QUARTERLY MONITORING REPORT
QUARTER 3, 2016

G & G OIL CO. BULK FUEL FACILITY
220 EAST CENTENNIAL AVENUE
MUNCIE, INDIANA
VRP NO. 6060101

Submitted to:
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Date Completed: 12/6/2016

EXECUTIVE SUMMARY

The facility is known as the Bulk Fuel Facility located at 220 East Centennial Avenue, Muncie, Indiana 47303 (referred to in this document as 'Site'). G & G Oil Company owns and operates the Site. G & G Oil Co. of Indiana, Inc. has grown to become one of the Midwest's largest compounder/blenders and distributors of petroleum products, metalworking fluids, process chemicals and cleaners. The Site maintains G & G Oil Company's petroleum wholesale and packaged products.

The scope of work for the quarterly monitoring involved the collection of groundwater samples, stability monitoring and water level measurements.

Benzene was detected above the RISC Industrial Default Closure Level (IDCL) in monitoring wells MW-12 and MW-26. Benzene was detected at a maximum of 1,450 ug/L in MW-12. Benzene was also detected in MW-9 at a concentration below the IDCL of 52 ug/L.

MTBE and Naphthalene were also detected at levels exceeding the residential default closure levels (RDCLs). MTBE did not exceed the IDCL of 720 ug/L this quarter, but exceeded the RDCL in MW-1, MW-4, MW-6 and MW-11. Naphthalene did not exceed the IDCL of 2,000 ug/L, but exceeded the RDCL in MW-12 this quarter.

The Conceptual Site Model (CSM) is complete. The potential for exposure via vapor intrusion has been evaluated. Exposure via soil direct contact is limited as site access is restricted to authorized personnel only. The analytical results indicate significant impacts to the shallow groundwater. The impacted groundwater is located at shallow depths and separated from the potable water by an extensive and thick clay. The potential petroleum contaminants (PPCs) in the shallow groundwater are benzene, MTBE and naphthalene. Only benzene exceeded the IDCL this quarter. The deeper groundwater has not been impacted. The contaminants are vertically restricted to the shallow saturated soil horizon. The soil impacted areas generally coincide with the groundwater impacted areas.

The remediation system began operation on July 18, 2016. The system collected 325 gallons of product during this quarter. Maximum daily production was 10 gallons per day. Cumulative water production was 79,531 gallons.

Light non-aqueous phase liquid (LNAPL) product has been encountered in MW-1, MW-4 and MW-7, as well as in MW-3R. The product was measured at less than 1/16th of an inch in MW-4, MW-7, and MW-3R. MW-1 measured at 8 inches (0.75 feet) of product.

Terra recommends continued operation of the remediation system and quarterly monitoring of the shallow wells at the Site and annual monitoring of the wells monitoring the deeper aquifer unit.

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ACRONYMS USED IN THIS DOCUMENT

Terra Environmental Corporation seeks to use terminology that is conventional in environmental remediation science, and understandable to the reader. Recognizing that many acronyms have become standard in the environmental field, we have listed several terms that will be used throughout this document for the sake of clarity and readability.

Companies

DNR Department of Natural Resources
EPA Environmental Protection Agency
IDEM Indiana Department of Environmental Management
Pace Pace Analytical Services, Inc.
Terra Terra Environmental Corporation

Groundwater Monitoring

DO Dissolved Oxygen
GW Groundwater
MW Monitoring Well
ORP Oxidation-Reduction Potential (a.k.a. Redox Potential)
TDS Total Dissolved Solids

Contaminants

BTEX Benzene, Toluene, Ethlybenzene, (Total) Xylenes
COCs Chemicals/Contaminants of Concern
CPAHs Carcinogenic Polynuclear Aromatic Hydrocarbons
LNAPL Light Non-Aqueous Phase Liquid
MTBE Methyl tert-butyl ether
PPC Potential Petroleum Contaminants
TPH Total Petroleum Hydrocarbons
  ERO High End Organics
  GRO Gasoline Range Organics

Miscellaneous

AST Aboveground Storage Tank
CSM Conceptual Site Model
DQO Data Quality Objectives
(L)UST (Leaking) Underground Storage Tank
MDDR Minimum Data Documentation Requirements
QA/QC Quality Assurance/Quality Control
RISC Risk Integrated System of Closure
  IDCL Industrial Default Closure Level
  RDCL Residential Default Closure Level
VI Vapor Intrusion
VRP Voluntary Remediation Program

Measurements

mg/kg Milligrams per Kilogram
mg/L Milligrams per Liter
ug/L Micrograms per Liter

QUARTERLY MONITORING REPORT

QUARTER 3, 2016

Bulk Fuel Facility

G & G Oil Company

220 East Centennial Avenue

Muncie, Indiana

Terra Project No. 04-006

VRP No. 6060101

1. INTRODUCTION

The facility is known as the Bulk Fuel Facility located at 220 East Centennial Avenue, Muncie, Indiana 47303 (referred to in this document as 'Site'). G & G Oil Company owns and operates the Site. G & G Oil Co. of Indiana, Inc. has grown to become one of the Midwest's largest compounder/blenders and distributors of petroleum products, metalworking fluids, process chemicals and cleaners. The Site maintains G & G Oil Company's petroleum wholesale and packaged products. Figure 1 (Appendix B) is a site vicinity map showing the location of the Site on the USGS Muncie West Quadrangle.

The owner's address is 220 East Centennial Avenue, Muncie Indiana 47303, phone number 800-382-8533. G & G Oil Company has owned the Bulk Fuel Facility property for over 30 years. Mr. Shane Neal with G & G Oil Company is the Site contact person; his phone number is 765-288-7795.

Terra Environmental Corporation (Terra) performed quarterly monitoring of the groundwater at the Site on September 13, 2016. Mr. Jason Stephens is the contact person with Terra responsible for the quarterly monitoring at the site. Terra's phone number is 317-858-1858.

This quarterly progress report was developed to document the monitoring and remediation progress at the Site, and to satisfy the corrective action progress reporting requirements.

A. Site Background (Remediation Process)

In 1987 a fire and the associated response action produced a surface release of an unknown volume of motor oil and other petroleum products utilized at the Site. In August 1998 during the removal of underground storage tanks (USTs), a petroleum release was discovered. The release was reported to IDEM and assigned incident number 199808514. In 2001, the LUST branch referred the matter to the State Cleanup Section to address the release at the Site. In 2006 the Site was entered into the Voluntary Remediation Program and assigned VRP No. 6060101.

The petroleum releases are associated with the UST and AST storage, packaging and transport of various bulk fuels and lubricants at the Site. The historical releases and a fire in 1987 have impacted the soil and shallow groundwater at the Site. The

remediation system at the Site started operating July 18, 2016. The Remedial Work Plan was approved October 21, 2010.

Benzene concentrations exceed the RISC industrial default closure levels (IDCLs) in the subsurface soil. Benzo(a)pyrene and Dibenzo(a,h)anthracene also exceed the IDCLs in the soil. The soil contamination is fairly shallow due to a high water table. The shallow soils consist of silty clay sediments.

Benzene and Methyl-tert-butyl ether (MTBE) are the COCs that have historically exceeded the RISC IDCLs for the groundwater in the shallow aquifer. Naphthalene is also present in the groundwater at concentrations below the RISC IDCLs. Light non-aqueous phase liquid (LNAPL) product is observed in MW-1, MW-3R, MW-4, and MW-7.

B. Regulatory Cleanup Guidance

IDEM – 2001 Risk Integrated System of Closure (RISC), Updated 2009.

2. SITE DESCRIPTION

A. Conceptual Site Model

The conceptual site model (CSM) describes the characteristics of the Site and the processes by which potential contaminants may move from source(s) to receptor(s).

1. Chemicals of Concern

The Potential Petroleum Contaminants (PPCs) have been identified by the Indiana Department of Environmental Management (IDEM). Benzene and MTBE are the only PPCs historically with exceedances of the IDEM RISC Industrial Default Closure Level (IDCL) in the groundwater.

2. Source of Contaminants

The contaminant sources include underground and aboveground (UST and AST) petroleum storage, packaging and transportation equipment used for various bulk fuels and lubricants at the Site. A 1987 fire and the associated response action also contributed to a surface release of an unknown volume of motor oil and other petroleum products utilized at the Site.

3. Contaminant Migration Pathways

The contaminant migration pathways can include both natural and artificial pathways. The natural migration pathways observed in soil cores are saturated permeable silty clays and silty sands ranging in thickness from 1 to 6 feet. The artificial migration pathways are utility corridors, product line channels and other shallow earth disturbances that have been loosened or filled with more permeable materials.

4. Receptor Identification

The risks for exposure include vapor intrusion (VI), groundwater use and soil direct contact. The risk for VI exposure was limited to the facilities located on the Site. VI sampling was performed at the Site to evaluate indoor air quality and sub slab conditions and levels were found to be acceptable. The potential for exposure via vapor intrusion will be further evaluated during the winter heating season as requested by IDEM and according to the approved work plan.

Benzene concentrations exceed the RISC IDCLs in the subsurface soil. Benzo(a)pyrene and Dibenzo(a,h)anthracene also exceed the IDCLs in the soil. The soil contamination is fairly shallow due to a high water table. The shallow soils consist of silty clay sediments. Benzene was encountered above the IDCL in the surface soil. Direct contact via surface soil is therefore a risk for exposure, however the Site is restricted to authorized personnel only.

Ingestion of the impacted groundwater is not a risk. The vertical extent of the risk for exposure has been defined and is limited to shallow groundwater that is vertically separated from the potable water resource in the area. A deeper hydrologic unit identified as the White River and Tributaries Outwash Aquifer Subsystem exists below the Site consisting of a buried sand and gravel. This unit has not been impacted and does not produce water in volumes to support potable use. DNR water well logs indicate that all but two of the potable water wells in the area are completed in the bedrock aquifer which is approximately 50 to 80 feet below the Site and has not been impacted by releases at the Site. The horizontal contaminant plume extent has been defined and is limited to the Site.

5. System Boundary Delineation

The horizontal and vertical extents of the risk for exposure have been defined. Off-site monitoring wells to the north and west and perimeter wells to the south and east have consistently shown contaminants below commercial/industrial default cleanup levels (IDCLs). A network of deeper monitoring wells in the White River and Tributaries Outwash Aquifer Subsystem is monitored annually during the 2nd quarter to assess vertical impacts and have consistently reported non-detect results for PPCs at the Site.

6. Project Purpose

The purpose of this project was to assess the current site conditions by determining the concentrations of Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), MTBE and Naphthalene in the groundwater. In order to assess the current site conditions, groundwater samples were obtained from the monitoring well network. Figure 2 is a site map that identifies the locations of monitoring wells at the Site. Groundwater samples were collected from shallow monitoring wells MW-1, MW-2, MW-4, MW-6, MW-7, MW-9, MW-10R, MW-11, MW-12, MW16, MW-20, MW-23, MW-26, MW-28 and MW-29 this quarter.

3. FIELD INVESTIGATIONS

A. Scope

The scope of work for the quarterly monitoring involved the collection of groundwater samples, stability monitoring and water level measurements. A trip blank and duplicate sample were collected for quality assurance/quality control (QA/QC). The following sections describe the sampling methodology and analytical results.

