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.049 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.042 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.070	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.034 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.029 J	0.010	1
08357	Chrysene	218-01-9	0.069	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.28	0.010	1
08357	Fluorene	86-73-7	0.37	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.033 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	2.7	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.076	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	0.21	0.030	1
08357	Pyrene	129-00-0	0.21	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	33 J	20	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	700	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	3.5 J	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	436	2.8	20

Sample Description: TW-04 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888650
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:05 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW04

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 15:13	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:13	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 02:06	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 20:52	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 20:52	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 13:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	20

Sample Description: TB2-51315 Water
NRG - PRGS

LL Sample # WW 7888651
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 10:30

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 12:42	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 12:42	Brett W Kenyon	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	3	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	1 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.41	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	0.071	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.046 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.031 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.048 J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.028 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.015 J	0.010	1
08357	Chrysene	218-01-9	0.071	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.099	0.010	1
08357	Fluorene	86-73-7	0.42	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.022 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.81	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.19	0.010	1
08357	Naphthalene	91-20-3	0.92	0.030	1
08357	Phenanthrene	85-01-8	0.084	0.030	1
08357	Pyrene	129-00-0	0.36	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	44 J	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	1,300	30	10
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	1,100	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	4.77	0.00083	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 463	mg/l 30.0	100
00220	Nitrate Nitrogen	EPA 353.2 14797-55-8	mg/l 0.052 J	mg/l 0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.18	0.015	1
08079	HEM (oil & grease)	EPA 1664A n.a.	mg/l N.D.	mg/l 1.4	1
12145	Turbidity	SM 2130 B-2001 n.a.	N T U 31.7	N T U 0.14	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997 n.a.	mg/l as CaCO3 66.2	mg/l as CaCO3 0.70	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997 n.a.	mg/l 58.6	mg/l 0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 15:34	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:34	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 02:34	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 21:14	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 21:14	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 15:33	Kristen N Brandt	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410001A	05/22/2015 13:39	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410001A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:09	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1

Sample Description: TW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888652
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:20 by LK

GES, Inc.

Suite A

Submitted: 05/14/2015 15:20

1350 Blair Dr

Reported: 06/02/2015 12:51

Odenton MD 21113

NTW05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
					Date	Time		
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015	20:06	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103A	05/25/2015	03:57	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015	03:10	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015	05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015	20:30	Luz M Groff	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015	20:41	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015	07:45	Daniel S Smith	1

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888653
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	2	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	4	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM					
08357	Acenaphthene	83-32-9	1.6	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	0.18	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.015 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	0.023 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.074	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	16	0.10	10
08357	2-Methylnaphthalene	91-57-6	0.087	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	1.0	0.030	1
08357	Pyrene	129-00-0	0.24	0.010	1
GC Volatiles SW-846 8015B modified					
01635	TPH-GRO water C6-C10	n.a.	130	20	1
GC Petroleum Hydrocarbons SW-846 8015B					
12858	DRO C10-C28	n.a.	2,300	45	1
Wet Chemistry EPA 1664A					
08079	HEM (oil & grease)	n.a.	2.8 J	1.4	1
SM 2130 B-2001					
12145	Turbidity	n.a.	138	0.70	5

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: TW-06 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888653
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTW06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 15:56	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 15:56	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 03:03	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 11:44	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 21:36	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 21:36	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 12:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	5

Sample Description: TB3-51315 Water
NRG - PRGS

LL Sample # WW 7888654
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 11:30

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151411AA	05/21/2015 13:03	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151411AA	05/21/2015 13:03	Brett W Kenyon	1

Sample Description: MW-51 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888655
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:45 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals					
	SW-846 6010B		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07049	Cadmium	7440-43-9	0.00067 J	0.00033	1
07051	Chromium	7440-47-3	0.0071 J	0.0013	1
07053	Copper	7440-50-8	0.0090 J	0.0028	1
07055	Lead	7439-92-1	0.0179	0.0047	1
07060	Molybdenum	7439-98-7	0.0033 J	0.0017	1
07061	Nickel	7440-02-0	0.0352	0.0016	1
07066	Silver	7440-22-4	0.0031 J	0.0018	1
	SW-846 7470A		mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry					
	EPA 335.4		mg/l	mg/l	
00237	Total Cyanide (water)	57-12-5	0.026	0.0050	1
	EPA 1664A		mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	842	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07060	Molybdenum	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151381848001	05/20/2015 11:15	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151355713003	05/20/2015 09:07	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151381848001	05/19/2015 09:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151355713003	05/19/2015 08:35	James L Mertz	1
00237	Total Cyanide (water)	EPA 335.4	1	15144102101A	05/25/2015 04:39	Joseph E McKenzie	1
00492	Cyanide Water Distillation	EPA 335.4	1	15144102101A	05/24/2015 15:15	Joseph E McKenzie	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1

Sample Description: MW-25 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888656
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals					
	SW-846 6010B		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07049	Cadmium	7440-43-9	0.00052 J	0.00033	1
07051	Chromium	7440-47-3	0.0119 J	0.0013	1
07053	Copper	7440-50-8	0.0130	0.0028	1
07055	Lead	7439-92-1	0.0109 J	0.0047	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	1
07061	Nickel	7440-02-0	0.0314	0.0016	1
07066	Silver	7440-22-4	N.D.	0.0018	1
SW-846 7470A					
	mg/l		mg/l		
00259	Mercury	7439-97-6	0.00016 J	0.000050	1
Wet Chemistry					
	EPA 335.4		mg/l	mg/l	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
EPA 1664A					
	mg/l		mg/l		
08079	HEM (oil & grease)	n.a.	949	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07060	Molybdenum	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151381848001	05/20/2015 11:18	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151355713003	05/20/2015 09:13	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151381848001	05/19/2015 09:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151355713003	05/19/2015 08:35	James L Mertz	1
00237	Total Cyanide (water)	EPA 335.4	1	15144102101A	05/25/2015 04:43	Joseph E McKenzie	1
00492	Cyanide Water Distillation	EPA 335.4	1	15144102101A	05/24/2015 15:15	Joseph E McKenzie	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1

Sample Description: MW-05 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888657
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:30 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals					
	SW-846 6010B		mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0074 J	0.0072	1
07049	Cadmium	7440-43-9	0.00049 J	0.00033	1
07051	Chromium	7440-47-3	0.0192	0.0013	1
07053	Copper	7440-50-8	0.0206	0.0028	1
07055	Lead	7439-92-1	0.0320	0.0047	1
07060	Molybdenum	7439-98-7	0.0041 J	0.0017	1
07061	Nickel	7440-02-0	0.0230	0.0016	1
07066	Silver	7440-22-4	N.D.	0.0018	1
	SW-846 7470A		mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry					
	EPA 335.4		mg/l	mg/l	
00237	Total Cyanide (water)	57-12-5	0.0057 J	0.0050	1
	EPA 1664A		mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	937	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07060	Molybdenum	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151381848001	05/20/2015 11:28	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151395713003	05/20/2015 06:22	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151381848001	05/19/2015 09:12	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151395713003	05/19/2015 18:30	Parker D Lindstrom	1
00237	Total Cyanide (water)	EPA 335.4	1	15144102101A	05/25/2015 04:45	Joseph E McKenzie	1
00492	Cyanide Water Distillation	EPA 335.4	1	15144102101A	05/24/2015 15:15	Joseph E McKenzie	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1

Sample Description: TB8-51315 Water
NRG - PRGS

LL Sample # WW 7888658
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:35

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC,Naph	SW-846 8260B	1	Z151421AA	05/22/2015 15:01	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z151421AA	05/22/2015 15:01	Daniel H Heller	1

Sample Description: MW-33 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888659
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	N.D.	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.025 J	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	0.031 J	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	7.3	3.0	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	N.D.	45	1
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	0.975	0.00083	1
Wet Chemistry EPA 300.0 mg/l					
00228	Sulfate	14808-79-8	254	15.0	50
EPA 353.2 mg/l					

Sample Description: MW-33 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888659
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
00220	Nitrate Nitrogen	14797-55-8	2.0	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
EPA 353.2					
			mg/l	mg/l	
EPA 1664A					
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1
SM 2130 B-2001					
12145	Turbidity	n.a.	N T U 207	N T U 1.4	10
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	mg/l as CaCO ₃ 81.7	mg/l as CaCO ₃ 0.70	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	mg/l 0.075	mg/l 0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 13:14	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 13:14	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/22/2015 23:17	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 16:50	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 16:50	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 06:39	Kristen N Brandt	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/22/2015 23:38	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 20:47	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 18:42	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	2	15151106109B	05/31/2015 15:50	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:11	James S Mathiot	1

Sample Description: MW-33 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888659
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by NG

GES, Inc.

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Submitted: 05/14/2015 15:20

1350 Blair Dr

Reported: 06/02/2015 12:51

Odenton MD 21113

NMW33

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 18:34	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: MW-33 MS Grab Groundwater
NRG - PRGS

LL Sample # WW 7888660
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:10 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	21	0.5	1
10945	t-Butyl alcohol	75-65-0	220	2	1
10945	1,2-Dibromoethane	106-93-4	21	0.5	1
10945	1,2-Dichloroethane	107-06-2	20	0.5	1
10945	Ethylbenzene	100-41-4	21	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	1
10945	Naphthalene	91-20-3	19	1	1
10945	Toluene	108-88-3	21	0.5	1
10945	Xylene (Total)	1330-20-7	62	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	1.2	0.011	1
08357	Acenaphthylene	208-96-8	1.1	0.011	1
08357	Anthracene	120-12-7	0.81	0.011	1
08357	Benzo(a)anthracene	56-55-3	0.92	0.011	1
08357	Benzo(a)pyrene	50-32-8	0.39	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	0.73	0.011	1
08357	Benzo(g,h,i)perylene	191-24-2	0.36	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	0.67	0.011	1
08357	Chrysene	218-01-9	0.74	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	0.35	0.011	1
08357	Fluoranthene	206-44-0	0.91	0.011	1
08357	Fluorene	86-73-7	0.96	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.40	0.011	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.011	1
08357	2-Methylnaphthalene	91-57-6	1.1	0.011	1
08357	Naphthalene	91-20-3	1.1	0.033	1
08357	Phenanthrene	85-01-8	0.96	0.033	1
08357	Pyrene	129-00-0	0.87	0.011	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	1,100	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	69	3.0	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	1,700	45	1
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	1.60	0.00083	1
Wet Chemistry EPA 300.0 mg/l					
00228	Sulfate	14808-79-8	788	30.0	100
EPA 353.2 mg/l					

Sample Description: MW-33 MS Grab Groundwater
NRG - PRGS

LL Sample # WW 7888660
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:10 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

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Reported: 06/02/2015 12:51

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Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
		EPA 353.2	mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	2.8	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.20	0.015	1
EPA 1664A					
			mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	50.9	1.4	1
SM 2320 B-1997					
			mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	262	0.70	1
SM 3500-Fe B modified-1997					
			mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.20	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 13:36	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 13:36	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/22/2015 23:45	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 17:12	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 17:12	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 06:57	Kristen N Brandt	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/23/2015 00:01	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 20:57	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 19:16	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	3	15151106109B	05/31/2015 15:52	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:12	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 18:41	Michele L Graham	1

Sample Description: MW-33 MS Grab Groundwater
NRG - PRGS

LL Sample # WW 7888660
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:10 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: MW-33 MSD Grab Groundwater
NRG - PRGS

LL Sample # WW 7888661
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:20 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	21	0.5	1
10945	t-Butyl alcohol	75-65-0	230	2	1
10945	1,2-Dibromoethane	106-93-4	21	0.5	1
10945	1,2-Dichloroethane	107-06-2	20	0.5	1
10945	Ethylbenzene	100-41-4	21	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	1
10945	Naphthalene	91-20-3	21	1	1
10945	Toluene	108-88-3	21	0.5	1
10945	Xylene (Total)	1330-20-7	62	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	
08357	Acenaphthene	83-32-9	1.1	0.010	1
08357	Acenaphthylene	208-96-8	1.0	0.010	1
08357	Anthracene	120-12-7	0.67	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.88	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.31	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.74	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.36	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.69	0.010	1
08357	Chrysene	218-01-9	0.76	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.40	0.010	1
08357	Fluoranthene	206-44-0	0.81	0.010	1
08357	Fluorene	86-73-7	1.0	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.44	0.010	1
08357	1-Methylnaphthalene	90-12-0	1.1	0.010	1
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	1
08357	Naphthalene	91-20-3	1.1	0.031	1
08357	Phenanthrene	85-01-8	0.86	0.031	1
08357	Pyrene	129-00-0	0.78	0.010	1
GC	Volatiles	SW-846 8015B modified	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	1,100	20	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	
07105	Methane	74-82-8	74	3.0	1
GC	Petroleum Hydrocarbons	SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	1,800	45	1
Metals	SW-846 6010B	mg/l	mg/l		
07058	Manganese	7439-96-5	1.69	0.00083	1
Wet Chemistry	SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3		
12150	Total Alkalinity to pH 4.5	n.a.	260	0.70	1