B. Groundwater Sampling

The monitoring wells are purged of at least 3 casing volumes, or until stabilization criteria have been met. The stabilization parameters pH, Temperature, Specific Conductivity, Oxidation/Reduction Potential (ORP) and Dissolved Oxygen (DO) were measured to ensure a representative sample. Appendix D contains details of the measurement of these parameters. The water samples were analyzed for BTEX, MTBE and Naphthalene using EPA method 8260.

C. Water Level Measurements

Water level measurements were obtained from each well using a Water Level Meter which has an accuracy of 0.01 feet. Water level measurements were taken prior to any purging or sampling activity.

D. Analytical Data

Pace Analytical Services Inc. (Pace) performed the analytical testing of the groundwater samples. Pace is located at 7726 Moller Road, Indianapolis IN 46268, phone number 317-228-3100.

4. RESULTS

A. Groundwater Elevations and Gradient

The groundwater level measurements were collected and analyzed to produce a contour map of the groundwater flow. The potentiometric surface of the groundwater in the shallow unit is contoured in Figure 4 (Appendix B). The groundwater gradient is approximately 0.021 feet per foot. The groundwater elevation measurements are detailed in Table 1 (Appendix A). The groundwater is located at a very shallow depth, ranging from 2.15 feet to 8.19 feet below well casing surface during the 3rd quarter. Groundwater flow in the shallow aquifer trends to the northeast and southeast.

Groundwater level measurements from the White River and Tributaries Outwash Aquifer Subsystem unit are collected annually during the 2nd quarter. The groundwater gradient in the aquifer unit is approximately 0.002 feet per foot. The groundwater in this unit measures at depths ranging from 23 feet to 28 feet below casing surface. Groundwater in the deep aquifer flows to the west.

B. Groundwater Analytical Results (Shallow Hydrologic Unit)

The analytical results for the 3rd quarter of 2016 are detailed in Table 1. Historical results are detailed in Table 2. The laboratory analytical report and supporting documentation is included in Appendix C. Pace performed the analysis of the groundwater samples.

Benzene was detected above the RISC Industrial Default Closure Level (IDCL) in monitoring wells MW-12 and MW-26. Benzene was detected at a maximum of 1,450 ug/L in MW-12. Benzene was also detected in MW-9 below the IDCL of 52 ug/L. Figure 5 (Appendix B) details the distribution of benzene in the groundwater. Charts 1 and 2 (Appendix A) show the historical benzene concentrations and trends in MW-11 and MW-12 respectively.

Toluene, Ethylbenzene, Xylene were detected at the Site this quarter but did not have exceedances. MTBE and Naphthalene were also detected in samples collected from the Site this quarter exceeding the RDCLs but below the IDCLs. MTBE exceeded the RDCL in MW-1, MW-4, MW-6 and MW-7 while Naphthalene exceeded the RDCL in MW-12. Figures 6 and 7 detail the distribution of MTBE and Naphthalene in the shallow groundwater at the Site for the 3rd quarter of 2016.

The QA/QC samples did not indicate cross contamination from the field equipment. The trip blank did not indicate contamination during storage and transport to the laboratory.

C. Groundwater Analytical Results (White River and Tributaries Outwash Aquifer Subsystem)

The deep wells were not sampled this quarter. Historical analytical results are included in Table 2. In the deeper hydrologic unit, PPCs have not been detected above the IDCLs historically for any sampling event.

5. REMEDIATION EFFECTIVENESS AND GROUNDWATER ANALYTICAL TRENDS

The remediation system began operation on July 18, 2016. The remediation system includes six (6) groundwater recovery wells. The wells are equipped with top loading pneumatic pumps to collected free product and control groundwater transport. The system collected 325 gallons of product during this quarter. Maximum daily product production was 10 gallons per day. Cumulative water production was 79,531 gallons. The product is separated in an oil water separator, the water is treated with air stripping and carbon adsorption before being discharged to the sanitary sewer. The discharge is sampled monthly.

Light non-aqueous phase liquid (LNAPL) product has been encountered in MW-1, MW-4 and MW-7, as well as in MW-3R. The product was measured at less than 1/16th of an inch in MW-4, MW-7, and MW-3R. MW-1 measured at 8 inches (0.75 feet) of product.

A. Summary of Operation and Maintenance

The pump and treatment system began operation on July 18, 2016. The system collected product within a few days and the high level float switch for the product tank (8-gallon tank) caused system shut down. The tank was emptied and the system restarted and it was apparent that the product production was greater than the tank capacity. On July 31, 2016 the product tank was expanded to include a 275-gallon tote. Certain pumps RW-2 and RW-5 required maintenance this quarter and the carbon was changed out on September 3, 2016.

6. CONCLUSIONS

The CSM is complete. The potential for exposure via vapor intrusion will be further evaluated during the winter heating season as requested by IDEM and according to the approved work plan. The ingestion exposure pathway has been evaluated and does not exist. Exposure via soil direct contact is limited as site access is restricted to authorized personnel only. The analytical results indicate significant impacts to the shallow groundwater. The PPCs in the shallow groundwater are Benzene, MTBE and Naphthalene.

The deeper groundwater has not been impacted. The contaminants are vertically restricted to the shallow saturated soil horizon. The soil impacted areas generally coincide with the groundwater impacted areas.

Light non-aqueous phase liquid (LNAPL) product has been encountered in MW-1, MW-4 and MW-7, as well as in MW-3R. The product was measured at less than 1/16th of an inch in MW-4, MW-7, and MW-3R. MW-1 measured at 8 inches (0.75 feet) of product.

7. RECOMMENDATIONS

Terra recommends continued operation of the remediation system, quarterly monitoring of the shallow wells at the Site and annual monitoring of the wells monitoring the aquifer unit.

8. QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and geology. This warranty is in lieu of all other warranties either expressed or implied. This corporation is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and information research presented in this report. In addition, this report is intended for the sole use of Shane Neal and G & G Oil Company. Any use or re-use of this document or the findings, conclusions, or recommendations presented herein are at the sole risk of said user.

Groundwater conditions were field investigated on a limited basis as part of this study and other areas may differ from the conditions implied by the observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties.

It must be noted that no investigation can absolutely rule out the existence of any hazardous materials at the given site. This groundwater quarterly monitoring report has been based upon prior site history, observable conditions and activities and limited subsurface investigation and analytical testing. Hazardous materials and contaminants can escape detection using these methods. It is Terra*'s* professional opinion that this study was appropriate for a quarterly groundwater monitoring program and that further action is needed.

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APPENDIX A: TABLES AND CHARTS

TABLE 1: Groundwater Analytical Results and Elevation Data

TABLE 2: Historical Groundwater Analytical Data by Well

CHART 1: Historical Benzene Concentrations in MW-11

CHART 2: Historical Benzene Concentrations in MW-12

CHART 3: Remediation System Cumulative Pumping Volume

CHART 4: Remediation System Production Rate

Table 1: Groundwater Analytical Results and Elevation Data

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample ID	Parameter						Water/Product/Casing Levels			
		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	Casing Elevaton	Depth to Groundwater	Groundwater Elevation	Product Thickness
Method		EPA 8260 (Volatiles)									
Units		ug/L						Feet			
RISC IDCL		52	20,000	10,000	20,000	720	2,000	* Product in well			
RISC RDCL		5	1,000	700	10,000	40	8.3				
3rd Quarter Sampling Event: 9/13/16											
Shallow Wells											
MW-1*	MW1-GW091316-T	<5	<5	<5	<10	79.0	<5	99.32	5.35*	97.23	0.75
MW-2	MW2-GW091316-T	<5	<5	<5	<10	<4	<5	98.86	2.49	96.37	-
MW-3*	MW3-GW091316-T	Not Sampled						99.34	*		<0.1
MW-4*	MW4-GW091316-T	<5	<5	<5	<10	588	<5	99.08	4.95*	97.33	<0.1
MW-6	MW6-GW091316-T	<5	<5	<5	<10	147	<5	100.00	2.15	97.85	-
MW-7*	MW7-GW091316-T	<5	<5	<5	<10	9.7	7.1	98.43	3.28*	96.78	<0.1
MW-9	MW9-GW091316-T	31.4	<5	<5	<10	<4	<5	102.05	6.17	95.88	-
MW-10R	MW10R-GW091316-T	<5	<5	<5	<10	13.8	<5	101.91	8.19	93.72	-
MW-11	MW11-GW091316-T	<5	<5	<5	<10	73.3	<5	102.58	7.23	95.35	-
MW-12	MW12-GW091316-T	1,350	12.6	12.4	78.8	<4	51.5	100.79	4.89	95.90	-
	MW12D-GW091316-T	1,450	12.8	13.4	83.6	<4	56.1				
MW-16	MW16-GW091316-T	<5	<5	<5	<10	<4	<5	99.35	2.82	96.53	-
MW-20	MW20-GW091316-T	<5	<5	<5	<10	<4	<5	100.20	2.21	97.99	-
MW-23	MW23-GW091316-T	<5	<5	<5	<10	<4	<5	100.86	3.23	97.63	-
MW-26	MW26-GW091316-T	94.6	<5	<5	<10	<4	<5	103.99	4.93	99.06	-
MW-28	MW28-GW091316-T	<5	<5	<5	<10	<4	<5	98.70	3.86	94.84	-
MW-29	MW29-GW091316-T	<5	<5	<5	<10	<4	<5	103.63	5.75	97.88	-

Screening Levels: IDEM 2001 RISC Guidance, 2009 Update

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
SHALLOW WELLS									
Monitoring Well MW-1									
MW-1	08/26/05	<5	<5	<5	<10	380	2.3		
MW-1	09/25/06	<5	<5	<5	<10	190	<20		
MW-1	03/21/07	17.1	<5	<5	<10	237	<20		
MW-1	06/28/07	<5	<5	<5	<10	332	<20	45,500	390
MW-1	09/21/07	<5	<5	<5	<10	332	<45	431,000	1,400
MW-1	11/30/07	<5	<5	<5	<10	389	<10.1	95,676	1,100
MW-1	03/21/08	<5	<5	<5	<10	256	<124	268,000	1,400
	Duplicate	<5	<5	<5	<10	269	<1	456,000	700
MW-1	06/24/08	<5	<5	<5	<10	269	<1	42,700	2,200
MW-1	09/19/08	<5	<5	<5	<10	279	NS	166,000	7,400
MW-1	03/12/09	<5	<5	<5	<10	167	<5	115,000	510
MW-1	05/26/09	<5	<5	<5	<10	225	<50	204,000	920
MW-1	08/24/09	<5	<5	<5	<10	216	<5	32,100	370
MW-1	11/24/09	<5	<5	<5	<10	258	<5	92,100	830
MW-1	03/01/10	<5	<5	<5	<10	305	<5	38,500	290
MW-1	06/10/10	<5	<5	<5	<10	270	<5	10,100	420
MW-1	09/13/10	<5	<5	<5	<10	245	<5		
MW-1 *	03/16/11	<5	<5	<5	<10	320	<5		
MW-1 *	06/15/11	<5	<5	<5	<10	266	<5		
MW-1 *	09/29/11	<5	<5	<5	<10	207	<5		
MW-1 *	12/12/11	<5	<5	<5	<10	237	<5		
MW-1 *	03/30/12	<5	<5	<5	<10	215	<5		
MW-1 *	06/27/12	<5	<5	<5	<10	227	<5		
MW-1 *	09/25/12	<5	<5	<5	<10	229	<5		
MW-1 *	12/05/12	<50	<50	<50	<100	237	<50		
MW-1 *	03/19/13	<5	<5	<5	<10	203	<5		
MW-1 *	06/11/13	<5	<5	<5	<10	241	<5		
MW-1 *	08/28/13	<5	<5	<5	<10	172	<5		
MW-1 *	03/24/14	<5	<5	<5	<10	109	<5		
MW-1 *	06/25/14	<5	<5	<5	<10	117	<1.4		
MW-1 *	09/30/14	<5	<5	<5	<10	145	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-1 *	12/03/14	<5	<5	<5	<10	594	6.7		
MW-1 *	03/24/15	<5	<5	<5	<10	198	<5		
MW-1 *	06/05/15	<5	<5	<5	<10	149	<5		
MW-1 *	09/02/15	<5	<5	<5	<10	159	<5		
MW-1 *	12/08/15	<5	<5	<5	<10	133	<5		
MW-1 *	03/21/16	336	<5	<5	<10	33.5	<5		
MW-1 *	06/27/16	<5	<5	<5	<10	43.6	<5		
MW-1 *	09/13/16	<5	<5	<5	<10	79.0	<5		
Monitoring Well MW-2									
MW-2	05/06/04	<5	<5	<5	<5	<5	<1		
MW-2	08/26/05	<5	<5	<5	<10	<5	<1		
MW-2	09/25/06	<5	<5	<5	<10	<5	<1		
MW-2	03/21/07	<5	<5	<5	<10	<4	<1		
MW-2	06/28/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-2	09/21/07	<5	<5	<5	<10	<4	<1	240	<200
MW-2	11/30/07	<5	<5	<5	<10	<4	<1	350	<200
MW-2	03/21/08	<5	<5	<5	<10	<4	<1	150	<200
MW-2	06/24/08	<5	<5	<5	<10	<4	<1	290	<200
MW-2	03/11/09	<5	<5	<5	<10	<4	<5	350	<200
MW-2	05/26/09	<5	<5	<5	<10	<4	<5	350	<200
MW-2	08/24/09	<5	<5	<5	<10	<4	<5	280	<200
MW-2	11/23/09	<5	<5	<5	<10	<4	<5	360	<200
MW-2	03/02/10	<5	<5	<5	<10	<4	<5	740	<200
MW-2	06/10/10	<5	<5	<5	<10	143	<5	130	<200
MW-2	09/14/10	<5	<5	<5	<10	<4	<5		
MW-2	03/15/11	<5	<5	<5	<10	<4	<5		
MW-2	06/14/11	<5	<5	<5	<10	<4	<5		
MW-2	03/30/12	<5	<5	<5	<10	<4	<5		
MW-2	06/27/12	<5	<5	<5	<10	<4	<5		
MW-2	09/25/12	<5	<5	<5	<10	<4	<5		
MW-2	12/05/12	<5	<5	<5	<10	<4	<5		
MW-2	03/19/13	<5	<5	<5	<10	<4	<5		
MW-2	06/11/13	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Parameter							
		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-2	08/28/13	<5	<5	<5	<10	<4	<5		
MW-2	12/11/13	<5	<5	<5	<10	<4	<5		
MW-2	03/24/14	<5	<5	<5	<10	<4	<5		
MW-2	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-2	09/30/14	<5	<5	<5	<10	<4	<5		
MW-2	12/03/14	<5	<5	<5	<10	<4	<5		
MW-2	03/24/15	<5	<5	<5	<10	<4	<5		
MW-2	06/04/15	<5	<5	<5	<10	<4	<5		
MW-2	09/02/15	<5	<5	<5	<10	<4	<5		
MW-2	12/08/15	<5	<5	<5	<10	<4	<5		
MW-2	03/21/16	<5	<5	<5	<10	<4	<5		
MW-2	06/29/16	<5	<5	<5	<10	<4	<5		
MW-2	09/13/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-3 and MW-3R									
MW-3	05/06/04	<5	<5	<5	<5	**14.0**	<1		
MW-3	08/26/05	<5	<5	<5	<10	**15.0**	<1		
MW-3	09/25/06	<5	<5	<5	<10	**9.5**	<1		
MW-3R	07/03/07	<5	<5	<5	<10	**24.4**	<1	**770**	<200
MW-3R	09/21/07	<5	<5	<5	<10	**12.5**	<1	**600**	<200
MW-3R	11/30/07	<5	<5	<5	<10	**17.5**	<1	**730**	<200
MW-3R	03/21/08	<5	<5	<5	<10	**37.8**	<1	**1,700**	<200
MW-3R	06/24/08	<5	<5	<5	<10	**53.5**	<1	**1,600**	<200
MW-3R	09/19/08	<5	<5	<5	<10	**57.7**	NS	**3,500**	<200
MW-3R	03/11/09	<5	<5	<5	**70.8**	<4	<5	**3,000**	<200
MW-3R	05/26/09	<5	<5	<5	<10	**107**	<5	**3,400**	<200
MW-3R	08/24/09	<5	<5	<5	<10	**75.2**	<5	**1,300**	<200
MW-3R	11/23/09	<5	<5	<5	<10	**77.3**	<5	**1,700**	<200
MW-3R	03/01/10	<5	<5	<5	<10	**131**	<5	**3,200**	<200
MW-3R	06/10/10	<5	<5	<5	<10	**138**	<5	**2,500**	<200
MW-3R	09/13/10	<5	<5	<5	<10	**108**	<5		
MW-3R	03/16/11	<5	<5	<5	<10	**110**	<5		
MW-3R	06/15/11	<5	<5	<5	<10	**121**	<5		
MW-3R	09/29/11	<5	<5	<5	<10	**89.3**	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-3R	12/12/11	<5	<5	<5	<10	119	<5		
MW-3R	03/30/12	<5	<5	<5	<10	191	<5		
MW-3R	06/27/12	<5	<5	<5	<10	122	<5		
MW-3R *	09/25/12	<5	<5	<5	<10	110	<5		
MW-3R *	12/06/12	<5	<5	<5	<10	118	<5		
MW-3R *	03/19/13	<5	<5	<5	<10	115	<5		
MW-3R *	06/11/13	<5	<5	<5	<10	152	<5		
MW-3R *	08/28/13	<5	<5	<5	<10	104	<5		
Monitoring Well MW-3B									
MW-3B	03/21/07	1,090	<5	616	106	<4	120		
Monitoring Well MW-4									
MW-4	05/06/04	460	<5	<5	<5	2,900	50.0		
MW-4	08/26/05	200	<50	<50	<100	2,400	13.0		
MW-4	09/25/06	38.0	<25	<25	<50	1,600	5.3		
MW-4	03/21/07	51.5	<5	<5	<10	1,460	5.6		
MW-4	06/28/07	81.9	<25	<25	<50	1,600	1.9	24,300	25,100
MW-4	09/21/07	26.2	<5	<5	<10	2,460	<10	14,900	1,300
MW-4	11/30/07	27.6	<50	<50	<100	2,010	<5	32,100	27,100
MW-4	03/21/08	194	<50	<50	<100	2,500	2.5	15,800	14,300
MW-4	06/24/08	147	<5	<5	<10	1,880	<1	14,600	2,000
MW-4	09/19/08	39.2	<50	<50	<100	2,210	NS	99,400	28,400
MW-4	03/12/09	70.0	<25	<25	<50	1,660	<25	9,400	5,500
MW-4	05/26/09	339	<50	<50	<100	3,490	<50	11,500	5,700
MW-4	08/24/09	27.2	<5	<5	<10	2,000	<5	32,500	1,400
MW-4	11/24/09	<5	<5	<5	<10	1,690	<50	21,100	2,000
	Duplicate	<5	<5	<5	<10	1,630	<50	30,400	2,500
MW-4	03/01/10	26.3	<5	<5	<10	2,200	<5	28,700	3,400
MW-4	06/10/10	66.7	<5	<5	<10	1,790	<5	4,900	840
MW-4	09/13/10	<5	<5	<5	<10	1,590	<5		
MW-4	03/16/11	110	<5	<5	<10	1,870	<5		
MW-4	06/15/11	140	<5	<5	<10	1,610	<5		
MW-4	09/29/11	<50	<50	<50	<100	1,270	<50		
MW-4	12/12/11	32.2	<5	<5	<10	1,510	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-4	03/30/12	93.0	<5	<5	<10	1,230	<5		
MW-4 *	06/28/12	7.9	<5	<5	<10	1,210	<5		
MW-4 *	09/25/12	6.8	<5	<5	<10	1,450	<5		
MW-4 *	12/06/12	17.5	<5	<5	<10	1,340	<5		
MW-4 *	03/19/13	34.2	<5	<5	<10	1,010	<5		
MW-4 *	06/11/13	61.8	<5	<5	<10	1,250	<5		
MW-4 *	08/29/13	<5	<5	<5	<10	1,010	<5		
MW-4 *	12/11/13	<5	<5	<5	<10	1,210	<5		
MW-4 *	03/24/14	93.8	<5	<5	<10	835	<5		
MW-4 *	06/25/14	82.2	<5	<5	<10	925	<1.4		
MW-4 *	09/30/14	<5	<5	<5	<10	952	<5		
MW-4 *	12/03/14	<5	<5	<5	<10	901	7.5		
MW-4 *	03/24/15	38.8	<5	<5	<10	728	<5		
MW-4 *	06/05/15	106	<5	<5	<10	621	<5		
MW-4 *	09/02/15	<5	<5	<5	<10	953	<5		
MW-4 *	12/08/15	8.3	<5	<5	<10	745	5.8		
MW-4 *	03/21/16	36.4	<5	<5	<10	574	<5		
MW-4 *	06/27/16	88.4	<5	<5	<10	284	<5		
MW-4 *	09/13/16	<5	<5	<5	<10	588	<5		
Monitoring Well MW-5									
MW-5	05/06/04	<5	<5	<5	<5	<5	<1		
MW-5	08/26/05	<5	<5	<5	<10	<5	<1		
MW-5	09/25/06	<5	<5	<5	<10	<5	<1		
MW-5	03/21/07	<5	<5	<5	<10	<5	<1		
MW-5	06/28/07	<5	<5	<5	<10	<4	<1	1,200	<200
MW-5	09/21/07	26.2	<5	<5	<10	<4	<1	1,500	<200
MW-5	11/30/07	<5	<5	<5	<10	4.1	<1	1,500	<200
MW-5	03/21/08	<5	<5	<5	<10	<4	<1	550	<200
MW-5	06/24/08	18.4	<5	<5	<10	<4	<1	1,000	<200
MW-5	03/11/09	<5	<5	<5	<10	<4	<5	1,300	<200
MW-5	05/26/09	15.1	<5	<5	<10	<4	<5	1,400	<200
MW-5	08/24/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-5	11/24/09	21.7	<5	<5	<10	<4	<5	1,800	270