Sample Description: MW-33 MSD Grab Groundwater
NRG - PRGS

LL Sample # WW 7888661
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:20 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
	Wet Chemistry	SM 3500-Fe B modified-1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.19	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 13:58	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 13:58	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 00:14	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 17:34	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 17:34	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 07:15	Kristen N Brandt	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/23/2015 00:24	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:00	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 18:48	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: MW-33 Duplicate Grab Groundwater
NRG - PRGS

LL Sample # WW 7888662
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:00 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW33

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals					
07058	Manganese	SW-846 6010B 7439-96-5	mg/l 0.981	mg/l 0.00083	1
Wet Chemistry					
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 282	mg/l 15.0	50
00220	Nitrate Nitrogen	EPA 353.2 14797-55-8	mg/l 2.0	mg/l 0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
12145	Turbidity	SM 2130 B-2001 n.a.	N T U 164	N T U 0.70	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997 n.a.	mg/l as CaCO3 81.7	mg/l as CaCO3 0.70	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997 n.a.	mg/l 0.095	mg/l 0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 20:54	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 18:59	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	3	15151106109B	05/31/2015 15:51	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:13	James S Mathiot	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 18:55	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: TB7-513 Water
NRG - PRGS

LL Sample # WW 7888663
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2015

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 11:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 11:25	Brett W Kenyon	1

Sample Description: MW-30S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888664
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:10 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW30

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.012	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	1
08357	Anthracene	120-12-7	0.056 J	0.012	1
08357	Benzo(a)anthracene	56-55-3	0.30	0.012	1
08357	Benzo(a)pyrene	50-32-8	1.7	0.012	1
08357	Benzo(b)fluoranthene	205-99-2	1.4	0.012	1
08357	Benzo(g,h,i)perylene	191-24-2	1.3	0.012	1
08357	Benzo(k)fluoranthene	207-08-9	0.37	0.012	1
08357	Chrysene	218-01-9	0.61	0.012	1
08357	Dibenz(a,h)anthracene	53-70-3	0.28	0.012	1
08357	Fluoranthene	206-44-0	0.44	0.012	1
08357	Fluorene	86-73-7	N.D.	0.012	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	0.012	1
08357	1-Methylnaphthalene	90-12-0	0.087	0.012	1
08357	2-Methylnaphthalene	91-57-6	0.15	0.012	1
08357	Naphthalene	91-20-3	N.D.	0.035	1
08357	Phenanthrene	85-01-8	0.15	0.035	1
08357	Pyrene	129-00-0	0.88	0.012	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	3,200	45	1
Wet Chemistry SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	2,150	14.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-30S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888664
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:10 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW30

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 14:20	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 14:20	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 03:31	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 21:58	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 21:58	Brett W Kenyon	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 13:03	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	100

Sample Description: MW-31 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888665
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:30 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	3 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	
08357	Acenaphthene	83-32-9	7.3	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	7.3	0.010	1
08357	Benzo(a)anthracene	56-55-3	4.8	0.010	1
08357	Benzo(a)pyrene	50-32-8	3.2	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	4.0	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	1.2	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	1.5	0.010	1
08357	Chrysene	218-01-9	3.9	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.38	0.010	1
08357	Fluoranthene	206-44-0	13	0.10	10
08357	Fluorene	86-73-7	9.0	0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	0.010	1
08357	1-Methylnaphthalene	90-12-0	14	0.10	10
08357	2-Methylnaphthalene	91-57-6	1.0	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
08357	Phenanthrene	85-01-8	13	0.31	10
08357	Pyrene	129-00-0	17	0.10	10

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials with the exception of:
naphthalene 4.2 ug/l
acenaphthylene 1.2 ug/l
were detected in the re-extraction.

GC Volatiles	SW-846 8015B modified	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	120	20
GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	
07105	Methane	74-82-8	5,700	60
GC Petroleum Hydrocarbons	SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	14,000	45

Sample Description: MW-31 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888665
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:30 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Metals	SW-846 6010B		mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0177 J	0.0072	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
07051	Chromium	7440-47-3	0.0202	0.0013	1
07053	Copper	7440-50-8	0.339	0.0028	1
07055	Lead	7439-92-1	0.0282	0.0047	1
07058	Manganese	7439-96-5	10.8	0.0017	2
07060	Molybdenum	7439-98-7	0.0037 J	0.0017	1
07061	Nickel	7440-02-0	0.0581	0.0016	1
07066	Silver	7440-22-4	N.D.	0.0018	1
	SW-846 7470A		mg/l	mg/l	
00259	Mercury	7439-97-6	0.000059 J	0.000050	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	
00228	Sulfate	14808-79-8	70.1	3.0	10
	EPA 335.4		mg/l	mg/l	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	EPA 1664A		mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	20.8	1.4	1
	SM 2130 B-2001		N T U	N T U	
12145	Turbidity	n.a.	438	2.8	20
	SM 2320 B-1997		mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	510	0.70	1
	SM 3500-Fe B modified-1997		mg/l	mg/l	
08344	Ferrous Iron	n.a.	15.4	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-31 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888665
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 13:30 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW31

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 14:41	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 14:41	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 03:59	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 12:12	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140A20A	05/20/2015 22:20	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140A20A	05/20/2015 22:20	Brett W Kenyon	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 15:52	Kristen N Brandt	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 13:26	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07035	Arsenic	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	151351848002	05/20/2015 17:55	Suzanne M Will	2
07060	Molybdenum	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010B	1	151351848002	05/19/2015 22:13	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	151395713001	05/21/2015 07:10	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151395713001	05/20/2015 10:55	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 20:22	Drew M Gerhart	10
00237	Total Cyanide (water)	EPA 335.4	1	15144102101A	05/25/2015 04:46	Joseph E McKenzie	1
00220	Nitrate Nitrogen	EPA 353.2	1	15145106104A	05/25/2015 04:46	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:15	James S Mathiot	1
00492	Cyanide Water Distillation	EPA 335.4	1	15144102101A	05/24/2015 15:15	Joseph E McKenzie	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121451B	05/14/2015 20:30	Luz M Groff	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	2	15140006102A	05/20/2015 17:28	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	100

Sample Description: Field Dup Grab Groundwater
NRG - PRGS

LL Sample # WW 7888666
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

N--FD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	3 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	
08357	Acenaphthene	83-32-9	3.2	0.011	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	1
08357	Anthracene	120-12-7	6.0	0.011	1
08357	Benzo(a)anthracene	56-55-3	3.7	0.011	1
08357	Benzo(a)pyrene	50-32-8	2.3	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	3.0	0.011	1
08357	Benzo(g,h,i)perylene	191-24-2	0.86	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	0.99	0.011	1
08357	Chrysene	218-01-9	2.9	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	0.28	0.011	1
08357	Fluoranthene	206-44-0	11	0.11	10
08357	Fluorene	86-73-7	9.3	0.11	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.85	0.011	1
08357	1-Methylnaphthalene	90-12-0	16	0.11	10
08357	2-Methylnaphthalene	91-57-6	1.3	0.011	1
08357	Naphthalene	91-20-3	N.D.	0.032	1
08357	Phenanthrene	85-01-8	13	0.32	10
08357	Pyrene	129-00-0	12	0.11	10

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials with the exception of:
naphthalene 4.8 ug/l
acenaphthylene 1.2 ug/l
were detected in the re-extraction.

GC Volatiles	SW-846 8015B modified	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	290	20
GC Petroleum	SW-846 8015B	ug/l	ug/l	
Hydrocarbons				
12858	DRO C10-C28	n.a.	20,000	45
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.				

Sample Description: Field Dup Grab Groundwater
NRG - PRGS

LL Sample # WW 7888666
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

N--FD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry EPA 1664A					
08079	HEM (oil & grease)	n.a.	15.3	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC,Naph	SW-846 8260B	1	F151412AA	05/21/2015 15:03	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 15:03	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 04:27	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 12:40	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140B94A	05/21/2015 12:48	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140B94A	05/21/2015 12:48	Jeremy C Giffin	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 13:49	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1

Sample Description: TB6-513 Water
NRG - PRGS

LL Sample # WW 7888667
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2015

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC,Naph	SW-846 8260B	1	F151412AA	05/21/2015 11:47	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 11:47	Brett W Kenyon	1

Sample Description: TB5-513 Water
NRG - PRGS

LL Sample # WW 7888668
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2015

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 12:09	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 12:09	Brett W Kenyon	1

Sample Description: MW-27 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888669
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:00 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	2 J	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	30	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	1	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	3.0	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	5.7	0.010	1
08357	Benzo(a)anthracene	56-55-3	4.3	0.010	1
08357	Benzo(a)pyrene	50-32-8	2.9	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	3.9	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	1.1	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	1.4	0.010	1
08357	Chrysene	218-01-9	3.8	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	0.37	0.010	1
08357	Fluoranthene	206-44-0	8.2	0.010	1
08357	Fluorene	86-73-7	9.2	0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	0.010	1
08357	1-Methylnaphthalene	90-12-0	51	0.10	10
08357	2-Methylnaphthalene	91-57-6	14	0.10	10
08357	Naphthalene	91-20-3	21	0.30	10
08357	Phenanthrene	85-01-8	18	0.30	10
08357	Pyrene	129-00-0	11	0.10	10
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	290	20	1
GC Petroleum SW-846 8015B ug/l					
12858	DRO C10-C28	n.a.	19,000	45	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	9.8	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	120	0.70	5

Sample Description: MW-27 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888669
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:00 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW27

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 15:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 15:25	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 04:55	Catherine E Bachman	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 13:08	Catherine E Bachman	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140B94A	05/21/2015 13:14	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140B94A	05/21/2015 13:14	Jeremy C Giffin	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 14:12	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121452A	05/14/2015 21:30	Luz M Groff	5

Sample Description: MW-51S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888670
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:20 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

51NMW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	RSKSOP-175 modified		ug/l	ug/l	
07105	Methane	74-82-8	11,000	150	50
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	17,000	45	1
Metals	SW-846 6010B		mg/l	mg/l	
07058	Manganese	7439-96-5	1.74	0.00083	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	
00228	Sulfate	14808-79-8	N.D.	1.5	5
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.20	0.015	1
	SM 2320 B-1997		mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	676	0.70	1
	SM 3500-Fe B modified-1997		mg/l	mg/l	
08344	Ferrous Iron	n.a.	77.3	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151380026A	05/20/2015 20:10	Kristen N Brandt	50
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 14:35	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:16	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 20:39	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15145106108A	05/25/2015 10:30	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:18	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 19:58	Michele L Graham	1

Sample Description: MW-51S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888670
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:20 by NG

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

51NMW

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	100

Sample Description: MW-72 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888671
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW72

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	13	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	13	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	6	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.010	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.011 J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.010	1
08357	Chrysene	218-01-9	0.012 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.022 J	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.010	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.010	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
08357	Phenanthrene	85-01-8	N.D.	0.031	1
08357	Pyrene	129-00-0	0.029 J	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	120	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	540	15	5
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	630	45	1
Metals SW-846 6010B mg/l					
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07049	Cadmium	7440-43-9	0.0023 J	0.00033	1
07051	Chromium	7440-47-3	0.0073 J	0.0013	1
07053	Copper	7440-50-8	0.0063 J	0.0028	1
07055	Lead	7439-92-1	0.0098 J	0.0047	1
07058	Manganese	7439-96-5	17.5	0.0017	2
07060	Molybdenum	7439-98-7	N.D.	0.0017	1

Sample Description: MW-72 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888671
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW72

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals					
		SW-846 6010B	mg/l	mg/l	
07061	Nickel	7440-02-0	0.113	0.0016	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000084 J	0.000050	1
Wet Chemistry					
		EPA 300.0	mg/l	mg/l	
00228	Sulfate	14808-79-8	434	15.0	50
		EPA 335.4	mg/l	mg/l	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
		EPA 353.2	mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.057	0.015	1
		EPA 1664A	mg/l	mg/l	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1
		SM 2130 B-2001	N T U	N T U	
12145	Turbidity	n.a.	274	1.4	10
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	101	0.70	1
		SM 3500-Fe B modified-1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	10.8	0.50	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 15:46	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 15:46	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 05:23	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1

Sample Description: MW-72 Grab Groundwater
NRG - PRGS

LL Sample # WW 7888671
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:00 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NMW72

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140B94A	05/21/2015 13:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140B94A	05/21/2015 13:40	Jeremy C Giffin	1
07105	Methane	RSKSOP-175 modified	1	151380026A	05/20/2015 15:56	Kristen N Brandt	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 15:44	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07035	Arsenic	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	151351848002	05/20/2015 12:04	Eric L Eby	2
07060	Molybdenum	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010B	1	151351848002	05/19/2015 22:20	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	151395713001	05/21/2015 07:12	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151395713001	05/20/2015 10:55	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 21:29	Drew M Gerhart	50
00237	Total Cyanide (water)	EPA 335.4	1	15144102101A	05/25/2015 04:47	Joseph E McKenzie	1
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103B	05/25/2015 03:58	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:20	James S Mathiot	1
00492	Cyanide Water Distillation	EPA 335.4	1	15144102101A	05/24/2015 15:15	Joseph E McKenzie	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15134121452A	05/14/2015 21:30	Luz M Groff	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002104B	05/19/2015 00:02	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	50

Sample Description: MW-72S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888672
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:30 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NM72S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	13	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	24	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	16	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous RSKSOP-175 modified					
07105	Methane	74-82-8	4,100	60	20
GC Petroleum SW-846 8015B					
12858	DRO C10-C28	n.a.	4,000	45	1
Metals SW-846 6010B					
07058	Manganese	7439-96-5	8.46	0.00083	1
Wet Chemistry EPA 300.0					
00228	Sulfate	14808-79-8	130	3.0	10
EPA 353.2					
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.097	0.015	1
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	597	0.70	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	24.6	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 16:08	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 16:08	Brett W Kenyon	1

Sample Description: MW-72S Grab Groundwater
NRG - PRGS

LL Sample # WW 7888672
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:30 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NM72S

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 17:10	Kristen N Brandt	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/26/2015 16:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 22:23	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15141667901B	05/21/2015 21:46	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15145106103B	05/25/2015 04:02	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	15135105101A	05/15/2015 03:21	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15138002103A	05/18/2015 20:21	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	100

Sample Description: TB4-51315 Water
NRG - PRGS

LL Sample # WW 7888673
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 12:50

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NTB04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,MTBE,TBA,EDB,EDC,Naph	SW-846 8260B	1	F151412AA	05/21/2015 12:31	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 12:31	Brett W Kenyon	1

Sample Description: Rinsate 2 Grab Water
NRG - PRGS

LL Sample # WW 7888674
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:45 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NRB02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.011	1
08357	Acenaphthylene	208-96-8	N.D.	0.011	1
08357	Anthracene	120-12-7	N.D.	0.011	1
08357	Benzo(a)anthracene	56-55-3	N.D.	0.011	1
08357	Benzo(a)pyrene	50-32-8	N.D.	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	N.D.	0.011	1
08357	Benzo(g,h,i)perylene	191-24-2	N.D.	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	N.D.	0.011	1
08357	Chrysene	218-01-9	N.D.	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.011	1
08357	Fluoranthene	206-44-0	N.D.	0.011	1
08357	Fluorene	86-73-7	N.D.	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.011	1
08357	1-Methylnaphthalene	90-12-0	N.D.	0.011	1
08357	2-Methylnaphthalene	91-57-6	N.D.	0.011	1
08357	Naphthalene	91-20-3	N.D.	0.034	1
08357	Phenanthrene	85-01-8	N.D.	0.034	1
08357	Pyrene	129-00-0	N.D.	0.011	1
GC	Volatiles	SW-846 8015B modified	ug/l	ug/l	
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC	Petroleum Hydrocarbons	SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry	EPA 1664A	mg/l	mg/l		
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: Rinsate 2 Grab Water
NRG - PRGS

LL Sample # WW 7888674
LL Group # 1561298
Account # 08390

Project Name: NRG PRGS

Collected: 05/13/2015 14:45 by LK

GES, Inc.

Submitted: 05/14/2015 15:20

Suite A

Reported: 06/02/2015 12:51

1350 Blair Dr

Odenton MD 21113

NRB02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151412AA	05/21/2015 12:52	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151412AA	05/21/2015 12:52	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15138WAN026	05/23/2015 05:51	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15138WAN026	05/19/2015 09:30	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15140B94A	05/21/2015 11:57	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15140B94A	05/21/2015 11:57	Jeremy C Giffin	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151410002A	05/23/2015 04:14	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151410002A	05/21/2015 13:30	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1

Quality Control SummaryClient Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F151411AA	Sample number(s): 7888646-7888654							
Benzene	N.D.	0.5	ug/l	87	90	78-120	4	30
t-Butyl alcohol	N.D.	2.	ug/l	101	102	78-121	1	30
1,2-Dibromoethane	N.D.	0.5	ug/l	93	98	80-120	5	30
1,2-Dichloroethane	N.D.	0.5	ug/l	87	89	72-127	2	30
Ethylbenzene	N.D.	0.5	ug/l	89	92	80-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	84	92	75-120	8	30
Naphthalene	N.D.	1.	ug/l	87	91	59-120	4	30
Toluene	N.D.	0.5	ug/l	88	92	80-120	4	30
Xylene (Total)	N.D.	0.5	ug/l	89	92	80-120	3	30
Batch number: F151412AA	Sample number(s): 7888659-7888661,7888663-7888669,7888671-7888674							
Benzene	N.D.	0.5	ug/l	90		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	102		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	90		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	91		72-127		
Ethylbenzene	N.D.	0.5	ug/l	88		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86		75-120		
Naphthalene	N.D.	1.	ug/l	90		59-120		
Toluene	N.D.	0.5	ug/l	89		80-120		
Xylene (Total)	N.D.	0.5	ug/l	88		80-120		
Batch number: Z151421AA	Sample number(s): 7888658							
Benzene	N.D.	0.5	ug/l	89		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	102		78-121		
1,2-Dibromoethane	N.D.	0.5	ug/l	95		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	91		72-127		
Ethylbenzene	N.D.	0.5	ug/l	93		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		75-120		
Naphthalene	N.D.	1.	ug/l	83		59-120		
Toluene	N.D.	0.5	ug/l	95		80-120		
Xylene (Total)	N.D.	0.5	ug/l	96		80-120		
Batch number: 15138WAN026	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888659-7888661,7888664-7888666,7888669,7888671,7888674							
Acenaphthene	N.D.	0.010	ug/l	108		76-139		
Acenaphthylene	N.D.	0.010	ug/l	96		67-120		
Anthracene	N.D.	0.010	ug/l	93		72-128		
Benzo(a)anthracene	N.D.	0.010	ug/l	94		71-127		
Benzo(a)pyrene	N.D.	0.010	ug/l	89		64-132		
Benzo(b)fluoranthene	N.D.	0.010	ug/l	96		71-139		
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	87		49-140		
Benzo(k)fluoranthene	N.D.	0.010	ug/l	89		63-136		
Chrysene	N.D.	0.010	ug/l	85		72-132		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1561298

Reported: 06/02/2015 12:51

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	74		37-142		
Fluoranthene	N.D.	0.010	ug/l	88		76-121		
Fluorene	N.D.	0.010	ug/l	100		71-124		
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	84		45-136		
1-Methylnaphthalene	N.D.	0.010	ug/l	100		65-122		
2-Methylnaphthalene	N.D.	0.010	ug/l	96		59-124		
Naphthalene	N.D.	0.030	ug/l	96		69-119		
Phenanthrene	N.D.	0.030	ug/l	80		75-121		
Pyrene	N.D.	0.010	ug/l	79		70-124		
Batch number: 15140A20A	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888659-7888661,7888664-7888665							
TPH-GRO water C6-C10	N.D.	20.	ug/l	95		80-129		
Batch number: 15140B94A	Sample number(s): 7888666,7888669,7888671,7888674							
TPH-GRO water C6-C10	N.D.	20.	ug/l	89	89	80-129	0	30
Batch number: 151380026A	Sample number(s): 7888647,7888649,7888652,7888659-7888661,7888665,7888670-7888672							
Methane	N.D.	3.0	ug/l	106		85-115		
Batch number: 151410001A	Sample number(s): 7888646-7888647,7888649-7888650,7888652							
DRO C10-C28	N.D.	45.	ug/l	51*		69-115		
Batch number: 151410002A	Sample number(s): 7888653,7888659-7888661,7888664-7888666,7888669-7888672,7888674							
DRO C10-C28	N.D.	45.	ug/l	81		69-115		
Batch number: 151351848002	Sample number(s): 7888647,7888649,7888652,7888659-7888662,7888665,7888670-7888672							
Arsenic	N.D.	0.0072	mg/l	105		80-120		
Cadmium	N.D.	0.00033	mg/l	105		80-120		
Chromium	N.D.	0.0013	mg/l	100		80-120		
Copper	N.D.	0.0028	mg/l	103		80-120		
Lead	N.D.	0.0047	mg/l	108		80-120		
Manganese	N.D.	0.00083	mg/l	102		80-120		
Molybdenum	N.D.	0.0017	mg/l	103		80-120		
Nickel	N.D.	0.0016	mg/l	106		80-120		
Silver	N.D.	0.0018	mg/l	90		80-120		
Batch number: 151355713003	Sample number(s): 7888655-7888656							
Mercury	N.D.	0.00005	mg/l	109		80-120		
		0						
Batch number: 151381848001	Sample number(s): 7888655-7888657							
Arsenic	N.D.	0.0072	mg/l	102		80-120		
Cadmium	N.D.	0.00033	mg/l	100		80-120		
Chromium	N.D.	0.0013	mg/l	99		80-120		
Copper	N.D.	0.0028	mg/l	104		80-120		
Lead	N.D.	0.0047	mg/l	107		80-120		
Molybdenum	N.D.	0.0017	mg/l	102		80-120		
Nickel	N.D.	0.0016	mg/l	104		80-120		
Silver	N.D.	0.0018	mg/l	88		80-120		
Batch number: 151395713001	Sample number(s): 7888665,7888671							
Mercury	N.D.	0.00005	mg/l	104		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 151395713003 Mercury	Sample number(s): 7888657 N.D.	0.00005 0	mg/l	99		80-120		
Batch number: 15135105101A Nitrite Nitrogen	Sample number(s): 7888647,7888649,7888652,7888659-7888660,7888662,7888665,7888670-7888672 N.D.	0.015	mg/l	103		90-110		
Batch number: 15141667901B Sulfate	Sample number(s): 7888647,7888649,7888652,7888659-7888660,7888662,7888665,7888670-7888672 N.D.	0.30	mg/l	101		90-110		
Batch number: 15144102101A Total Cyanide (water)	Sample number(s): 7888655-7888657,7888665,7888671 N.D.	0.0050	mg/l	95		90-110		
Batch number: 15145106103A Nitrate Nitrogen	Sample number(s): 7888647,7888649,7888652 N.D.	0.040	mg/l	98		90-110		
Batch number: 15145106103B Nitrate Nitrogen	Sample number(s): 7888671-7888672 N.D.	0.040	mg/l	98		90-110		
Batch number: 15145106104A Nitrate Nitrogen	Sample number(s): 7888665 N.D.	0.040	mg/l	96		90-110		
Batch number: 15145106108A Nitrate Nitrogen	Sample number(s): 7888670 N.D.	0.040	mg/l	102		90-110		
Batch number: 15151106109B Nitrate Nitrogen	Sample number(s): 7888659-7888660,7888662 N.D.	0.040	mg/l	102		90-110		
Batch number: 15134121451A Turbidity	Sample number(s): 7888646 0.17 J	0.14	N T U	96		90-110		
Batch number: 15134121451B Turbidity	Sample number(s): 7888647,7888649-7888650,7888652-7888653,7888659,7888662,7888664-7888665 0.17 J	0.14	N T U	96		90-110		
Batch number: 15134121452A Turbidity	Sample number(s): 7888669,7888671 0.15 J	0.14	N T U	96		90-110		
Batch number: 15136834401A Ferrous Iron	Sample number(s): 7888647,7888649,7888652,7888659-7888662,7888665,7888670-7888672 N.D.	0.010	mg/l	98		93-105		
Batch number: 15138002103A Total Alkalinity to pH 4.5	Sample number(s): 7888647,7888652,7888659-7888662,7888670,7888672 N.D.	0.70	mg/l as CaCO3	96		90-110		
Batch number: 15138002104A Total Alkalinity to pH 4.5	Sample number(s): 7888649 N.D.	0.70	mg/l as CaCO3	96		90-110		
Batch number: 15138002104B Total Alkalinity to pH 4.5	Sample number(s): 7888671 N.D.	0.70	mg/l as	96		90-110		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1561298

Reported: 06/02/2015 12:51

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15140006102A	Sample number(s): 7888665							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO ₃	97		90-110		
Batch number: 15144807901A	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888655-7888657,7888659-7888660,7888665-7888666,7888669,7888671,7888674							
HEM (oil & grease)	1.4	J	1.4	mg/l	95	94	78-114	0 11