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-5	03/02/10	<5	<5	<5	<10	<4	<5	**120**	<200
MW-5	09/14/10	<5	<5	<5	<10	<4	<5		
MW-5	03/16/11	<5	<5	<5	<10	<4	<5		
MW-5	09/29/11	<5	<5	<5	<10	<4	<5		
MW-5	12/12/11	<5	<5	<5	<10	<4	<5		
MW-5	03/30/12	<5	<5	<5	<10	<4	<5		
MW-5	06/28/12	<5	<5	<5	<10	<4	<5		
MW-5	09/25/12	<5	<5	<5	<10	<4	<5		
MW-5	12/06/12	<5	<5	<5	<10	<4	<5		
MW-5	03/19/13	<5	<5	<5	<10	<4	<5		
MW-5	06/12/13	<5	<5	<5	<10	<4	<5		
MW-5	08/29/13	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-6									
MW-6	05/06/04	<5	<5	<5	<5	**61.0**	<1		
MW-6	08/26/05	<5	<5	**6.9**	<10	**45.0**	<1		
MW-6	09/25/06	<5	<5	**6.9**	<10	**31.0**	<1		
MW-6	03/21/07	<5	<5	<5	<10	**31.3**	<1		
MW-6	06/28/07	<5	<5	<5	<10	**35.6**	<1	**380**	<200
MW-6	09/21/07	<5	<5	<5	<10	**25.5**	<1.1	**960**	<200
MW-6	11/30/07	<5	<5	<5	<10	**47.1**	<1	**690**	<200
MW-6	03/21/08	<5	<5	<5	<10	**33.6**	<1	**330**	<200
MW-6	06/24/08	<5	<5	<5	<10	**38.1**	<1	**460**	<200
MW-6	03/11/09	<5	<5	<5	<10	<4	<5	**720**	<200
MW-6	05/26/09	<5	<5	<5	<10	**34.8**	<5	**800**	<200
MW-6	03/16/11	<5	<5	<5	<10	**64.7**	<5		
MW-6	06/15/11	<5	<5	<5	<10	**57.0**	<5		
MW-6	09/29/11	<5	<5	<5	<10	**57.3**	<5		
MW-6	12/12/11	<5	<5	<5	<10	**62.5**	<5		
MW-6	03/30/12	<5	<5	<5	<10	**57.8**	<5		
MW-6	06/27/12	<5	<5	<5	<10	**60.6**	<5		
MW-6	09/25/12	<5	<5	<5	<10	**80.5**	<5		
MW-6	12/05/12	<5	<5	<5	<10	**69.0**	<5		
MW-6	03/19/13	<5	<5	<5	<10	**73.9**	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-6	06/12/13	<5	<5	<5	<10	110	<5		
MW-6	08/28/13	<5	<5	<5	<10	45.0	<5		
MW-6	06/29/16	<25	<25	<25	<50	359	<25		
MW-6	09/13/16	<5	<5	<5	<10	147	<5		
Monitoring Well MW-7									
MW-7	05/06/04	43.0	<5	<5	<5	29.0	7.9		
MW-7	08/26/05	<5	<5	6.9	<10	6.0	<1		
MW-7	03/21/07	67.8	<5	<5	<10	<4	3.6		
MW-7	06/28/07	15.9	<5	<5	<10	<4	1.3	4,000	360
MW-7	09/21/07	15.3	<5	<5	<10	31.4	<1.1	5,000	<200
MW-7	11/30/07	28.6	<5	<5	<10	72.5	1.6	4,200	840
MW-7	03/21/08	81.1	<5	<5	<10	122	5.9	4,500	440
MW-7	06/24/08	28.7	<5	<5	<10	92.7	1.9	6,400	<200
MW-7	09/19/08	60.4	<50	<50	<100	121	NS	1,020,000	2,000
MW-7	03/12/09	48.4	<25	<25	<50	152	70.6	108,000	1,100
MW-7	05/26/09	48.1	<125	<125	<250	207	484	404,000	3,500
MW-7	03/02/10	24.5	<5	<5	<10	194	144	75,800	9,000
	Duplicate	<5	<5	<5	<10	<4	<5	352,000	3,100
MW-7	06/10/10	<5	<5	<5	<10	<4	21.1	106,000	6,000
MW-7	09/14/10	<5	<5	<5	<10	176	24.0		
MW-7 *	03/16/11	<5	<5	<5	<10	<4	5.2		
MW-7 *	06/15/11	<5	<5	<5	<10	<4	<5		
MW-7 *	03/30/12	<5	<5	<5	<10	4.7	<5		
MW-7 *	06/28/12	<5	5.6	<5	14.9	94.0	<5		
MW-7 *	09/26/12	24.6	6.5	<5	17.7	37.5	10.0		
MW-7 *	12/05/12	33.8	<5	<5	<10	120	21.5		
MW-7 *	03/19/13	10.3	6.5	<5	25.9	126	6.0		
MW-7 *	06/11/13	27.2	5.4	<5	24.9	197	9.7		
MW-7 *	08/29/13	19.6	<5	<5	17.8	176	13.2		
MW-7 *	03/24/14	50.5	<5	<5	<10	43.3	9.7		
MW-7 *	06/25/14	48.4	<5	<5	<10	144	6.4		
MW-7 *	09/30/14	20.2	<5	<5	<10	136	5.4		
MW-7 *	12/03/14	17.6	<5	<5	<10	171	18.9		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-7 *	03/24/15	35.8	<5	<5	<10	<4	11.3		
MW-7 *	06/05/15	39.5	<5	<5	<10	99.3	6.5		
MW-7 *	09/02/15	6.4	<5	<5	<10	43.0	<5		
MW-7 *	12/08/15	26.7	<5	<5	<10	698	<5		
MW-7 *	03/21/16	32.2	<5	<5	<10	123	<5		
MW-7 *	06/27/16	10.0	<5	<5	<10	<4	11.4		
MW-7 *	09/13/16	<4	<5	<5	<10	9.7	7.1		
Monitoring Well MW-8 and MW-8R									
MW-8	05/06/04	<5	<5	<5	<5	<5	<1		
MW-8	08/26/05	<5	<5	<5	<10	<5	<1		
MW-8	09/25/06	<5	<5	<5	<10	<5	<1		
MW-8	03/21/07	<5	<5	<5	<10	<4	<1		
MW-8R	08/24/09	<5	<5	<5	<10	<4	<5	190	<200
MW-8R	11/23/09	<5	<5	<5	<10	<4	<5	510	<200
MW-8R	03/01/10	<5	<5	<5	<10	<4	<5	550	<200
MW-8R	06/10/10	<5	<5	<5	<10	<4	<5	810	<200
MW-8R	09/13/10	<5	<5	<5	<10	<4	<5		
MW-8R	03/16/11	<5	<5	<5	<10	<4	<5		
MW-8R	06/15/11	<5	<5	<5	<10	<4	<5		
MW-8R	03/30/12	<5	<5	<5	<10	<4	<5		
MW-8R	06/28/12	<5	<5	<5	<10	<4	<5		
MW-8R	09/25/12	<5	<5	<5	<10	<4	<5		
MW-8R	12/06/12	<5	<5	<5	<10	<4	<5		
MW-8R	03/19/13	<5	<5	<5	<10	<4	<5		
MW-8R	06/11/13	<5	<5	<5	<10	<4	<5		
MW-8R	08/28/13	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-9									
MW-9	05/06/04	<5	<5	<5	<5	140	<1		
MW-9	08/26/05	<5	<5	<5	<10	16.0	<1		
MW-9	09/25/06	<5	<5	<5	<10	53.0	<1		
MW-9	03/21/07	<5	<5	<5	<10	12.7	<1		
MW-9	06/28/07	<5	<5	<5	<10	17.0	<1	3,600	<200
MW-9	09/21/07	<5	<5	<5	<10	42.6	<1	2,100	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-9	11/30/07	<5	<5	<5	<10	<4	<1	1,800	<200
MW-9	03/20/08	<5	<5	<5	<10	<4	<1.1	510	<200
MW-9	06/24/08	<5	<5	<5	<10	**36.7**	<1	1,200	<200
MW-9	09/19/08	<5	<5	<5	<10	214	NS	1,900	<200
MW-9	03/12/09	<5	<5	<5	<10	<4	<5	1,200	<200
MW-9	05/26/09	<5	<5	<5	<10	<4	<5	720	<200
MW-9	08/24/09	<5	<5	<5	<10	110	<5	630	<200
MW-9	11/23/09	<5	<5	<5	<10	**4.4**	<5	2,100	<200
MW-9	03/02/10	<5	<5	<5	<10	<4	<5	770	<200
MW-9	09/14/10	<5	<5	<5	<10	43.9	<5		
MW-9	03/16/11	<5	<5	<5	<10	<4	<5		
MW-9	06/15/11	<5	<5	<5	<10	<4	<5		
MW-9	09/25/12	<5	<5	<5	<10	<4	<5		
MW-9	12/05/12	<5	<5	<5	<10	**9.0**	<5		
MW-9	03/19/13	<5	<5	<5	<10	<4	<5		
MW-9	06/12/13	<5	<5	<5	<10	<4	<5		
MW-9	12/11/13	<5	<5	<5	<10	<4	<5		
MW-9	03/24/14	<5	<5	<5	<10	<4	<5		
MW-9	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-9	09/30/14	<5	<5	<5	<10	**5.4**	<5		
MW-9	12/03/14	<5	<5	<5	<10	<4	<5		
MW-9	03/24/15	<5	<5	<5	<10	<4	<5		
MW-9	06/04/15	<5	<5	<5	<10	<4	<5		
MW-9	09/02/15	<5	<5	<5	<10	<4	<5		
MW-9	12/08/15	<5	<5	<5	<10	<4	<5		
MW-9	03/21/16	<5	<5	<5	<10	<4	<5		
MW-9	09/13/16	31.4	<5	<5	<10	<4	<5		
Monitoring Well MW-10 and MW-10R									
MW-10	08/26/05	<5	<5	<5	<10	<5	<1		
MW-10	09/25/06	<5	<5	<5	<10	<5	<1		
MW-10	03/21/07	<5	<5	<5	<10	<4	<1		
MW-10R	02/08/10	<5	<5	<5	<10	<4	NS		
MW-10R	03/01/10	<5	<5	<5	<10	45.7	<5	3,100	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-10R	06/10/10	<5	<5	<5	<10	**30.0**	<5	**1,300**	<200
MW-10R	09/13/10	<5	<5	<5	<10	**21.3**	<5		
MW-10R	03/16/11	<5	<5	<5	<10	**45.2**	<5		
MW-10R	06/15/11	<5	<5	<5	<10	**36.7**	<5		
MW-10R	09/29/11	<5	<5	<5	<10	**49.8**	<5		
MW-10R	12/12/11	<5	<5	<5	<10	**38.2**	<5		
MW-10R	03/30/12	<5	<5	<5	<10	**28.7**	<5		
MW-10R	06/28/12	<5	<5	<5	<10	**29.9**	<5		
MW-10R	09/25/12	<5	<5	<5	<10	**50.7**	<5		
MW-10R	12/06/12	<5	<5	<5	<10	**20.3**	<5		
MW-10R	03/19/13	<5	<5	<5	<10	**7.3**	<5		
MW-10R	06/11/13	<5	<5	<5	<10	**23.0**	<5		
MW-10R	08/28/13	<5	<5	<5	<10	**11.7**	<5		
MW-10R	12/11/13	<5	<5	<5	<10	**20.8**	<5		
MW-10R	03/24/14	<5	<5	<5	<10	**18.5**	<5		
MW-10R	06/25/14	<5	<5	<5	<10	**27.8**	<1.4		
MW-10R	09/30/14	<5	<5	<5	<10	**32.3**	<5		
MW-10R	12/03/14	<5	<5	<5	<10	**36.8**	<5		
MW-10R	03/24/15	<5	<5	<5	<10	**21.3**	<5		
MW-10R	06/04/15	<5	<5	<5	<10	**16.1**	<5		
MW-10R	09/01/15	<5	<5	<5	<10	**37.7**	<5		
MW-10R	12/08/15	<5	<5	<5	<10	**26.2**	<5		
MW-10R	03/21/16	<5	<5	<5	<10	**12.3**	<5		
MW-10R	06/29/16	<5	<5	<5	<10	**14.9**	<5		
MW-10R	09/13/16	<5	<5	<5	<10	**13.8**	<5		
Monitoring Well MW-11									
MW-11	05/06/04	**3,200**	**5.6**	**130**	**110**	**1,600**	**210**		
	Duplicate	**2,900**	**6.0**	**130**	**110**	**1,900**	**160**		
MW-11	08/26/05	**2,700**	**2.4**	**84.0**	**37.0**	**2,100**	**130**		
	Duplicate	**2,500**	**2.3**	**78.0**	**34.0**	**2,200**	**100**		
MW-11	09/25/06	**2,900**	**12.0**	**100**	**53.0**	**2,400**	**140**		
	Duplicate	**2,900**	**12.0**	**83.0**	**51.0**	**2,400**	**170**		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-11	03/21/07	2,120	5.1	42.9	24.1	2,030	133		
	Duplicate	2,180	5.0	48.9	28.3	2,190	123		
MW-11	06/28/07	2,000	17.9	52.6	38.7	1,690	168	54,200	1,000
MW-11	09/21/07	2,090	<50	40.0	<100	<40	361	156,000	11,500
	Duplicate	2,030	<5	42.3	60.6	1,160	404	65,800	10,800
MW-11	11/30/07	1,330	<50	<50	<100	1,570	118	318,000	28,667
	Duplicate	1,070	<50	<50	<100	1,280	230	291,022	38,835
MW-11	03/21/08	1,920	6.7	42.2	21.2	1,610	37.6	7,400	5,300
	Duplicate	1,660	6.2	36.2	18.4	1,470	39.1	7,400	5,000
MW-11	06/24/08	484	<5	11.3	<10	351	61.9	97,000	3,000
	Duplicate	517	<5	14.9	<10	481	63.8	21,000	11,500
MW-11	09/19/08	1,980	<50	20.9	<100	1,730	NS	150,000	6,300
	Duplicate	2,270	<50	19.0	<100	1,690	NS	58,700	36,100
MW-11	03/12/09	<5	<5	<5	<10	<4	<5	3,000	<200
	Duplicate	<5	<5	<5	<10	<4	<5		<200
MW-11	05/26/09	233	<5	<5	<10	386	5.1	5,400	1,400
	Duplicate	884	<50	<50	<100	851	<50	5,700	1,400
MW-11	08/24/09	914	<50	<50	<100	766	39.7	52,700	3,900
MW-11	11/23/09	104	<50	<50	<100	49.3	<50	22,100	3,000
MW-11	03/01/10	<5	<5	<5	<10	<4	<5	5,000	530
MW-11	06/10/10	<5	<5	<5	<10	<4	<5	2,900	<200
MW-11	09/14/10	446	<5	<5	<10	567	18.7		
MW-11	03/16/11	168	<50	<50	<100	378	<50		
	Duplicate	160	<50	<50	<100	360	<50		
MW-11	06/15/11	446	<5	<5	<10	323	5.9		
	Duplicate	464	<5	<5	<10	318	6.0		
MW-11	09/29/11	11.0	<5	<5	<10	<4	<5		
	Duplicate	10.5	<5	<5	<10	<4	<5		
MW-11	12/12/11	<5	<5	<5	<10	7.0	<5		
MW-11	03/30/12	33.3	<5	<5	<10	259	<5		
MW-11	06/27/12	239	<5	<5	<10	215	<5		
MW-11	09/25/12	27.0	<5	<5	<10	24.1	<5		
MW-11	12/05/12	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-11	03/19/13	<5	<5	<5	<10	<4	<5		
MW-11	06/12/13	32.6	<5	<5	<10	51.6	<5		
MW-11	08/28/13	203	<5	<5	<10	221	<5		
MW-11	12/11/13	<5	<5	<5	<10	<4	<5		
MW-11	03/24/14	<5	<5	<5	<10	<4	<5		
MW-11	06/25/14	13.9	<5	<5	<10	30.4	<1.4		
MW-11	09/29/14	<5	<5	<5	<10	6.6	<5		
MW-11	12/03/14	<5	<5	<5	<10	<4	<5		
MW-11	03/24/15	<5	<5	<5	<10	<4	<5		
MW-11	06/04/15	<5	<5	<5	<10	<4	<5		
MW-11	12/08/15	<5	<5	<5	<10	<4	<5		
MW-11	03/21/16	<5	<5	<5	<10	7.3	<5		
MW-11	06/29/16	6.5	<5	<5	<10	27.2	<5		
MW-11	09/13/16	<5	<5	<5	<10	73.3	<5		
Monitoring Well MW-12									
MW-12	05/06/04	1,000	9.8	5.6	290	<5	10.0		
MW-12	08/26/05	890	7.8	11.0	240	<5	9.0		
MW-12	09/25/06	1,800	18.0	41.0	540	<5	11.0		
MW-12	03/21/07	1,150	10.4	40.5	108	<5	3.1		
MW-12	06/28/07	602	<5	8.3	60.6	<4	6.4	490	1,000
	Duplicate	623	<5	9.8	64.0	<4	3.0	<100	1,100
MW-12	03/27/08	594	16.3	47.5	100	<4	5.9	950	1,400
MW-12	06/24/08	301	<5	<10	12.6	<4	<1	450	400
MW-12	03/12/09	567	16.3	15.7	<50	<20	<25	NS	1,200
MW-12	05/26/09	1,430	8.0	66.5	<50	<20	<25	600	2,600
MW-12	08/24/09	383	<5	<5	14.8	<4	<5	450	860
MW-12	11/23/09	280	<5	<5	13.3	<4	20.0	680	880
MW-12	03/02/10	495	<5	11.5	<10	<4	<5	940	990
MW-12	06/10/10	617	<5	24.9	92.6	<4	8.0	780	1,300
	Duplicate	<5	<5	<5	<10	<4	<5	660	<200
MW-12	09/14/10	1,120	10.3	28.2	156	<4	38.8		
	Duplicate	1,170	10.3	26.2	151	<4	33.8		
MW-12	03/15/11	449	6.7	16.1	13.3	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-12	06/14/11	941	<50	<50	<100	<40	<50		
MW-12	09/29/11	1,100	11.6	13.8	118	<4	26.1		
MW-12	12/12/11	316	<5	<5	22.5	<4	<5		
	Duplicate	290	<5	<5	23.0	<4	<5		
MW-12	03/30/12	1,160	11.4	54.7	247	<4	20.0		
	Duplicate	1,400	14.2	56.3	274	<4	24.0		
MW-12	06/27/12	740	5.2	<5	30.4	<4	15.5		
	Duplicate	777	5.5	<5	31.9	<4	15.8		
MW-12	09/25/12	1,930	10.2	8.4	57.3	<4	24.3		
	Duplicate	1,990	9.8	8.2	55.8	<4	23.4		
MW-12	12/05/12	598	<5	<5	33.1	<4	<5		
	Duplicate	582	<5	<5	39.7	<4	<5		
MW-12	03/19/13	1,240	9.9	60.5	170	<4	18.9		
	Duplicate	1,230	8.9	43.3	124	<4	10.7		
MW-12	06/12/13	2,200	18.1	31.8	224	<4	37.6		
	Duplicate	2,310	18.6	34.4	233	<4	39.9		
MW-12	08/29/13	2,530	17.0	16.6	191	<4	76.2		
	Duplicate	2,430	19.6	18.1	207	<4	82.1		
MW-12	12/11/13	1,050	7.3	9.3	92.1	<4	11.5		
	Duplicate	1,000	7.8	9.0	93.7	<4	10.7		
MW-12	03/24/14	978	<50	<50	<100	<40	<50		
	Duplicate	996	<50	<50	<100	<40	<50		
MW-12	06/25/14	2,140	15.8	14.9	202	<4	55.0		
	Duplicate	2,070	16.4	14.8	198	<4	51.5		
MW-12	09/29/14	1,660	<50	<50	143	<40	<50		
	Duplicate	1,750	<50	<50	132	<40	<50		
MW-12	12/03/14	2,520	<50	52.0	325	<40	95.1		
	Duplicate	2,470	<50	50.5	320	<40	90.8		
MW-12	03/24/15	1,040	10.7	29.3	34.1	<4	12.0		
	Duplicate	926	8.5	18.9	24.3	<4	10.4		
MW-12	06/05/15	2,180	18.7	27.0	61.2	<4	61.5		
	Duplicate	2,160	18.9	27.5	62.9	<4	62.7		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-12	09/02/15	**784**	**6.4**	<5	**75.7**	<4	**23.6**		
	Duplicate	**653**	**6.8**	<5	**79.6**	<4	**24.2**		
MW-12	12/08/15	**984**	**7.2**	<5	**39.9**	<4	**24.5**		
	Duplicate	**935**	**7.4**	<5	**39.0**	<4	**21.8**		
MW-12	03/21/16	**421**	<5	<5	**14.6**	<4	<5		
	Duplicate	**433**	<5	<5	**14.5**	<4	<5		
MW-12	06/29/16	**1,610**	<50	<50	<100	<40	**<50**		
	Duplicate	**1,610**	<50	<50	<100	<40	**<50**		
MW-12	09/13/16	**1,350**	**12.6**	**12.4**	**78.8**	<4	**51.5**		
	Duplicate	**1,450**	**12.8**	**13.4**	**83.6**	<4	**56.1**		
Monitoring Well MW-13									
MW-13	06/28/07	<5	<5	<5	<10	<4	<1	<110	<200
MW-13	09/21/07	<5	<5	<5	<10	<4	<1	**250**	<200
MW-13	11/30/07	<5	<5	<5	<10	<4	<1	**180**	<200
MW-13	03/20/08	<5	<5	<5	<10	<4	<1	<100	<200
MW-13	06/24/08	<5	<5	<5	<10	<4	<1	<100	<200
MW-13	03/12/09	<5	<5	<5	<10	<4	<5	<76	<200
MW-13	05/26/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-13	08/24/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-13	03/02/10	<5	<5	<5	<10	<4	<5	**150**	<200
MW-13	09/14/10	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-15									
MW-15	05/06/04	<5	<5	<5	<5	<5	<1		
MW-15	08/26/05	<5	<5	<5	<10	<5	<1		
MW-15	09/25/06	<5	<5	<5	<10	<5	<1		
MW-15	03/21/07	<5	<5	<5	<10	<5	<1		
MW-15	06/28/07	<5	<5	<5	<10	<4	<1	**340**	<200
MW-15	09/21/07	<5	<5	<5	<10	<4	<1	**990**	<200
MW-15	11/30/07	<5	<5	<5	<10	<4	<1	**800**	<200
MW-15	03/21/08	<5	<5	<5	<10	<4	<1	**390**	<200
MW-15	06/24/08	<5	<5	<5	<10	<4	<1	**470**	<200
MW-15	03/11/09	<5	<5	<5	<10	<4	<5	**630**	<200
MW-15	05/26/09	<5	<5	<5	<10	<4	<5	**550**	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Parameter							
		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-15	08/24/09	<5	<5	<5	<10	<4	<5	**480**	<200
MW-15	11/23/09	<5	<5	<5	<10	<4	<5	**820**	<200
MW-15	06/10/10	<5	<5	<5	<10	<4	<5	**600**	<200
MW-15	09/13/10	<5	<5	<5	<10	<4	<5		
MW-15	03/15/11	<5	<5	<5	<10	<4	<5		
MW-15	06/14/11	<5	<5	<5	<10	<4	<5		
MW-15	09/26/12	<5	<5	<5	<10	<4	<5		
MW-15	12/05/12	<5	<5	<5	<10	<4	<5		
MW-15	03/19/13	<5	<5	<5	<10	<4	<5		
MW-15	06/11/13	<5	<5	<5	<10	<4	<5		
MW-15	08/28/13	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-16									
MW-16	05/06/04	<5	<5	<5	<5	<5	<1		
MW-16	08/26/05	<5	<5	<5	<10	<5	<1		
MW-16	09/25/06	<5	<5	<5	<10	<5	<1		
MW-16	03/21/07	<5	<5	<5	<10	<5	<1		
MW-16	06/28/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-16	09/21/07	<5	<5	<5	<10	<4	<1	**240**	<200
MW-16	11/30/07	<5	<5	<5	<10	<4	<1.1	**138**	<200
MW-16	03/21/08	<5	<5	<5	<10	<4	<1.2	<120	<200
MW-16	06/24/08	<5	<5	<5	<10	<4	<1.2	<120	<200
MW-16	03/11/09	<5	<5	<5	<10	<4	<5	**400**	<200
MW-16	05/26/09	<5	<5	<5	<10	<4	<5	**82.0**	<200
MW-16	08/24/09	<5	<5	<5	<10	<4	<5	**260**	<200
MW-16	11/23/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-16	03/01/10	<5	<5	<5	<10	<4	<5	**250**	<200
MW-16	06/10/10	<5	<5	<5	<10	<4	<5	**150**	<200
MW-16	09/14/10	<5	<5	<5	<10	<4	<5		
MW-16	09/26/12	<5	<5	<5	<10	<4	<5		
MW-16	12/05/12	<5	<5	<5	<10	<4	<5		
MW-16	03/19/13	<5	<5	<5	<10	<4	<5		
MW-16	06/11/13	<5	<5	<5	<10	<4	<5		
MW-16	08/28/13	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-16	12/11/13	<5	<5	<5	<10	<4	<5		
MW-16	03/24/14	<5	<5	<5	<10	<4	<5		
MW-16	09/30/14	<5	<5	<5	<10	<4	<5		
MW-16	12/03/14	<5	<5	<5	<10	<4	<5		
MW-16	03/24/15	<5	<5	<5	<10	<4	<5		
MW-16	06/05/15	<5	<5	<5	<10	<4	<5		
MW-16	09/02/15	<5	<5	<5	<10	<4	<5		
MW-16	12/08/15	<5	<5	<5	<10	<4	<5		
MW-16	03/21/16	<5	<5	<5	<10	<4	<5		
MW-16	06/29/16	<5	<5	<5	<10	<4	<5		
MW-16	09/13/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-17									
MW-17	03/01/10	<5	<5	<5	<10	<4	<5	<100	<200
MW-17	09/14/10	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-18									
MW-18	08/26/05	<5	<5	<5	<10	<5	<1		
Monitoring Well MW-19									
MW-19	08/26/05	<5	<5	<5	<10	<5	<1		
MW-19	09/25/06	<5	<5	<5	<10	<5	<1		
MW-19	03/21/07	<5	<5	<5	<10	<5	<1		
Monitoring Well MW-20									
MW-20	05/06/04	230	15.0	270	349	<5	8.2		
MW-20	08/26/05	170	8.0	340	320	<5	25.0		
MW-20	09/25/06	260	25.0	560	640	<5	<1		
MW-20	03/21/07	213	34.0	332	601	<5	10.7		
MW-20	06/28/07	211	12.4	356	396	<4	38.5	9,200	2,200
MW-20	09/21/07	187	18.1	620	715	<8	34.4	17,000	3,600
MW-20	11/30/07	342	27.1	941	1,090	<40	10.1	8,000	3,503
MW-20	03/21/08	147	20.9	477	468	<4	9.4	8,600	35,700
MW-20	06/24/08	222	29.4	445	501	<4	41.8	10,500	3,200
MW-20	09/19/08	189	13.1	678	707	<4	NS	9,900	4,500
MW-20	03/12/09	41.2	<5	58.6	20.0	<4	<5	200	540
MW-20	05/26/09	6.0	<5	<5	<10	<4	<5	2,500	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-20	08/24/09	160	8.6	401	215	<4	50.3	7,800	2,500
MW-20	11/23/09	135	6.0	408	172	<4	51.7	9,700	2,400
MW-20	03/01/10	118	8.2	349	168	<4	34.8	8,600	2,200
MW-20	06/10/10	139	<5	338	147	<4	35.5	7,400	2,200
MW-20	09/13/10	115	<5	358	108	<4	52.9		
MW-20	03/15/11	108	<5	314	82	<4	21.4		
MW-20	06/14/11	102	<5	339	70.1	<4	24.4		
MW-20	09/29/11	95.0	<5	293	17.0	<4	20.5		
MW-20	12/12/11	99.2	<5	286	<10	<4	14.0		
MW-20	03/30/12	86.6	<5	238	27.2	<4	8.2		
MW-20	06/28/12	110	<5	293	15.5	<4	16.4		
MW-20	09/25/12	77.9	<5	274	<10	<4	18.0		
MW-20	03/19/13	70.2	<5	189	<10	<4	5.6		
MW-20	06/11/13	79.0	<5	190	<10	<4	6.4		
MW-20	08/28/13	76.2	<5	168	<10	<4	<5		
MW-20	12/11/13	63.6	<5	97.6	<10	<4	5.3		
MW-20	03/24/14	46.6	<5	82.7	<10	<4	<5		
MW-20	06/25/14	61.3	<5	105	<10	<4	4.6		
MW-20	09/29/14	53.7	<5	45.6	<10	<4	<5		
MW-20	12/03/14	34.8	<5	28.7	<10	<4	<5		
MW-20	03/24/15	56.8	<5	47.0	<10	<4	<5		
MW-20	06/04/15	51.1	<5	35.2	<10	<4	<5		
MW-20	09/01/15	45.2	<5	8.1	<10	<4	6.5		
MW-20	12/08/15	8.2	<5	<5	<10	<4	<5		
MW-20	03/21/16	36.6	<5	<5	<10	<4	6.8		
MW-20	06/27/16	35.5	<5	<5	<10	<4	9.8		
MW-20	06/27/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-22									
MW-22	06/28/07	<5	<5	<5	<10	<4	<1	420	<200
MW-22	09/21/07	<5	<5	<5	<10	<4	<1	440	<200
MW-22	11/30/07	<5	<5	<5	<10	<4	<1.7	260	<200
MW-22	03/20/08	<5	<5	<5	<10	<4	<1	100	<200
MW-22	06/24/08	<5	<5	<5	<10	<4	<1	110	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Parameter							
		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-22	03/12/09	<5	<5	<5	<10	<4	<5	**120**	<200
MW-22	11/23/09	<5	<5	<5	<10	<4	<5	**200**	<200
MW-22	03/02/10	<5	<5	<5	<10	<4	<5	**190**	<200
MW-22	09/14/10	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-23									
MW-23	05/06/04	<5	<5	<5	<5	<5	<1		
MW-23	08/26/05	<5	<5	<5	<10	<5	<1		
MW-23	09/25/06	<5	<5	<5	<10	<5	<1		
MW-23	03/21/07	<5	<5	<5	<10	<5	<1		
MW-23	06/28/07	<5	<5	<5	<10	<4	<1	**1,200**	<200
MW-23	09/21/07	<5	<5	<5	<10	<4	<1.2	**2,200**	<200
MW-23	11/30/07	<5	<5	<5	<10	<4	<1.1	**1,700**	<200
MW-23	03/21/08	<5	<5	<5	<10	<4	<1	**180**	<200
MW-23	06/24/08	<5	<5	<5	<10	<4	<1	**730**	<200
MW-23	09/19/08	<5	<5	<5	<10	<4	NS	**1,200**	<200
MW-23	03/11/09	<5	<5	<5	<10	<4	<5	**1,000**	<200
MW-23	05/26/09	<5	<5	<5	<10	<4	<5	**990**	<200
MW-23	08/24/09	<5	<5	<5	<10	<4	<5	**940**	<200
MW-23	11/23/09	<5	<5	<5	<10	<4	<5	**1,300**	<200
MW-23	03/01/10	<5	<5	<5	<10	<4	<5	**1,400**	<200
MW-23	06/10/10	<5	<5	<5	<10	<4	<5	**1,100**	<200
MW-23	09/13/10	<5	<5	<5	<10	<4	<5		
MW-23	03/15/11	<5	<5	<5	<10	<4	<5		
MW-23	06/14/11	<5	<5	<5	<10	<4	<5		
MW-23	09/26/12	<5	<5	<5	<10	<4	<5		
MW-23	12/05/12	<5	<5	<5	<10	<4	<5		
MW-23	03/19/13	<5	<5	<5	<10	<4	<5		
MW-23	06/11/13	<5	<5	<5	<10	<4	<5		
MW-23	08/28/13	<5	<5	<5	<10	<4	<5		
MW-23	12/11/13	<5	<5	<5	<10	<4	<5		
MW-23	03/24/14	<5	<5	<5	<10	<4	<5		
MW-23	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-23	09/29/14	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Parameter							
		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-23	12/03/14	<5	<5	<5	<10	<4	<5		
MW-23	03/24/15	<5	<5	<5	<10	<4	<5		
MW-23	06/04/15	<5	<5	<5	<10	<4	<5		
MW-23	09/01/15	<5	<5	<5	<10	<4	<5		
MW-23	12/08/15	<5	<5	<5	<10	<4	<5		
MW-23	03/21/16	<5	<5	<5	<10	<4	<5		
MW-23	06/27/16	<5	<5	<5	<10	<4	<5		
MW-23	09/13/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-24									
MW-24	05/26/09	<5	<5	<5	<10	<4	<5	<130	<200
MW-24	08/24/09	<5	<5	<5	<10	<4	<5	<130	<200
Monitoring Well MW-25									
MW-25	08/26/05	<5	<5	<5	<10	<5	<1		
MW-25	09/25/06	<5	<5	<5	<10	<5	<1		
MW-25	03/21/07	<5	<5	<5	<10	<5	<1		
Monitoring Well MW-26									
MW-26	09/21/07	<5	<5	<5	<10	<4	<1.1	**400**	<200
MW-26	11/30/07	<5	<5	<5	<10	<4	<1	**190**	<200
MW-26	03/20/08	<5	<5	<5	<10	<4	<1.1	<100	<200
MW-26	06/24/08	<5	<5	<5	<10	<4	<1	**150**	<200
MW-26	09/19/08	<5	<5	<5	<10	<4	NS	**610**	<200
MW-26	03/12/09	<5	<5	<5	<10	<4	<5	<82	<200
MW-26	05/26/09	<5	<5	<5	<10	<4	<5	**86.0**	<200
MW-26	08/24/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-26	11/23/09	<5	<5	<5	<10	<4	<5	<100	<200
MW-26	03/02/10	<5	<5	<5	<10	<4	<5	**120**	<200
MW-26	06/10/10	<5	<5	<5	<10	<4	<5	**140**	<200
MW-26	09/14/10	<5	<5	<5	<10	<4	<5		
MW-26	03/16/11	<5	<5	<5	<10	<4	<5		
MW-26	06/14/11	<5	<5	<5	<10	<4	<5		
MW-26	09/25/12	<5	<5	<5	<10	<4	<5		
MW-26	12/05/12	<5	<5	<5	<10	<4	<5		
MW-26	03/19/13	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-26	06/12/13	<5	<5	<5	<10	<4	<5		
MW-26	08/28/13	<5	<5	<5	<10	<4	<5		
MW-26	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-26	06/05/15	<5	<5	<5	<10	<4	<5		
MW-26	06/29/16	<5	<5	<5	<10	<4	<5		
MW-26	09/13/16	**94.6**	<5	<5	<10	<4	<5		
Monitoring Well MW-27									
MW-27	07/17/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-27	09/21/07	<5	<5	<5	<10	<4	<1.1	**360**	<200
MW-27	11/30/07	<5	<5	<5	<10	<4	<1	**310**	<200
MW-27	03/20/08	<5	<5	<5	<10	<4	<1.1	<100	<200
Monitoring Well MW-28									
MW-28	08/24/09	<5	<5	<5	<10	**6.8**	<5	**140**	<200
MW-28	11/23/09	<5	<5	<5	<10	<4	**18.8**	**240**	<200
MW-28	03/01/10	<5	<5	<5	<10	<4	<5	**240**	<200
MW-28	06/10/10	<5	<5	<5	<10	<4	<5	**100**	<200
MW-28	09/13/10	<5	<5	<5	<10	<4	<5		
MW-28	03/15/11	<5	<5	<5	<10	<4	<5		
MW-28	06/14/11	<5	<5	<5	<10	<4	<5		
MW-28	09/26/12	<5	<5	<5	<10	<4	<5		
MW-28	12/05/12	<5	<5	<5	<10	<4	<5		
MW-28	03/19/13	<5	<5	<5	<10	<4	<5		
MW-28	06/11/13	<5	<5	<5	<10	<4	<5		
MW-28	08/28/13	<5	<5	<5	<10	<4	<5		
MW-28	12/11/13	<5	<5	<5	<10	<4	<5		
MW-28	03/24/14	<5	<5	<5	<10	<4	<5		
MW-28	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-28	09/29/14	<5	<5	<5	<10	<4	<5		
MW-28	12/03/14	<5	<5	<5	<10	<4	<5		
MW-28	03/24/15	<5	<5	<5	<10	<4	<5		
MW-28	06/05/15	<5	<5	<5	<10	<4	<5		
MW-28	09/01/15	<5	<5	<5	<10	<4	<5		
MW-28	12/08/15	<5	<5	<5	<10	<4	<5		