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F151412AA	Sample number(s): 7888659-7888661,7888663-7888669,7888671-7888674 UNSPK: 7888659								
Benzene	105	107	72-134	2	30				
t-Butyl alcohol	112	114	67-119	2	30				
1,2-Dibromoethane	106	106	77-116	0	30				
1,2-Dichloroethane	99	102	63-142	2	30				
Ethylbenzene	103	104	71-134	1	30				
Methyl Tertiary Butyl Ether	95	95	72-126	0	30				
Naphthalene	97	103	52-125	6	30				
Toluene	107	105	80-125	1	30				
Xylene (Total)	103	104	79-125	0	30				
Batch number: Z151421AA	Sample number(s): 7888658 UNSPK: P888168								
Benzene	89	88	72-134	1	30				
t-Butyl alcohol	99	98	67-119	1	30				
1,2-Dibromoethane	93	92	77-116	1	30				
1,2-Dichloroethane	90	90	63-142	1	30				
Ethylbenzene	95	94	71-134	1	30				
Methyl Tertiary Butyl Ether	93	93	72-126	0	30				
Naphthalene	84	85	52-125	2	30				
Toluene	96	95	80-125	1	30				
Xylene (Total)	98	96	79-125	2	30				
Batch number: 15138WAN026	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888659-7888661,7888664-7888666,7888669,7888671,7888674 UNSPK: 7888659								
Acenaphthene	109	107	69-134	8	30				
Acenaphthylene	97	95	66-132	8	30				
Anthracene	73	64	64-129	18	30				
Benzo(a)anthracene	83	84	32-151	5	30				
Benzo(a)pyrene	35	30*	32-137	21	30				
Benzo(b)fluoranthene	66	70	41-137	1	30				
Benzo(g,h,i)perylene	32	34	21-127	0	30				
Benzo(k)fluoranthene	60	66	36-139	3	30				
Chrysene	67	72	51-129	2	30				
Dibenz(a,h)anthracene	31	38	17-134	14	30				
Fluoranthene	80	75	49-138	11	30				
Fluorene	87	98	59-137	7	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	36	42	26-130	9	30				
1-Methylnaphthalene	101	101	47-136	5	30				
2-Methylnaphthalene	98	97	66-120	6	30				
Naphthalene	103	102	58-131	7	30				
Phenanthrene	87	82	66-126	11	30				
Pyrene	76	71	37-142	11	30				
Batch number: 15140A20A	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888659-7888661,7888664-7888665 UNSPK: 7888659								
TPH-GRO water C6-C10	103	100	75-135	2	30				
Batch number: 151380026A	Sample number(s): 7888647,7888649,7888652,7888659-7888661,7888665,7888670-7888672 UNSPK: 7888659								
Methane	101	108	46-129	6	20				
Batch number: 151410001A	Sample number(s): 7888646-7888647,7888649-7888650,7888652 UNSPK: P890913								
DRO C10-C28	52	51	47-129	1	20				
Batch number: 151410002A	Sample number(s): 7888653,7888659-7888661,7888664-7888666,7888669-7888672,7888674 UNSPK: 7888659								
DRO C10-C28	65	66	47-129	2	20				
Batch number: 151351848002	Sample number(s): 7888647,7888649,7888652,7888659-7888662,7888665,7888670-7888672 UNSPK: 7888659 BKG: 7888659								
Arsenic	109	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Cadmium	98	100	75-125	1	20	0.00059 J	0.00049 J	19 (1)	20
Chromium	102	103	75-125	1	20	0.0122 J	0.0121 J	1 (1)	20
Copper	102	104	75-125	2	20	0.0123	0.0124	1 (1)	20
Lead	104	104	75-125	0	20	0.0108 J	0.0128 J	17 (1)	20
Manganese	125	142*	75-125	5	20	0.975	0.981	1	20
Molybdenum	100	101	75-125	1	20	0.0032 J	N.D.	200* (1)	20
Nickel	100	102	75-125	1	20	0.0363	0.0358	1 (1)	20
Silver	89	89	75-125	0	20	N.D.	N.D.	0 (1)	20
Batch number: 151355713003	Sample number(s): 7888655-7888656 UNSPK: P886329 BKG: P886329								
Mercury	101	102	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151381848001	Sample number(s): 7888655-7888657 UNSPK: P889473 BKG: P889473								
Arsenic	112	106	75-125	6	20	N.D.	N.D.	0 (1)	20
Cadmium	105	98	75-125	7	20	N.D.	N.D.	0 (1)	20
Chromium	107	98	75-125	9	20	N.D.	N.D.	0 (1)	20
Copper	111	102	75-125	8	20	N.D.	N.D.	0 (1)	20
Lead	110	101	75-125	8	20	N.D.	N.D.	0 (1)	20
Molybdenum	108	101	75-125	7	20	0.0073 J	0.0019 J	118* (1)	20
Nickel	109	100	75-125	8	20	N.D.	N.D.	0 (1)	20
Silver	93	89	75-125	4	20	N.D.	N.D.	0 (1)	20
Batch number: 151395713001	Sample number(s): 7888665,7888671 UNSPK: P889676 BKG: P889676								
Mercury	105	105	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151395713003	Sample number(s): 7888657 UNSPK: 7888657 BKG: 7888657								
Mercury	97	91	80-120	7	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 15135105101A	Sample number(s): 7888647,7888649,7888652,7888659- 7888660,7888662,7888665,7888670-7888672 UNSPK: 7888659 BKG: 7888659								
Nitrite Nitrogen	100		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15141667901B	Sample number(s): 7888647,7888649,7888652,7888659- 7888660,7888662,7888665,7888670-7888672 UNSPK: 7888659 BKG: 7888659								
Sulfate	107		90-110			254	282	11	20
Batch number: 15144102101A	Sample number(s): 7888655-7888657,7888665,7888671 UNSPK: P892911 BKG: P892911								
Total Cyanide (water)	98		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15145106103A	Sample number(s): 7888647,7888649,7888652 UNSPK: P888659 BKG: P888659								
Nitrate Nitrogen	115*		90-110			1.9	1.9	0	2
Batch number: 15145106103B	Sample number(s): 7888671-7888672 UNSPK: 7888671 BKG: 7888671								
Nitrate Nitrogen	103		90-110			0.084 J	0.084 J	0 (1)	2
Batch number: 15145106104A	Sample number(s): 7888665 UNSPK: P888835 BKG: P888835								
Nitrate Nitrogen	101		90-110			4.3	4.3	0	2
Batch number: 15145106108A	Sample number(s): 7888670 UNSPK: P894613 BKG: P894613								
Nitrate Nitrogen	103		90-110			N.D.	N.D.	0 (1)	2
Batch number: 15151106109B	Sample number(s): 7888659-7888660,7888662 UNSPK: 7888659 BKG: 7888659								
Nitrate Nitrogen	96		90-110			2.0	2.0	1	2
Batch number: 15134121451A	Sample number(s): 7888646 BKG: P887001								
Turbidity						6.8	6.7	1	8
Batch number: 15134121451B	Sample number(s): 7888647,7888649-7888650,7888652- 7888653,7888659,7888662,7888664-7888665 BKG: 7888652								
Turbidity						31.7	32.4	2	8
Batch number: 15134121452A	Sample number(s): 7888669,7888671 BKG: 7888669								
Turbidity						120	121	1	8
Batch number: 15136834401A	Sample number(s): 7888647,7888649,7888652,7888659-7888662,7888665,7888670- 7888672 UNSPK: 7888659 BKG: 7888659								
Ferrous Iron	31*	30*	93-105	2	6	0.075	0.095	24* (1)	5
Batch number: 15138002103A	Sample number(s): 7888647,7888652,7888659-7888662,7888670,7888672 UNSPK: 7888659 BKG: 7888659								
Total Alkalinity to pH 4.5	96	95	90-110	0	5	81.7	81.7	0	5
Batch number: 15138002104A	Sample number(s): 7888649 UNSPK: P888990 BKG: P888990								
Total Alkalinity to pH 4.5	22*		90-110			229	232	1	5
Batch number: 15138002104B	Sample number(s): 7888671 UNSPK: P888990 BKG: 7888671								
Total Alkalinity to pH 4.5	22*		90-110			101	100	1	5
Batch number: 15140006102A	Sample number(s): 7888665 UNSPK: P893640 BKG: P893640								

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Total Alkalinity to pH 4.5	35*		90-110		212	213	0	5
Batch number: 15144807901A	Sample number(s): 7888646-7888647,7888649-7888650,7888652-7888653,7888655-7888657,7888659-7888660,7888665-7888666,7888669,7888671,7888674 UNSPK: 7888659							
HEM (oil & grease)	118*		78-114					

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC,Naph
Batch number: F151411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7888646	98	99	97	90
7888647	98	99	98	92
7888648	98	99	98	90
7888649	97	100	97	95
7888650	99	101	97	96
7888651	98	100	98	91
7888652	97	98	97	96
7888653	96	100	99	95
7888654	97	99	98	89
Blank	97	99	99	92
LCS	97	100	99	95
LCSD	96	95	98	94
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX,MTBE,TBA,EDB,EDC,Naph
Batch number: F151412AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7888659	99	102	99	90
7888660	98	103	97	93
7888661	94	103	97	94
7888663	95	99	98	89
7888664	97	101	98	90
7888665	97	100	96	95
7888666	98	99	98	95
7888667	97	101	97	89
7888668	96	102	97	88
7888669	97	104	97	95
7888671	97	101	99	93
7888672	99	103	99	95
7888673	98	106	98	91
7888674	99	102	97	88
Blank	97	98	98	90
LCS	97	100	97	93
MS	98	103	97	93

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Surrogate Quality Control

MSD	94	103	97	94
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX, MTBE, TBA, EDB, EDC, Naph
Batch number: Z151421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7888658	105	100	101	98
Blank	104	99	100	98
LCS	101	98	100	103
MS	103	97	100	105
MSD	102	99	100	105
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15138WAN026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7888646	64	42	92
7888647	78	87	91
7888649	75	68	95
7888650	66	41	107
7888652	97	59	102
7888653	71	97	108
7888659	100	58	91
7888660	85	41	95
7888661	79	37	96
7888664	97	58	107
7888665	206*	73	91
7888666	188*	71	121
7888669	198*	89	140*
7888671	107	71	82
7888674	92	97	96
Blank	103	95	87
LCS	92	98	94
MS	85	41	95
MSD	79	37	96
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15140A20A

	Trifluorotoluene-F
7888646	94
7888647	92
7888649	93
7888650	92
7888652	90
7888653	92
7888659	93
7888660	101
7888661	101
7888664	91
7888665	94
Blank	93
LCS	98
MS	101

*- Outside of specification

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Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Surrogate Quality Control

MSD 101
Limits: 63-135

Analysis Name: TPH-GRO water C6-C10
Batch number: 15140B94A
Trifluorotoluene-F

7888666 82
7888669 83
7888671 87
7888674 93
Blank 79
LCS 98
LCSD 98

Limits: 63-135

Analysis Name: Methane
Batch number: 151380026A
Propene

7888647 96
7888649 87
7888652 93
7888659 58
7888660 81
7888661 86
7888665 98
7888670 95
7888671 90
7888672 96
Blank 103
LCS 97
MS 81
MSD 86

Limits: 47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 151410001A
Orthoterphenyl

7888646 71
7888647 109
7888649 71
7888650 74
7888652 71
Blank 73
LCS 72
MS 76
MSD 74

Limits: 42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 151410002A
Orthoterphenyl

7888653 116
7888659 112
7888660 105
7888661 105

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/02/2015 12:51

Group Number: 1561298

Surrogate Quality Control

7888664	88
7888665	173*
7888666	181*
7888669	181*
7888670	156
7888671	111
7888672	129
7888674	119
Blank	115
LCS	112
MS	105
MSD	105
Limits:	42-160

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



**Lancaster Laboratories
Environmental**

Environmental Analysis Request/Chain of Custody

Acct. # 8390 Group # 1561298 Sample # 7888646-74

Groundwater & Env. Services, Inc.						Matrix		Analyses Requested																		For Lab Use Only						
Project Name#:		NRG PRGS		Site ID #: NRG PRGS						Preservation Codes																		SF #:				
Project Manager:		Gregory Reichart		P.O. #: 0402915						H	H	H	None	N	None	None	S	H	None	N	H	N	B	N	SCR #:							
Sampler:		Lindsay Keeney		PWSID #:						TPH-DRO C10-C28 (SW-846 8015B)	BTEX,Naphthalene,MTBE, TBA, EDC, EDB (SW-846 8260B)	TPH-GRO C6-C10 (SW-846 8015B)	PAHs by SIM (SW-346 8270C SIM)	HEM Oil and Grease (EPA 1664A)	Turbidity (SM 2130B)	Alkalinity (SM 2320F)	Nitrate NO3 -1 (EPA 353.2)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO42- (EPA 300.0)	Manganese Mn2+ (EPA 6010B)	Methane (RSKSOP-175 modified)	Total Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver) (EPA 6010)	Cyanide, Total (EPA 335)	Mercury, Total (EPA 7470)	Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other							
State where sample(s) were collected:		1400 North Royal St., Alexandria, VA																														
Sample Identification		Date	Time	Grab	Composite	Soil	Sediment	Potable	Water	NPDES	Other: Trip Blank	Total # of Containers																			Remarks	
TW-02		5-13-15	0955	X					X			12	X	X	X	X	X	X	X	X	X						Cooler 1					
TW-03			1020						X			22	X	X	X	X	X	X	X	X	X						↓					
TB1-51315			0930								X	3		X													Cooler 2					
TW-07			1045						X			21	X	X	X	X	X	X	X	X	X						↓					
TW-04			1105						X			12	X	X	X	X	X										Cooler 3					
TB2-51315			1030								X	3		X													↓					
TW-05			1120						X			21	X	X	X	X	X	X	X	X	X						Cooler 3					
TW-06			1200						X			12	X	X	X	X	X										↓					
TB3-51315			1130								X	3		X													↓					
MW-51			1245						X			4															↓					
MW-25			1300						X			4															↓					
MW-05			1330						X			4															↓					
TB8-51315			1435								X	3		X													↓					
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>						Relinquished by: [Signature]						Date		Time		Received by: [Signature]						Date		Time								
(Rush TAT is subject to laboratory approval and surcharges.)												5-14-15		1030								5/14/15		10:30								
Date results are needed:						Relinquished by: [Signature]						Date		Time		Received by: [Signature]						Date		Time								
												5/14/15		1520																		
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>						Relinquished by: [Signature]						Date		Time		Received by: [Signature]						Date		Time								
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com																																
Phone:																																
Data Package Options (please check if required)						Relinquished by: [Signature]						Date		Time		Received by: [Signature]						Date		Time								
Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/>																																
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>																																
Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/>																																
NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B																																
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: GES EQEDD						Relinquished by Commercial Carrier:						Date		Time		Received by: [Signature]						Date		Time								
EQEDD Name: NRG PRGS.Lab report #.25800.EQEDD.zip																						5/14/15		1520								
UPS FedEx Other																																