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		52	20,000	10,000	20,000	720	2,000	2,500	14,000
RISC RDCL		5	1,000	700	10,000	40	8.3	260	1,100
MW-28	03/21/16	<5	<5	<5	<10	<4	<5		
MW-28	06/27/16	<5	<5	<5	<10	<4	<5		
MW-28	09/13/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-29									
MW-29	02/08/10	<5	<5	<5	<10	<4	NS		
MW-29	03/01/10	<5	<5	<5	**8.1**	**9.7**	<5	**2,300**	<200
MW-29	06/10/10	<5	<5	<5	<10	<4	<5	**2,100**	<200
MW-29	09/13/10	<5	<5	<5	<10	<4	<5		
MW-29	03/15/11	<5	<5	<5	<10	<4	<5		
MW-29	06/14/11	<5	<5	<5	<10	<4	<5		
MW-29	09/25/12	<5	<5	<5	<10	<4	<5		
MW-29	12/05/12	<5	<5	<5	<10	<4	<5		
MW-29	03/19/13	<5	<5	<5	<10	<4	<5		
MW-29	06/12/13	<5	<5	<5	<10	<4	<5		
MW-29	08/28/13	<5	<5	<5	<10	<4	<5		
MW-29	12/11/13	<5	<5	<5	<10	<4	<5		
MW-29	03/24/14	<5	<5	<5	<10	<4	<5		
MW-29	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-29	09/29/14	<5	<5	<5	<10	<4	<5		
MW-29	12/03/14	<5	<5	<5	<10	<4	<5		
MW-29	03/24/15	<5	<5	<5	<10	<4	<5		
MW-29	06/04/15	<5	<5	<5	<10	<4	<5		
MW-29	09/01/15	<5	<5	<5	<10	<4	<5		
MW-29	12/08/15	<5	<5	<5	<10	<4	<5		
MW-29	03/21/16	<5	<5	<5	<10	<4	<5		
MW-29	06/29/16	<5	<5	<5	<10	<4	<5		
MW-29	09/13/16	<5	<5	<5	<10	<4	<5		
DEEP WELLS									
Monitoring Well MW-19D									
MW-19 D	06/28/07	<5	<5	<5	<10	<4	<1	<110	<200
MW-19 D	09/21/07	<5	<5	<5	<10	<4	<1	**300**	<200
MW-19 D	11/30/07	<5	<5	<5	<10	<4	<1	**100**	<200
MW-19 D	03/20/08	<5	<5	<5	<10	<4	<1	<100	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No. 04-006

VRP No. 6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-19 D	03/12/09	<5	<5	<5	<10	<4	<5	<76	<200
MW-19 D	06/10/10	<5	<5	<5	<10	<4	<5	**120**	<200
Monitoring Well MW-20D and Duplicate									
MW-20 D	07/03/07	<5	<5	<5	<10	<4	<1	<100	<200
Duplicate		<5	<5	<5	<10	<4	<1	<100	<200
MW-20 D	09/21/07	<5	<5	<5	<10	<4	<1	**680**	<200
MW-20 D	11/30/07	<5	<5	<5	<10	<4	<1.1	**200**	<200
MW-20 D	03/20/08	<5	<5	<5	<10	<4	<1	<100	<200
MW-20 D	03/12/09	<5	<5	<5	<10	<4	<5	**99.0**	<200
MW-20 D	06/10/10	<5	<5	<5	<10	<4	<5	**110**	<200
MW-20 D	06/27/12	<5	<5	<5	<10	<4	<5		
MW-20 D	12/05/12	<5	<5	<5	<10	<4	<5		
MW-20 D	06/11/13	<5	<5	<5	<10	<4	<5		
MW-20 D	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-20 D	06/04/15	<5	<5	<5	<10	<4	<5		
MW-20 D	06/27/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-25D									
MW-25 D	06/28/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-25 D	09/21/07	<5	<5	<5	<10	<4	<1	**270**	<200
MW-25 D	11/30/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-25 D	03/20/08	<5	<5	<5	<10	<4	<1	<100	<200
MW-25 D	03/11/09	<5	<5	<5	<10	<4	<5	**120**	<200
MW-25 D	06/10/10	<5	<5	<5	<10	<4	<5	**150**	<200
MW-25 D	06/28/12	<5	<5	<5	<10	<4	<5		
MW-25 D	06/11/13	<5	<5	<5	<10	<4	<5		
MW-25 D	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-25 D	06/05/15	<5	<5	<5	<10	<4	<5		
MW-25 D	06/27/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-26D									
MW-26 D	07/03/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-26 D	09/21/07	<5	<5	<5	<10	<4	<1	**250**	<200
MW-26 D	11/30/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-26 D	03/20/08	<5	<5	<5	<10	<4	<1	**270**	<200