2

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 8390 Group # 1561298 Sample # 7888646-74

Client: Groundwater & Env. Services, Inc.				Matrix		Analyses Requested																		For Lab Use Only	
Project Name/#: NRG PRGS		Site ID #: NRG PRGS		<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface		Preservation Codes																		SF #:	
Project Manager: Gregory Reichart		P.O. #: 0402915		<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Water		H H H None N None None S H None N H N B N TPH-DRO C10-C28 (SW-846 8015B) BTEX Naphthalene, MTBE, TBA, EDC, EDB (SW-846 8260B) TPH-GRO C6-C10 (SW-846 8015B) PAHs by SIM (SW-846 8270C SIM) HEM Oil and Grease (EPA 1664A) Turbidity (SM 2130B) Alkalinity (SM 2320B) Nitrate NO3-1 (EPA 353.2) Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) Sulfate SO42- (EPA 300.0) Manganese Mn2+ (EPA 6010B) Methane (RSKSOP-175 modified) Total Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver) (EPA 6010) Cyanide, Total (EPA 335) Mercury, Total (EPA 7470)																		SCR #:	
Sampler: Nick Goglichi		PWSID #:		Other:																					
Phone #: 800-220-3606 x 3717		Quote #: 212032A																							
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA																									
Sample Identification		Date	Time	Grab	Composite																			Remarks	
MW-33	5-13	1200	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 7		
MW-33 MD	5-13	1210	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 7		
MW-33 MSD	5-13	1220	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 7		
TB7-513	5-5-15		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Trip blank - cooler 7		
MW-303	5-13	1310	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 6 - cooler 7		
Field Dup	5-13		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	wrong parameters, see 05/15/15		
MW-31	5-13	1330	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 5		
Field Dup	5-13		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 5		
TB6-513	5-5		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 6		
TB5-513	5-5		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 5		
MW-27	5-13	1400	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 6		
MW-515	5-13	1420	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cooler 6		

Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5-13-15</u>	Time: <u>1500</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5-13-15</u>	Time: <u>1500</u>
(Rush TAT is subject to laboratory approval and surcharges.)		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5-14-15</u>	Time: <u>1030</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1030</u>
Date results are needed:		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
E-mail Address: <u>mdlabs@gesonline.com & ges@equisonline.com</u>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Phone: <u></u>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Data Package Options (please check if required)		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Type I (Validation/non-CLP) <input type="checkbox"/>	MA MCP <input type="checkbox"/>	Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Type III (Reduced non-CLP) <input type="checkbox"/>	CT RCP <input type="checkbox"/>	Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Type VI (Raw Data Only) <input type="checkbox"/>	TX TRRP-13 <input type="checkbox"/>	Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: <u>GES EQEDD</u>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
EQEDD Name: <u>NRG PRGS.Lab report #.25800.EQEDD.zip</u>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input type="checkbox"/>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>
Temperature upon receipt <u>12-0.8°C</u>		Relinquished by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>	Received by: <u>Nick Goglichi</u>		Date: <u>5/14/15</u>	Time: <u>1520</u>

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7045 0614

* BOTTLES FOR OIL AND GREASE FOR MW-303 NOT RECEIVED. THE ANALYSIS WILL NOT BE PERFORMED. KNP 5/15/15



**Lancaster Laboratories
Environmental**

Environmental Analysis Request/Chain of Custody

Acct. # 8390 Group # 1561298 Sample # 7808646-74

[illegible]

Client: GES**Delivery and Receipt Information**

Delivery Method: ELLE Courier Arrival Timestamp: 05/14/2015 15:20
 Number of Packages: 8 Number of Projects: 1
 State/Province of Origin: VA

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	Yes
Samples Chilled:	Yes	VOA IDs (\geq 6mm):	MW-51S
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	21
Samples Intact:	Yes	Trip Blank Type:	HCI
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

*Unpacked by Patrick Engle (3472) at 18:10 on 05/14/2015***Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.8	DT	Wet	Y	Loose	N
2	DT121	0.3	DT	Wet	Y	Loose	N
3	DT121	0.3	DT	Wet	Y	Loose	N
4	DT121	0.7	DT	Wet	Y	Loose	N
5	DT121	0.5	DT	Wet	Y	Loose	N
6	DT121	0.3	DT	Wet	Y	Loose	N
7	DT121	0.2	DT	Wet	Y	Loose	N
8	DT121	0.3	DT	Wet	Y	Loose	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
MW-30S	10	12	
MW-31	23	21	
Field DUP	12	11	

General Comments: Received 2-40mL HCI preserved vials for MW-51S with cracked caps, caps replaced but headspace present.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

May 30, 2015

Project: NRG PRGS

Submittal Date: 05/13/2015

Group Number: 1560958

PO Number: NRG PRGS

Release Number: 0402915

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-52 Grab Groundwater	7886749
MW-16 Grab Groundwater	7886750
MW-106 Grab Groundwater	7886751
MW-107 Grab Groundwater	7886752
MW-155 Grab Groundwater	7886753
MW-14 Grab Groundwater	7886754
Rinsate 1 Grab Water	7886755
MW-70 Grab Groundwater	7886756

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC GES

COPY TO

Attn: Greg Reichart

ELECTRONIC GES, Inc.-MD

COPY TO

Attn: Data Distribution

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-52 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886749
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 09:55 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-52

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
	GC Petroleum Hydrocarbons	SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 18:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-16 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886750
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 10:15 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

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Odenton MD 21113

NR-16

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.017 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.015 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.027 J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.016 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.011 J	0.010	1
08357	Chrysene	218-01-9	0.024 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.041 J	0.010	1
08357	Fluorene	86-73-7	0.013 J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.016 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.020 J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.030 J	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.030	1
08357	Phenanthrene	85-01-8	0.031 J	0.030	1
08357	Pyrene	129-00-0	0.025 J	0.010	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

GC Volatiles		SW-846 8015B modified		ug/l	ug/l
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons		SW-846 8015B		ug/l	ug/l
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry		EPA 1664A		mg/l	mg/l
08079	HEM (oil & grease)	n.a.	1.8 J	1.4	1
		SM 2130 B-2001		N T U	N T U
12145	Turbidity	n.a.	2,510	14.0	100

Sample Description: MW-16 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886750
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 10:15 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-16

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 15:31	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 15:31	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/19/2015 01:13	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138B20A	05/18/2015 17:56	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138B20A	05/18/2015 17:56	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 18:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121452A	05/13/2015 21:30	Luz M Groff	100

Sample Description: MW-106 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886751
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:00 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR106

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	5	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	2 J	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	11	0.10	10
08357	Acenaphthylene	208-96-8	N.D.	0.10	10
08357	Anthracene	120-12-7	7.0	0.10	10
08357	Benzo(a)anthracene	56-55-3	2.7	0.10	10
08357	Benzo(a)pyrene	50-32-8	1.6	0.10	10
08357	Benzo(b)fluoranthene	205-99-2	2.2	0.10	10
08357	Benzo(g,h,i)perylene	191-24-2	1.1	0.10	10
08357	Benzo(k)fluoranthene	207-08-9	0.88	0.10	10
08357	Chrysene	218-01-9	3.0	0.10	10
08357	Dibenz(a,h)anthracene	53-70-3	0.36 J	0.10	10
08357	Fluoranthene	206-44-0	9.5	0.10	10
08357	Fluorene	86-73-7	13	0.10	10
08357	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	0.10	10
08357	1-Methylnaphthalene	90-12-0	53	0.10	10
08357	2-Methylnaphthalene	91-57-6	39	0.10	10
08357	Naphthalene	91-20-3	13	0.30	10
08357	Phenanthrene	85-01-8	25	0.30	10
08357	Pyrene	129-00-0	13	0.10	10
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	75	20	1
GC Miscellaneous RSKSOP-175 modified ug/l					
07105	Methane	74-82-8	960	15	5
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	7,800	45	1
Metals SW-846 6010B mg/l					
07058	Manganese	7439-96-5	1.49	0.00083	1
Wet Chemistry EPA 300.0 mg/l					
00228	Sulfate	14808-79-8	1,160	60.0	200
EPA 353.2 mg/l					

Sample Description: MW-106 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886751
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:00 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR106

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.15	0.015	1
EPA 353.2					
mg/l					
EPA 1664A					
mg/l					
08079	HEM (oil & grease)	n.a.	9.9	1.4	1
SM 2130 B-2001					
N T U					
12145	Turbidity	n.a.	4,400	28.0	200
SM 2320 B-1997					
mg/l as CaCO3					
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	0.70	1
SM 3500-Fe B modified-1997					
mg/l					
08344	Ferrous Iron	n.a.	50.1	1.0	100

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 15:53	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 15:53	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/19/2015 13:44	Holly B Ziegler	10
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138B20A	05/18/2015 18:24	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138B20A	05/18/2015 18:24	Marie D Beamenderfer	1
07105	Methane	RKSOP-175 modified	1	151340025A	05/15/2015 13:24	Nicholas R Rossi	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 19:03	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:45	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667601B	05/20/2015 22:06	Drew M Gerhart	200
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:13	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:45	Venia B McFadden	1

Sample Description: MW-106 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886751
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:00 by NG

GES, Inc.

Suite A

Submitted: 05/13/2015 17:30

1350 Blair Dr

Reported: 05/30/2015 13:27

Odenton MD 21113

NR106

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121452A	05/13/2015 21:30	Luz M Groff	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003105A	05/15/2015 04:45	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	100

Sample Description: MW-107 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886752
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:20 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR107

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	5	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	3	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.011	1
08357	Acenaphthylene	208-96-8	0.036 J	0.011	1
08357	Anthracene	120-12-7	0.17	0.011	1
08357	Benzo(a)anthracene	56-55-3	0.21	0.011	1
08357	Benzo(a)pyrene	50-32-8	0.12	0.011	1
08357	Benzo(b)fluoranthene	205-99-2	0.26	0.011	1
08357	Benzo(g,h,i)perylene	191-24-2	0.10	0.011	1
08357	Benzo(k)fluoranthene	207-08-9	0.099	0.011	1
08357	Chrysene	218-01-9	0.31	0.011	1
08357	Dibenz(a,h)anthracene	53-70-3	0.035 J	0.011	1
08357	Fluoranthene	206-44-0	0.63	0.011	1
08357	Fluorene	86-73-7	0.080	0.011	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.11	0.011	1
08357	1-Methylnaphthalene	90-12-0	0.38	0.011	1
08357	2-Methylnaphthalene	91-57-6	0.80	0.011	1
08357	Naphthalene	91-20-3	0.41	0.034	1
08357	Phenanthrene	85-01-8	0.53	0.034	1
08357	Pyrene	129-00-0	0.54	0.011	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	40 J	20	1
GC Petroleum SW-846 8015B ug/l					
12858	DRO C10-C28	n.a.	150	45	1
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	2.1 J	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	19,500	70.0	500

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-107 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886752
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:20 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR107

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 16:15	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 16:15	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/19/2015 02:09	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138B20A	05/18/2015 18:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138B20A	05/18/2015 18:51	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 19:26	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121452A	05/13/2015 21:30	Luz M Groff	500

Sample Description: MW-155 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886753
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:20 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR155

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	1,800	45	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) associated with the reextract is outside the QC acceptance limits. The client was contacted and the data reported.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 19:50	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-14 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886754
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:50 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	RSKSOP-175 modified		ug/l	ug/l	
07105	Methane	74-82-8	660	15	5
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	5,500	45	1
Metals	SW-846 6010B		mg/l	mg/l	
07058	Manganese	7439-96-5	8.54	0.00083	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	
00228	Sulfate	14808-79-8	44.3	1.5	5
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	0.60	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.023 J	0.015	1
	SM 2320 B-1997		mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	76.8	0.70	1
	SM 3500-Fe B modified-1997		mg/l	mg/l	
08344	Ferrous Iron	n.a.	6.3	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151340025A	05/15/2015 13:42	Nicholas R Rossi	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 20:13	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:49	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667152A	05/21/2015 03:47	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:17	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:46	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003105A	05/15/2015 04:52	Michele L Graham	1

Sample Description: MW-14 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886754
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:50 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: Rinsate 1 Grab Water
NRG - PRGS

LL Sample # WW 7886755
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:45 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-R1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 12:36	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 12:36	Brett W Kenyon	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138B20A	05/18/2015 11:32	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138B20A	05/18/2015 11:32	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 20:36	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-70 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886756
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 14:30 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-70