Table 2: Historical Groundwater Analytical Results by Well

G & G Bulk Fuel Facility

Terra Project No.	04-006	VRP No.	6060101

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	TPH ERO	TPH GRO
		Parameter							
Method		EPA 8260						EPA 8015	
Units		ug/L							
RISC IDCL		**52**	**20,000**	**10,000**	**20,000**	**720**	**2,000**	**2,500**	**14,000**
RISC RDCL		**5**	**1,000**	**700**	**10,000**	**40**	**8.3**	**260**	**1,100**
MW-26 D	03/12/09	<5	<5	<5	<10	<4	<5	**92.0**	<200
MW-26 D	06/10/10	<5	<5	<5	<10	<4	<5	<100	<200
MW-26 D	06/27/12	<5	<5	<5	<10	<4	<5		
MW-26 D	06/12/13	<5	<5	<5	<10	<4	<5		
MW-26 D	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-26 D	06/05/15	<5	<5	<5	<10	<4	<5		
MW-26 D	06/29/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-28D									
MW-28 D	07/03/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-28 D	09/21/07	<5	<5	<5	<10	<4	<1	**170**	<200
MW-28 D	11/30/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-28 D	03/20/08	<5	<5	<5	<10	<4	<1	<100	<200
MW-28 D	03/11/09	<5	<5	<5	<10	<4	<5	<77	<200
MW-28 D	06/10/10	<5	<5	<5	<10	<4	<5	<100	<200
MW-28 D	06/27/12	<5	<5	<5	<10	<4	<5		
MW-28 D	06/11/13	<5	<5	<5	<10	<4	<5		
MW-28 D	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-28 D	06/04/15	<5	<5	<5	<10	<4	<5		
MW-28 D	06/29/16	<5	<5	<5	<10	<4	<5		
Monitoring Well MW-29D									
MW-29 D	07/03/07	<5	<5	<5	<10	<4	<1	110	<200
MW-29 D	09/21/07	<5	<5	<5	<10	<4	<1	**290**	<200
MW-29 D	11/30/07	<5	<5	<5	<10	<4	<1	<100	<200
MW-29 D	03/20/08	<5	<5	<5	<10	<4	<1	**120**	<200
MW-29 D	03/11/09	<5	<5	<5	<10	<4	<5	**90.0**	<200
MW-29 D	06/10/10	<5	<5	<5	<10	<4	<5	<100	<200
MW-29 D	06/28/12	<5	<5	<5	<10	<4	<5		
MW-29 D	06/12/13	<5	<5	<5	<10	<4	<5		
MW-29 D	06/25/14	<5	<5	<5	<10	<4	<1.4		
MW-29 D	06/04/15	<5	<5	<5	<10	<4	<5		