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	RSKSOP-175 modified		ug/l	ug/l	
07105	Methane	74-82-8	3.4 J	3.0	1
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	100	45	1
Metals	SW-846 6010B		mg/l	mg/l	
07058	Manganese	7439-96-5	6.13	0.00083	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	
00228	Sulfate	14808-79-8	357	15.0	50
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	0.70	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	40.7	0.70	1
	SM 3500-Fe B modified-1997		mg/l	mg/l	
08344	Ferrous Iron	n.a.	N.D.	0.50	50

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151380026A	05/19/2015 01:54	Kristen N Brandt	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360027A	05/19/2015 20:59	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360027A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:52	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667601B	05/20/2015 21:50	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:18	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 23:18	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003105A	05/15/2015 04:19	Michele L Graham	1

Sample Description: MW-70 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886756
LL Group # 1560958
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 14:30 by NG

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/30/2015 13:27

1350 Blair Dr

Odenton MD 21113

NR-70

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	50

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/30/2015 13:27

Group Number: 1560958

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F151402AA	Sample number(s): 7886750-7886752,7886755							
Benzene	N.D.	0.5	ug/l	91	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	102	99	78-121	3	30
1,2-Dibromoethane	N.D.	0.5	ug/l	94	93	80-120	0	30
1,2-Dichloroethane	N.D.	0.5	ug/l	89	92	72-127	4	30
Ethylbenzene	N.D.	0.5	ug/l	90	90	80-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86	85	75-120	1	30
Naphthalene	N.D.	1.	ug/l	92	90	59-120	3	30
Toluene	N.D.	0.5	ug/l	92	92	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	90	90	80-120	0	30
Batch number: 15135WAD026	Sample number(s): 7886750-7886752							
Acenaphthene	N.D.	0.010	ug/l	78	102	76-139	26	30
Acenaphthylene	N.D.	0.010	ug/l	73	81	67-120	11	30
Anthracene	N.D.	0.010	ug/l	84	93	72-128	9	30
Benzo(a)anthracene	N.D.	0.010	ug/l	84	91	71-127	8	30
Benzo(a)pyrene	N.D.	0.010	ug/l	77	82	64-132	7	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	85	93	71-139	9	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	83	89	49-140	7	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	78	86	63-136	10	30
Chrysene	N.D.	0.010	ug/l	79	87	72-132	9	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	85	91	37-142	7	30
Fluoranthene	N.D.	0.010	ug/l	86	89	76-121	4	30
Fluorene	N.D.	0.010	ug/l	80	89	71-124	10	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	83	90	45-136	8	30
1-Methylnaphthalene	N.D.	0.010	ug/l	84	93	65-122	11	30
2-Methylnaphthalene	N.D.	0.010	ug/l	83	93	59-124	11	30
Naphthalene	N.D.	0.030	ug/l	76	93	69-119	20	30
Phenanthrene	N.D.	0.030	ug/l	78	87	75-121	11	30
Pyrene	N.D.	0.010	ug/l	77	81	70-124	4	30
Batch number: 15138B20A	Sample number(s): 7886750-7886752,7886755							
TPH-GRO water C6-C10	N.D.	20.	ug/l	93	95	80-129	1	30
Batch number: 151340025A	Sample number(s): 7886751,7886754							
Methane	N.D.	3.0	ug/l	109		85-115		
Batch number: 151380026A	Sample number(s): 7886756							
Methane	N.D.	3.0	ug/l	106		85-115		
Batch number: 151360027A	Sample number(s): 7886749-7886756							
DRO C10-C28	N.D.	45.	ug/l	73	76	69-115	3	20
Batch number: 151351848002	Sample number(s): 7886751,7886754,7886756							

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1560958

Reported: 05/30/2015 13:27

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Manganese	N.D.	0.00083	mg/l	102		80-120		
Batch number: 15133105101A	Sample number(s): 7886751,7886754,7886756							
Nitrite Nitrogen	N.D.	0.015	mg/l	90		90-110		
Batch number: 15140106101A	Sample number(s): 7886751,7886754,7886756							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		90-110		
Batch number: 15140667152A	Sample number(s): 7886754							
Sulfate	N.D.	0.30	mg/l	101	99	90-110	2	20
Batch number: 15140667601B	Sample number(s): 7886751,7886756							
Sulfate	N.D.	0.30	mg/l	99		90-110		
Batch number: 15133121452A	Sample number(s): 7886750-7886752							
Turbidity	0.14 J	0.14	N T U	97		90-110		
Batch number: 15134003105A	Sample number(s): 7886751,7886754,7886756							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO ₃	96		90-110		
Batch number: 15136834401A	Sample number(s): 7886751,7886754,7886756							
Ferrous Iron	N.D.	0.010	mg/l	98		93-105		
Batch number: 15144807901A	Sample number(s): 7886750-7886752							
HEM (oil & grease)	1.4 J	1.4	mg/l	95	94	78-114	0	11

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151340025A	Sample number(s): 7886751,7886754 UNSPK: P879550								
Methane	98	99	46-129	1	20				
Batch number: 151380026A	Sample number(s): 7886756 UNSPK: P888659								
Methane	101	108	46-129	6	20				
Batch number: 151351848002	Sample number(s): 7886751,7886754,7886756 UNSPK: P888659 BKG: P888659								
Manganese	125	142*	75-125	5	20	0.975	0.981	1	20
Batch number: 15133105101A	Sample number(s): 7886751,7886754,7886756 UNSPK: P886833 BKG: P886833								
Nitrite Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Batch number: 15140106101A	Sample number(s): 7886751,7886754,7886756 UNSPK: 7886756 BKG: 7886756								
Nitrate Nitrogen	103		90-110			0.70	0.75	8*	2
Batch number: 15140667152A	Sample number(s): 7886754 UNSPK: P887760 BKG: P887760								
Sulfate	100		90-110			326	327	0	20
Batch number: 15140667601B	Sample number(s): 7886751,7886756 UNSPK: P895279 BKG: P895279								

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: GES, Inc.
Reported: 05/30/2015 13:27

Group Number: 1560958

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Sulfate	94		90-110		16.7	16.2	3 (1)	20	
Batch number: 15133121452A	Sample number(s): 7886750-7886752 BKG: P886991								
Turbidity					0.89 J	0.88 J	1 (1)	8	
Batch number: 15134003105A	Sample number(s): 7886751,7886754,7886756 UNSPK: P885411 BKG: P885411								
Total Alkalinity to pH 4.5	91		90-110		26.2	27.0	3	5	
Batch number: 15136834401A	Sample number(s): 7886751,7886754,7886756 UNSPK: P888659 BKG: P888659								
Ferrous Iron	31*	30*	93-105	2	6	0.075	0.095	24* (1)	5
Batch number: 15144807901A	Sample number(s): 7886750-7886752 UNSPK: P888659								
HEM (oil & grease)	118*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX,MTBE,TBA,EDB,EDC,Naph
Batch number: F151402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7886750	97	103	99	91
7886751	97	99	99	95
7886752	97	100	99	91
7886755	99	104	98	90
Blank	97	101	98	90
LCS	95	99	97	93
LCSD	97	99	99	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15135WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7886750	99	22*	87
7886751	283*	47	190*
7886752	72	66	89
Blank	94	90	80
LCS	92	91	77
LCSD	102	96	87
Limits:	56-134	26-158	52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15138B20A

	Trifluorotoluene-F
7886750	94
7886751	91

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/30/2015 13:27

Group Number: 1560958

Surrogate Quality Control

7886752 91
7886755 92
Blank 92
LCS 99
LCSD 100
Limits: 63-135

Analysis Name: Methane
Batch number: 151340025A
Propene

7886751 92
7886754 89
Blank 105
LCS 107
MS 85
MSD 90
Limits: 47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 151360027A
Orthoterphenyl

7886749 99
7886750 104
7886751 72
7886752 107
7886753 27*
7886754 110
7886755 112
7886756 76
Blank 112
LCS 109
LCSD 109
Limits: 42-160

Analysis Name: Methane
Batch number: 151380026A
Propene

7886756 87
Blank 103
LCS 97
MS 81
MSD 86
Limits: 47-116

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

ORIGINAL

Environmental Analysis Request/Chain of Custody

Lancaster Laboratories
EnvironmentalAcct. # 8390 Group # 1560950 Sample # 7886749-56

Cookers 3A-4

Client: Groundwater & Env. Services, Inc.				Matrix		Analyses Requested																		For Lab Use Only							
Project Name/ID:		Site ID #:		Sediment		Preservation Codes																		SF #:							
Project Manager:		P.O. #:		Ground																				SCR #:							
Sampler:		PWSID #:		Potable																											
Phone #:		Quote #:		NPDES																											
State where sample(s) were collected:						Other:																									
Sample Identification				Collection		Soil		Water		Total # of Containers																				Remarks	
				Date	Time	Grab	Composite					H	H	H	None	N	None	None	S	H	None	N	H	N	B	N					
MW-52				5-12-15	0955	X		X		2	X																		Cooker 3		
MW-16					105	X		X		13	X	X	X	X	X	X	X												Cookers 3A-4		
MW-106					1100	X		X		2	X	X	X	X	X	X	X												Cookers 3A-4		
MW-107					1120	X		X		13	X	X	X	X	X	X	X												Cookers 3A-4		
MW-155					1220	X		X		2	X								X	X	X	X	X	X	X	X	X	X	Could not fill all bottles		
MW-14				5-12-15	1250	X		X		11	X								X	X	X	X	X	X	X	X	X	X	DRO only -		
TB3-51215				5-5-15		X		X		2	X	X																	Cookers 3 A-4		
Rinsale 1				5-12-15	1345	X		X		7	X	X	X																Trip blank - cooker 3		
MW-015				5-12-15		X		X		11	X	X	X						X	X	X	X	X	X	X	X	X	X	Rinsale blank - cooker 3		
MW-70				5-12-15	1420	X		X		X									A	X	X	X	X	X	X	X	X	X	Cookers 3 Not Sampled		
																													Cooker 3		
																													TB3 WAS NOT RECEIVED		
																													BY ELLE.KNP 5/13/15		
Turnaround Time Requested (TAT) (please check):				Standard	<input checked="" type="checkbox"/>	Rush	<input type="checkbox"/>	Relinquished by:		Date	Time	Received by:		Date	Time																
(Rush TAT is subject to laboratory approval and surcharges.)								Mark Angeli		5-12-15	1500	Jeff Plummer		5-12-15	1500																
Date results are needed:								Relinquished by:		Date	Time	Received by:		Date	Time																
Rush results requested by (please check):				E-Mail	<input checked="" type="checkbox"/>	Phone	<input type="checkbox"/>	Jeff Plummer		5-12-15	0730	Denise Wooding		5-13-15	0800																
E-mail Address:				mdlabs@gesonline.com & ges@equisonline.com				Relinquished by:		Date	Time	Received by:		Date	Time																
Phone:								Denise Wooding		5-13-15	11:40	Jm		5/13/15	11:40																
Data Package Options (please check if required)								Relinquished by:		Date	Time	Received by:		Date	Time																
Type I (Validation/non-CLP)				<input type="checkbox"/>	MA MCP	<input type="checkbox"/>		Jm		5/13/15	17:20																				
Type III (Reduced non-CLP)				<input type="checkbox"/>	CT RCP	<input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time																
Type VI (Raw Data Only)				<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time																
NYSDEC Category				<input type="checkbox"/>	A	or	<input type="checkbox"/>	B	Relinquished by Commercial Carrier:				Received by:		Date	Time															
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				If yes, format: GES EQEDD																											
EQEDD Name: NRG PRGS.Lab report #.25800.EQEDD.zip								UPS		FedEx	Other			Temperature upon receipt		0.6															

Client: GES**Delivery and Receipt Information**

Delivery Method: ELLE Courier Arrival Timestamp: 05/13/2015 17:30
Number of Packages: 2 Number of Projects: 1
State/Province of Origin: VA

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

*Unpacked by Patrick Engle (3472) at 19:09 on 05/13/2015***Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.6	DT	Wet	Y	Loose/Bag	N
2	DT121	0.6	DT	Wet	Y	Loose/Bag	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
MW-107	11	13	
Rinsate 1	8	7	

General Comments: Received 0 trip blanks in shipment

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

May 25, 2015

Project: NRG PRGS

Submittal Date: 05/13/2015

Group Number: 1560949

PO Number: NRG PRGS

Release Number: 0402915

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-109S Grab Groundwater	7886662
MW-109 Grab Groundwater	7886663
MW-110S Grab Groundwater	7886664
MW-110 Grab Groundwater	7886665
MW-111 Grab Groundwater	7886666
MW-112S Grab Groundwater	7886667
MW-112 Grab Groundwater	7886668
MW-113 Grab Groundwater	7886669
MW-114 Grab Groundwater	7886670
RW-1 Grab Groundwater	7886671
MW-11 Grab Groundwater	7886672
TB5-51215 Water	7886673

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

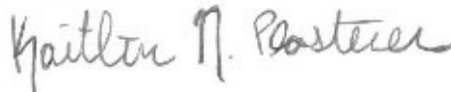
Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO
ELECTRONIC COPY TO
GES
GES, Inc.-MD

Attn: Greg Reichart

Attn: Data Distribution

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-109S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886662
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:50 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N109S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	4 J	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous RSKSOP-175 modified					
07105	Methane	74-82-8	11	3.0	1
GC Petroleum SW-846 8015B					
12858	DRO C10-C28	n.a.	180	45	1
Metals SW-846 6010B					
07058	Manganese	7439-96-5	2.34	0.00083	1
Wet Chemistry EPA 300.0					
00228	Sulfate	14808-79-8	62.7	1.5	5
EPA 353.2					
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	126	0.70	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	0.50	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 14:47	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 14:47	Brett W Kenyon	1

Sample Description: MW-109S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886662
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:50 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N109S

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151340025A	05/14/2015 21:49	Nicholas R Rossi	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 13:59	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:32	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667902A	05/21/2015 02:31	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:08	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:40	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003105A	05/15/2015 04:59	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: MW-109 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886663
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:45 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-109

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 15:09	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-110S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886664
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:30 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N110S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	2,300	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 15:33	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-110 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886665
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:15 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-110

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 15:56	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-111 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886666
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:45 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-111

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	150	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 16:19	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-112S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886667
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:30 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N112S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons		SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1
Metals		SW-846 6010B	mg/l	mg/l	
07058	Manganese	7439-96-5	0.597	0.00083	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	
00228	Sulfate	14808-79-8	98.9	3.0	10
		EPA 353.2	mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	2.5	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
		SM 2320 B-1997	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	13.8	0.70	1
		SM 3500-Fe B modified-1997	mg/l	mg/l	
08344	Ferrous Iron	n.a.	N.D.	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151340025A	05/14/2015 22:07	Nicholas R Rossi	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 16:43	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:35	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667902A	05/21/2015 02:48	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:09	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:41	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003105A	05/15/2015 05:59	Michele L Graham	1

Sample Description: MW-112S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886667
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:30 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N112S

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: MW-112 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886668
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 12:00 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-112

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 17:06	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-113 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886669
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:30 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 17:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-114 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886670
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:00 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-114

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	RSKSOP-175 modified		ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1
Metals	SW-846 6010B		mg/l	mg/l	
07058	Manganese	7439-96-5	0.0465	0.00083	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	
00228	Sulfate	14808-79-8	42.4	1.5	5
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	1.7	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	68.2	0.70	1
	SM 3500-Fe B modified-1997		mg/l	mg/l	
08344	Ferrous Iron	n.a.	0.035 J	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151340025A	05/14/2015 22:42	Nicholas R Rossi	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 17:53	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/20/2015 11:57	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667902A	05/21/2015 03:04	Drew M Gerhart	5
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:10	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:42	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003102A	05/14/2015 19:30	Michele L Graham	1

Sample Description: MW-114 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886670
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:00 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

N-114

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	1

Sample Description: RW-1 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886671
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 14:45 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

NRW01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	8,400	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 18:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-11 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886672
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 15:00 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

NMW11

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10945	Benzene	71-43-2	2	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous RSKSOP-175 modified					
07105	Methane	74-82-8	280	3.0	1
GC Petroleum SW-846 8015B					
12858	DRO C10-C28	n.a.	900	45	1
Metals SW-846 6010B					
07058	Manganese	7439-96-5	1.73	0.00083	1
Wet Chemistry EPA 300.0					
00228	Sulfate	14808-79-8	70.5	3.0	10
EPA 353.2					
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
SM 2320 B-1997					
12150	Total Alkalinity to pH 4.5	n.a.	40.8	0.70	1
SM 3500-Fe B modified-1997					
08344	Ferrous Iron	n.a.	0.75	0.020	2

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 15:09	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 15:09	Brett W Kenyon	1

Sample Description: MW-11 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886672
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 15:00 by JP

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

NMW11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	151340025A	05/14/2015 23:00	Nicholas R Rossi	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 18:40	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
07058	Manganese	SW-846 6010B	1	151351848002	05/19/2015 21:42	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151351848002	05/18/2015 17:52	James L Mertz	1
00228	Sulfate	EPA 300.0	1	15140667902A	05/21/2015 03:21	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	15140106101A	05/20/2015 19:12	Venia B McFadden	1
00219	Nitrite Nitrogen	EPA 353.2	1	15133105101A	05/13/2015 22:43	Venia B McFadden	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	15134003102A	05/14/2015 19:16	Michele L Graham	1
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	15136834401A	05/16/2015 07:45	Daniel S Smith	2

Sample Description: TB5-51215 Water
NRG - PRGS

LL Sample # WW 7886673
LL Group # 1560949
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:19

1350 Blair Dr

Odenton MD 21113

NRTB5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 12:14	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 12:14	Brett W Kenyon	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/25/2015 19:19

Group Number: 1560949

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F151402AA	Sample number(s): 7886662,7886672-7886673							
Benzene	N.D.	0.5	ug/l	91	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	102	99	78-121	3	30
1,2-Dibromoethane	N.D.	0.5	ug/l	94	93	80-120	0	30
1,2-Dichloroethane	N.D.	0.5	ug/l	89	92	72-127	4	30
Ethylbenzene	N.D.	0.5	ug/l	90	90	80-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86	85	75-120	1	30
Naphthalene	N.D.	1.	ug/l	92	90	59-120	3	30
Toluene	N.D.	0.5	ug/l	92	92	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	90	90	80-120	0	30
Batch number: 151340025A	Sample number(s): 7886662,7886667,7886670,7886672							
Methane	N.D.	3.0	ug/l	109		85-115		
Batch number: 151360026A	Sample number(s): 7886662-7886672							
DRO C10-C28	N.D.	45.	ug/l	80	82	69-115	3	20
Batch number: 151351848002	Sample number(s): 7886662,7886667,7886670,7886672							
Manganese	N.D.	0.00083	mg/l	102		80-120		
Batch number: 15133105101A	Sample number(s): 7886662,7886667,7886670,7886672							
Nitrite Nitrogen	N.D.	0.015	mg/l	90		90-110		
Batch number: 15140106101A	Sample number(s): 7886662,7886667,7886670,7886672							
Nitrate Nitrogen	N.D.	0.040	mg/l	103		90-110		
Batch number: 15140667902A	Sample number(s): 7886662,7886667,7886670,7886672							
Sulfate	N.D.	0.30	mg/l	103		90-110		
Batch number: 15134003102A	Sample number(s): 7886670,7886672							
Total Alkalinity to pH 4.5	0.87 J	0.70	mg/l as CaCO ₃	98		90-110		
Batch number: 15134003105A	Sample number(s): 7886662,7886667							
Total Alkalinity to pH 4.5	N.D.	0.70	mg/l as CaCO ₃	96		90-110		
Batch number: 15136834401A	Sample number(s): 7886662,7886667,7886670,7886672							
Ferrous Iron	N.D.	0.010	mg/l	98		93-105		

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1560949

Reported: 05/25/2015 19:19

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 151340025A Methane	Sample number(s): 7886662, 7886667, 7886670, 7886672 98	99	46-129	1	20		UNSPK: P879550		
Batch number: 151351848002 Manganese	Sample number(s): 7886662, 7886667, 7886670, 7886672 125	142*	75-125	5	20	0.975	UNSPK: P888659 0.981	BKG: P888659 1	20
Batch number: 15133105101A Nitrite Nitrogen	Sample number(s): 7886662, 7886667, 7886670, 7886672 102		90-110			N.D.	UNSPK: P886833 N.D.	BKG: P886833 0 (1)	20
Batch number: 15140106101A Nitrate Nitrogen	Sample number(s): 7886662, 7886667, 7886670, 7886672 103		90-110			0.70	UNSPK: P886756 0.75	BKG: P886756 8*	2
Batch number: 15140667902A Sulfate	Sample number(s): 7886662, 7886667, 7886670, 7886672 100		90-110			3.9	UNSPK: P889468 3.9	BKG: P889468 1 (1)	20
Batch number: 15134003102A Total Alkalinity to pH 4.5	Sample number(s): 7886670, 7886672 90		90-110			63.6	UNSPK: P885529 67.0	BKG: P885529 5	5
Batch number: 15134003105A Total Alkalinity to pH 4.5	Sample number(s): 7886662, 7886667 91		90-110			26.2	UNSPK: P885411 27.0	BKG: P885411 3	5
Batch number: 15136834401A Ferrous Iron	Sample number(s): 7886662, 7886667, 7886670, 7886672 31*	30*	93-105	2	6	0.075	UNSPK: P888659 0.095	BKG: P888659 24* (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX, MTBE, TBA, EDB, EDC, Naph

Batch number: F151402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7886662	98	101	98	90
7886672	97	102	99	91
7886673	99	105	98	90
Blank	97	101	98	90
LCS	95	99	97	93
LCSD	97	99	99	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Methane

Batch number: 151340025A

	Propene
7886662	81
7886667	86
7886670	88
7886672	87
Blank	105
LCS	107

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/25/2015 19:19

Group Number: 1560949

Surrogate Quality Control

MS 85
MSD 90
Limits: 47-116

Analysis Name: DRO micro-ext 8015B
Batch number: 151360026A
Orthoterphenyl

7886662 113
7886663 110
7886664 90
7886665 107
7886666 107
7886667 110
7886668 109
7886669 110
7886670 109
7886671 94
7886672 107
Blank 108
LCS 106
LCSD 103
Limits: 42-160

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

ORIGINAL

Acct. # 8390 Group # 1560949 Sample # 7886662-73

Client: Groundwater & Env. Services, Inc.			Matrix			Analyses Requested															For Lab Use Only																								
Project Name/ #: NRG PRGS		Site ID #: NRG PRGS		<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface		Preservation Codes															SF #:																								
Project Manager: Gregory Reichart		P.O. #: 0402915		<input type="checkbox"/> Potable <input type="checkbox"/> NPDES																	SCR #:																								
Sampler: Jeff Plummer		PWSID #:		<input type="checkbox"/> Water																																									
Phone #: 800-220-3606 x 3717		Quote #: 212032A		<input type="checkbox"/> Other:																																									
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA																																													
Sample Identification			Collection		Grab	Composite	Soil	Water	Other:	Total # of Containers																Preservation Codes																			
			Date	Time																						H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other																			
MW-109S			5-12-15	1350	X			X		14	TPH-DRO C10-C28 (SW-846 8015B)	X	BTEX Naphthalene, MTBE, TBA, EDC, EDB (SW-846 8260B)	X	TPH-GRO C6-C10 (SW-846 8015B)		PAHs by SIM (SW-846 8270C SIM)		HEM Oil and Grease (EPA 1664A)		Turbidity (SM 2130B)		Alkalinity (SM 2320B)	X	Nitrate NO ₃ -1 (EPA 353.2)	X	Ferrous Iron Fe ²⁺ (SM 3500-Fe B modified-1997)	X	Sulfate SO ₄ ²⁻ (EPA 300.0)	X	Manganese Mn ²⁺ (EPA 6010B)	X	Methane (RKSOP-175 modified)	X	Total Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver) (EPA 6010)		Cyanide, Total (EPA 335)		Mercury, Total (EPA 7470)		Remarks				
MW-109				1245						2																																			
MW-110S				1230						2																																			
MW-110				1215						2																																			
MW-111				1145						2																																			
MW-112S				1330						11														X	X	X	X	X	X	X															
MW-112				1200						2																																			
MW-113				1130						2																																			
MW-114				1300						11	X													X	X	X	X	X	X	X															
RW-1				1445						2	X													X	X	X	X	X	X																
MW-11				1500						2	X																																		
TB5-51215			5-12-15					X		14	X	X											X	X	X	X	X	X	X																
										2	X	X																																	
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)						Relinquished by: Jeff Plummer						Date: 5-13-15		Time: 0730		Received by: Denise Wadsworth						Date: 5-13-15		Time: 0800																					
Date results are needed:						Relinquished by: Denise Wadsworth						Date: 5-13-15		Time: 1140		Received by: Ken						Date: 5/13/15		Time: 1100																					
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>						Relinquished by: Ken						Date: 5/13/15		Time: 17:00		Received by: Pat S						Date: 5/13/15		Time: 1730																					
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com						Relinquished by:						Date:		Time:		Received by:						Date:																							

Eurolins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0614

Client: GES

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>05/13/2015 17:30</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>VA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCI
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:54 on 05/13/2015

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT121	0.6	DT	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

May 25, 2015

Project: NRG PRGS

Submittal Date: 05/13/2015

Group Number: 1560948

PO Number: NRG PRGS

Release Number: 0402915

State of Sample Origin: VA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-102 Grab Groundwater	7886653
MW-103 Grab Groundwater	7886654
TW-14 Grab Groundwater	7886655
MW-104 Grab Groundwater	7886656
MW-105 Grab Groundwater	7886657
MW-100S Grab Groundwater	7886658
MW-100 Grab Groundwater	7886659
TB1-51215 Water	7886660
MW-08S Grab Groundwater	7886661

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

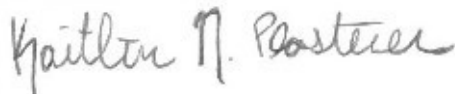
Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC GES
COPY TO
ELECTRONIC GES, Inc.-MD
COPY TO

Attn: Greg Reichart

Attn: Data Distribution

Respectfully Submitted,



Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: MW-102 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886653
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 09:40 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR102

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 10:43	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-103 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886654
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:50 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR103

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.013 J	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.031 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.031 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.059	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.031 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.022 J	0.010	1
08357	Chrysene	218-01-9	0.042 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.055	0.010	1
08357	Fluorene	86-73-7	0.019 J	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.029 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.032 J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.028 J	0.010	1
08357	Naphthalene	91-20-3	N.D.	0.031	1
08357	Phenanthrene	85-01-8	0.042 J	0.031	1
08357	Pyrene	129-00-0	0.047 J	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	22 J	20	1
GC Petroleum SW-846 8015B ug/l					
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	128	0.56	4

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-103 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886654
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:50 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR103

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 13:20	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 13:20	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/18/2015 23:48	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138A20A	05/18/2015 11:46	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A20A	05/18/2015 11:46	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 11:06	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15143807901A	05/23/2015 09:15	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121451B	05/13/2015 20:20	Luz M Groff	4

Sample Description: TW-14 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886655
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:30 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

TW-14

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	1	0.5	1
10945	t-Butyl alcohol	75-65-0	7	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	220	20	1
GC Petroleum SW-846 8015B ug/l					
Hydrocarbons					
12858	DRO C10-C28	n.a.	2,000	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 13:42	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 13:42	Brett W Kenyon	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138A20A	05/18/2015 12:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A20A	05/18/2015 12:13	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 11:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-104 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886656
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:05 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR104

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	N.D.	0.010	1
08357	Acenaphthylene	208-96-8	N.D.	0.010	1
08357	Anthracene	120-12-7	N.D.	0.010	1
08357	Benzo(a)anthracene	56-55-3	0.017 J	0.010	1
08357	Benzo(a)pyrene	50-32-8	0.015 J	0.010	1
08357	Benzo(b)fluoranthene	205-99-2	0.024 J	0.010	1
08357	Benzo(g,h,i)perylene	191-24-2	0.015 J	0.010	1
08357	Benzo(k)fluoranthene	207-08-9	0.011 J	0.010	1
08357	Chrysene	218-01-9	0.018 J	0.010	1
08357	Dibenz(a,h)anthracene	53-70-3	N.D.	0.010	1
08357	Fluoranthene	206-44-0	0.026 J	0.010	1
08357	Fluorene	86-73-7	N.D.	0.010	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.015 J	0.010	1
08357	1-Methylnaphthalene	90-12-0	0.022 J	0.010	1
08357	2-Methylnaphthalene	91-57-6	0.046 J	0.010	1
08357	Naphthalene	91-20-3	0.043 J	0.030	1
08357	Phenanthrene	85-01-8	N.D.	0.030	1
08357	Pyrene	129-00-0	0.024 J	0.010	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum SW-846 8015B ug/l					
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	750	2.8	20

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-104 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886656
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 11:05 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR104

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 14:04	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 14:04	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/19/2015 00:16	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138A20A	05/18/2015 12:41	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A20A	05/18/2015 12:41	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 11:52	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121451B	05/13/2015 20:20	Luz M Groff	20

Sample Description: MW-105 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886657
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 10:45 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR105

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270C SIM ug/l					
08357	Acenaphthene	83-32-9	0.023 J	0.012	1
08357	Acenaphthylene	208-96-8	N.D.	0.012	1
08357	Anthracene	120-12-7	0.023 J	0.012	1
08357	Benzo(a)anthracene	56-55-3	0.14	0.012	1
08357	Benzo(a)pyrene	50-32-8	0.17	0.012	1
08357	Benzo(b)fluoranthene	205-99-2	0.27	0.012	1
08357	Benzo(g,h,i)perylene	191-24-2	0.16	0.012	1
08357	Benzo(k)fluoranthene	207-08-9	0.10	0.012	1
08357	Chrysene	218-01-9	0.20	0.012	1
08357	Dibenz(a,h)anthracene	53-70-3	0.051 J	0.012	1
08357	Fluoranthene	206-44-0	0.31	0.012	1
08357	Fluorene	86-73-7	0.024 J	0.012	1
08357	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.012	1
08357	1-Methylnaphthalene	90-12-0	0.043 J	0.012	1
08357	2-Methylnaphthalene	91-57-6	0.059 J	0.012	1
08357	Naphthalene	91-20-3	0.059 J	0.036	1
08357	Phenanthrene	85-01-8	0.21	0.036	1
08357	Pyrene	129-00-0	0.25	0.012	1
GC Volatiles SW-846 8015B modified ug/l					
01635	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum SW-846 8015B ug/l					
12858	DRO C10-C28	n.a.	N.D.	45	1
Wet Chemistry EPA 1664A mg/l					
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1
SM 2130 B-2001 N T U					
12145	Turbidity	n.a.	19,300	70.0	500

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: MW-105 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886657
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 10:45 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR105

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 14:26	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 14:26	Brett W Kenyon	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	15135WAD026	05/19/2015 00:44	Catherine E Bachman	1
10470	BNA Water Extraction (SIM)	SW-846 3510C	1	15135WAD026	05/15/2015 16:50	Kailah L Ortiz	1
01635	TPH-GRO water C6-C10	SW-846 8015B modified	1	15138A20A	05/18/2015 13:08	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15138A20A	05/18/2015 13:08	Marie D Beamenderfer	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 12:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1
08079	HEM (oil & grease)	EPA 1664A	1	15144807901A	05/24/2015 05:12	Yolunder Y Bunch	1
12145	Turbidity	SM 2130 B-2001	1	15133121451B	05/13/2015 20:20	Luz M Groff	500

Sample Description: MW-100S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886658
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:20 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

N100S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 12:49	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: MW-100 Grab Groundwater
NRG - PRGS

LL Sample # WW 7886659
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 13:30 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR100

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
	GC Petroleum Hydrocarbons	SW-846 8015B	ug/l	ug/l	
12858	DRO C10-C28	n.a.	N.D.	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 13:13	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Sample Description: TB1-51215 Water
NRG - PRGS

LL Sample # WW 7886660
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 09:10

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NRTB1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Naphthalene	91-20-3	N.D.	1	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX, MTBE, TBA, EDB, EDC, Nap h	SW-846 8260B	1	F151402AA	05/20/2015 11:53	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F151402AA	05/20/2015 11:53	Brett W Kenyon	1

Sample Description: MW-08S Grab Groundwater
NRG - PRGS

LL Sample # WW 7886661
LL Group # 1560948
Account # 08390

Project Name: NRG PRGS

Collected: 05/12/2015 14:40 by LK

GES, Inc.

Submitted: 05/13/2015 17:30

Suite A

Reported: 05/25/2015 19:18

1350 Blair Dr

Odenton MD 21113

NR08S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	SW-846 8015B		ug/l	ug/l	
12858 DRO C10-C28		n.a.	27,000	45	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	151360026A	05/19/2015 13:36	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	151360026A	05/18/2015 14:00	Wanda F Oswald	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/25/2015 19:18

Group Number: 1560948

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F151402AA	Sample number(s): 7886654-7886657,7886660							
Benzene	N.D.	0.5	ug/l	91	92	78-120	1	30
t-Butyl alcohol	N.D.	2.	ug/l	102	99	78-121	3	30
1,2-Dibromoethane	N.D.	0.5	ug/l	94	93	80-120	0	30
1,2-Dichloroethane	N.D.	0.5	ug/l	89	92	72-127	4	30
Ethylbenzene	N.D.	0.5	ug/l	90	90	80-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86	85	75-120	1	30
Naphthalene	N.D.	1.	ug/l	92	90	59-120	3	30
Toluene	N.D.	0.5	ug/l	92	92	80-120	0	30
Xylene (Total)	N.D.	0.5	ug/l	90	90	80-120	0	30
Batch number: 15135WAD026	Sample number(s): 7886654,7886656-7886657							
Acenaphthene	N.D.	0.010	ug/l	78	102	76-139	26	30
Acenaphthylene	N.D.	0.010	ug/l	73	81	67-120	11	30
Anthracene	N.D.	0.010	ug/l	84	93	72-128	9	30
Benzo(a)anthracene	N.D.	0.010	ug/l	84	91	71-127	8	30
Benzo(a)pyrene	N.D.	0.010	ug/l	77	82	64-132	7	30
Benzo(b)fluoranthene	N.D.	0.010	ug/l	85	93	71-139	9	30
Benzo(g,h,i)perylene	N.D.	0.010	ug/l	83	89	49-140	7	30
Benzo(k)fluoranthene	N.D.	0.010	ug/l	78	86	63-136	10	30
Chrysene	N.D.	0.010	ug/l	79	87	72-132	9	30
Dibenz(a,h)anthracene	N.D.	0.010	ug/l	85	91	37-142	7	30
Fluoranthene	N.D.	0.010	ug/l	86	89	76-121	4	30
Fluorene	N.D.	0.010	ug/l	80	89	71-124	10	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	ug/l	83	90	45-136	8	30
1-Methylnaphthalene	N.D.	0.010	ug/l	84	93	65-122	11	30
2-Methylnaphthalene	N.D.	0.010	ug/l	83	93	59-124	11	30
Naphthalene	N.D.	0.030	ug/l	76	93	69-119	20	30
Phenanthrene	N.D.	0.030	ug/l	78	87	75-121	11	30
Pyrene	N.D.	0.010	ug/l	77	81	70-124	4	30
Batch number: 15138A20A	Sample number(s): 7886654-7886657							
TPH-GRO water C6-C10	N.D.	20.	ug/l	92		80-129		
Batch number: 151360026A	Sample number(s): 7886653-7886659,7886661							
DRO C10-C28	N.D.	45.	ug/l	80	82	69-115	3	20
Batch number: 15133121451B	Sample number(s): 7886654,7886656-7886657							
Turbidity	N.D.	0.14	N T U	97		90-110		
Batch number: 15143807901A	Sample number(s): 7886654							
HEM (oil & grease)	N.D.	1.4	mg/l	99	93	78-114	7	11
Batch number: 15144807901A	Sample number(s): 7886656-7886657							

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.

Group Number: 1560948

Reported: 05/25/2015 19:18

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
HEM (oil & grease)	1.4 J	1.4	mg/l	95	94	78-114	0	11

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15138A20A TPH-GRO water C6-C10	Sample number(s): 7886654-7886657 UNSPK: P888193								
	103	116	75-135	5	30				
Batch number: 15133121451B Turbidity	Sample number(s): 7886654,7886656-7886657 BKG: P885360								
						26.2	25.4	3	8
Batch number: 15143807901A HEM (oil & grease)	Sample number(s): 7886654 UNSPK: P898400 BKG: P898400								
	46*	65*	78-114	36*	29	N.D.	N.D.	0 (1)	18
Batch number: 15144807901A HEM (oil & grease)	Sample number(s): 7886656-7886657 UNSPK: P888659								
	118*		78-114						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX, MTBE, TBA, EDB, EDC, Naph
Batch number: F151402AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7886654	98	105	98	90
7886655	98	100	97	90
7886656	97	103	98	92
7886657	98	101	98	90
7886660	97	99	98	90
Blank	97	101	98	90
LCS	95	99	97	93
LCSD	97	99	99	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PAHs in waters by SIM
Batch number: 15135WAD026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
7886654	96	65	84
7886656	91	44	83
7886657	64	25*	80
Blank	94	90	80
LCS	92	91	77
LCSD	102	96	87

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/25/2015 19:18

Group Number: 1560948

Surrogate Quality Control

Limits: 56-134 26-158

52-127

Analysis Name: TPH-GRO water C6-C10
Batch number: 15138A20A
Trifluorotoluene-F

7886654	116
7886655	115
7886656	118
7886657	118
Blank	116
LCS	128
MS	134
MSD	135

Limits: 63-135

Analysis Name: DRO micro-ext 8015B
Batch number: 151360026A
Orthoterphenyl

7886653	95
7886654	106
7886655	89
7886656	103
7886657	90
7886658	104
7886659	70
7886661	105
Blank	108
LCS	106
LCSD	103

Limits: 42-160

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Acct. # 8390 Group # 1560948 Sample # 7886653-61

[illegible]

Client: GES

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>05/13/2015 17:30</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>VA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	3
Paperwork Enclosed:	Yes	Trip Blank Type:	HCI
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:47 on 05/13/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.3	DT	Wet	Y	Loose	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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4.0 CONCLUSIONS

GES has completed this 2nd Quarter 2015 CMR for the Potomac River Generating Station, located at 1400 North Royal Street, Alexandria, Virginia. The following is a summary of pertinent findings from the 2nd Quarter 2015 monitoring conducted at the site:

- LNAPL was observed in six of the monitoring wells (MW-01S, MW-05, MW-10S, MW-25, MW-25S, and MW-51);
- Groundwater flow and gradient is consistent with historical observations;
- Seventeen new wells were installed at the site, and will be further discussed in the 3rd Quarter 2015 CMR; and
- Additional site activities will take place during the 3rd Quarter of 2015, including weekly gauging and bailing of product, biweekly HIT events, CAP implementation permitting and coordinating, electrical power drop coordination and procurement, and system installation activities.