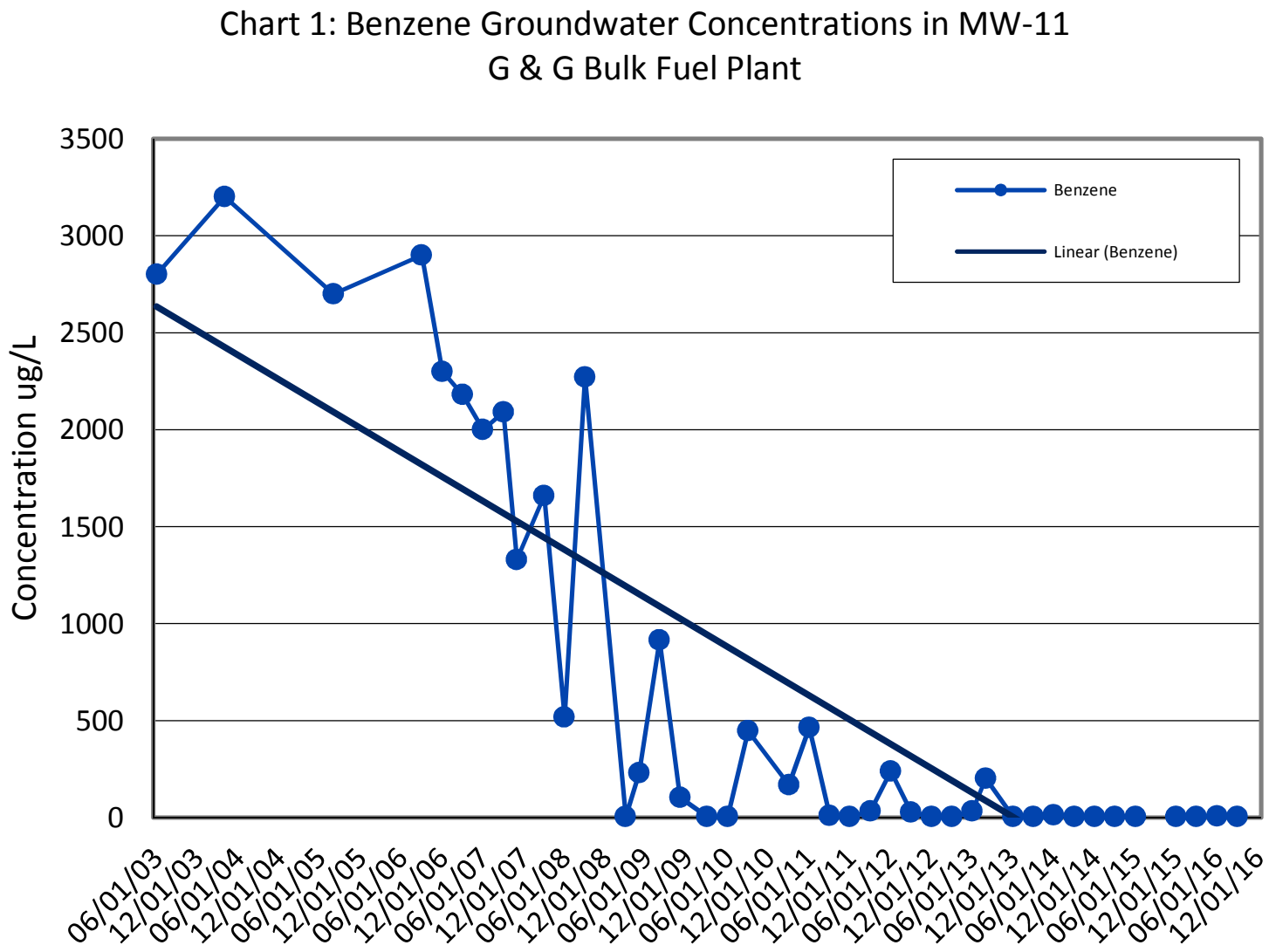
Chart 1: Benzene Groundwater Concentrations in MW-11
G & G Bulk Fuel Plant
Concentration ug/L
3500
3000
2500
2000
1500
1000
500
0
Benzene
Linear (Benzene)
06/01/03
12/01/03
06/01/04
12/01/04
06/01/05
12/01/05
06/01/06
12/01/06
06/01/07
12/01/07
06/01/08
12/01/08
06/01/09
12/01/09
06/01/10
12/01/10
06/01/11
12/01/11
06/01/12
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12/01/15
06/01/16
12/01/16

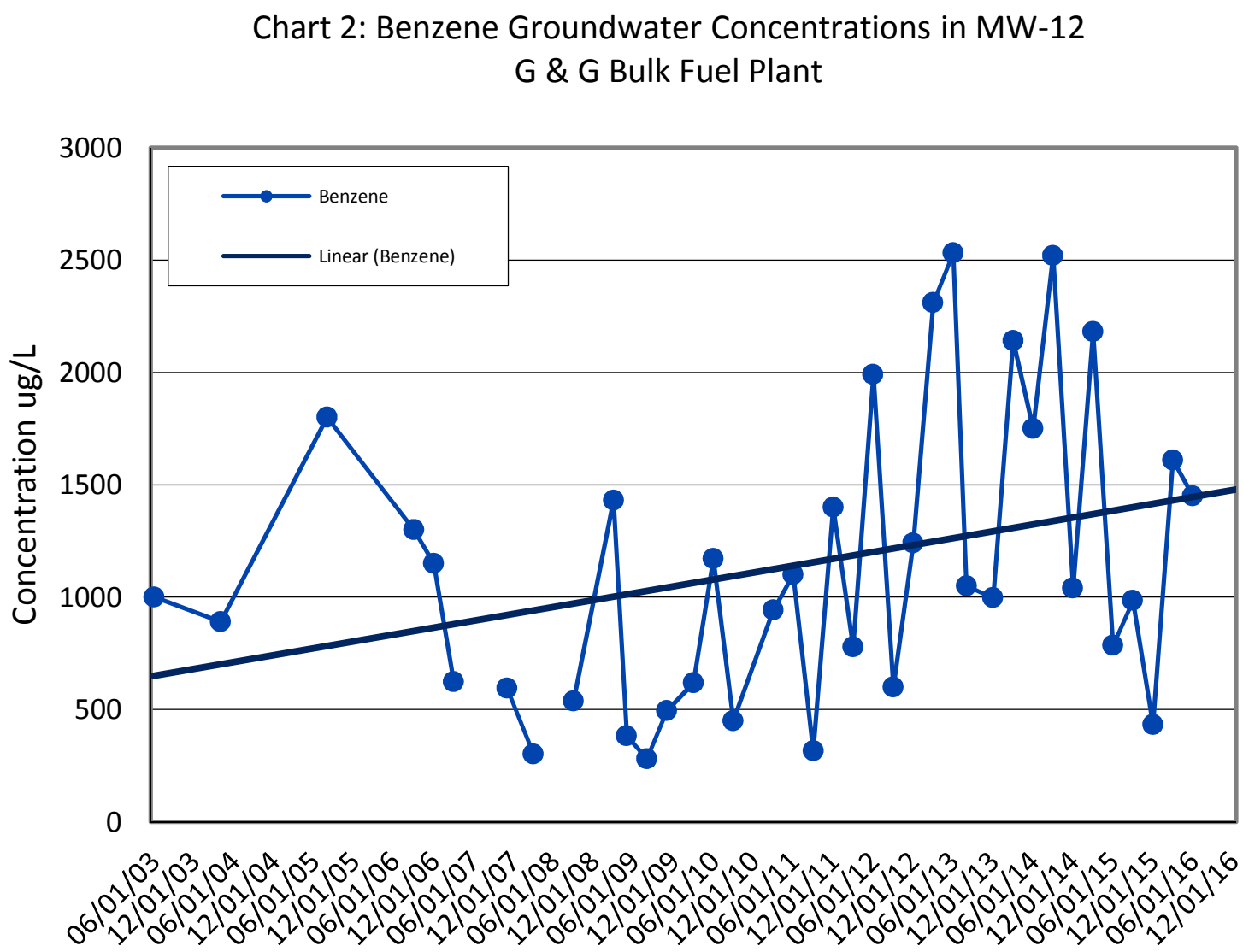
Chart 2: Benzene Groundwater Concentrations in MW-12
G & G Bulk Fuel Plant
Benzene
Linear (Benzene)
Concentration ug/L
3000
2500
2000
1500
1000
500
0
06/01/03
12/01/03
06/01/04
12/01/04
06/01/05
12/01/05
06/01/06
12/01/06
06/01/07
12/01/07
06/01/08
12/01/08
06/01/09
12/01/09
06/01/10
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06/01/12
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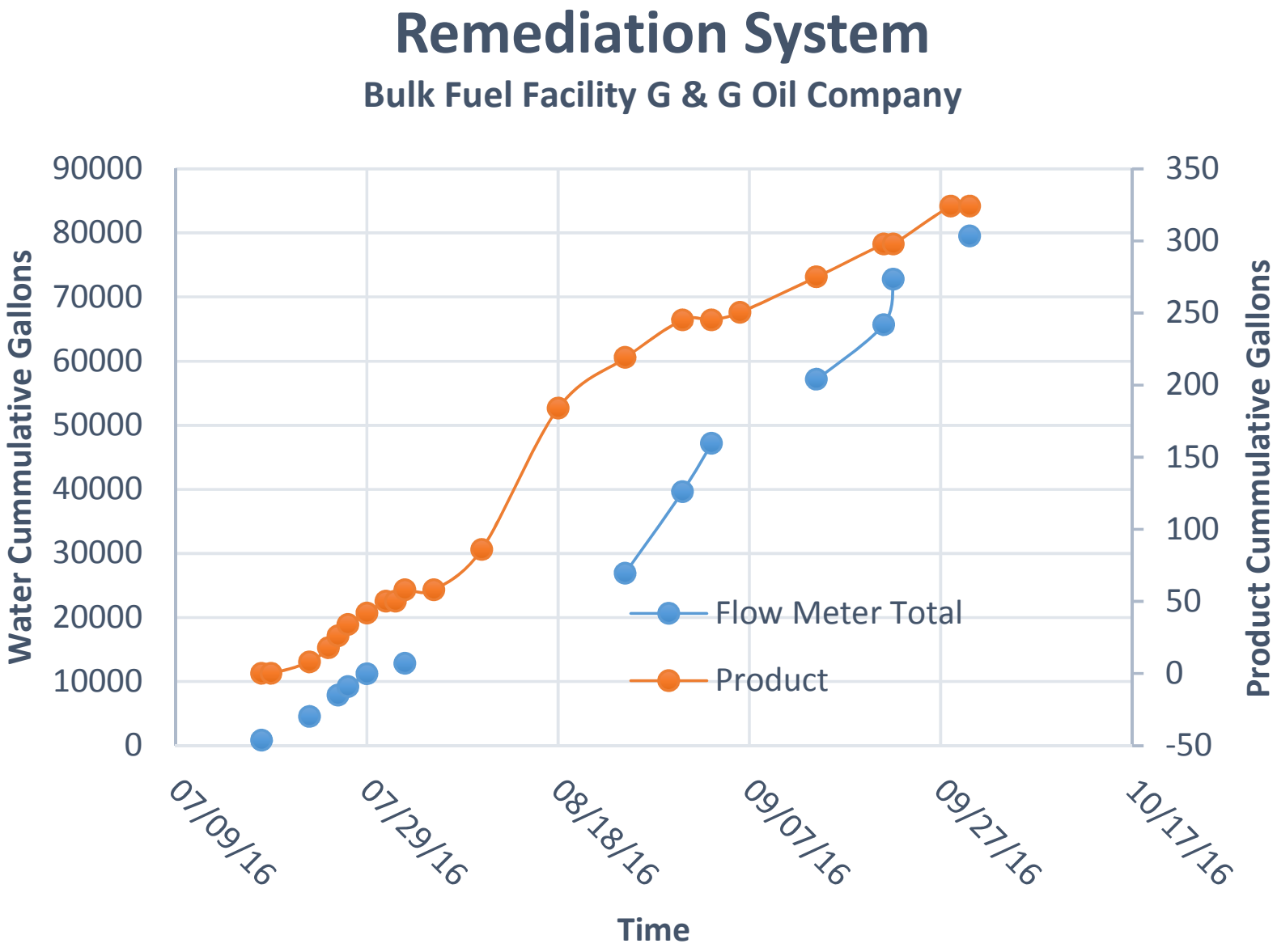
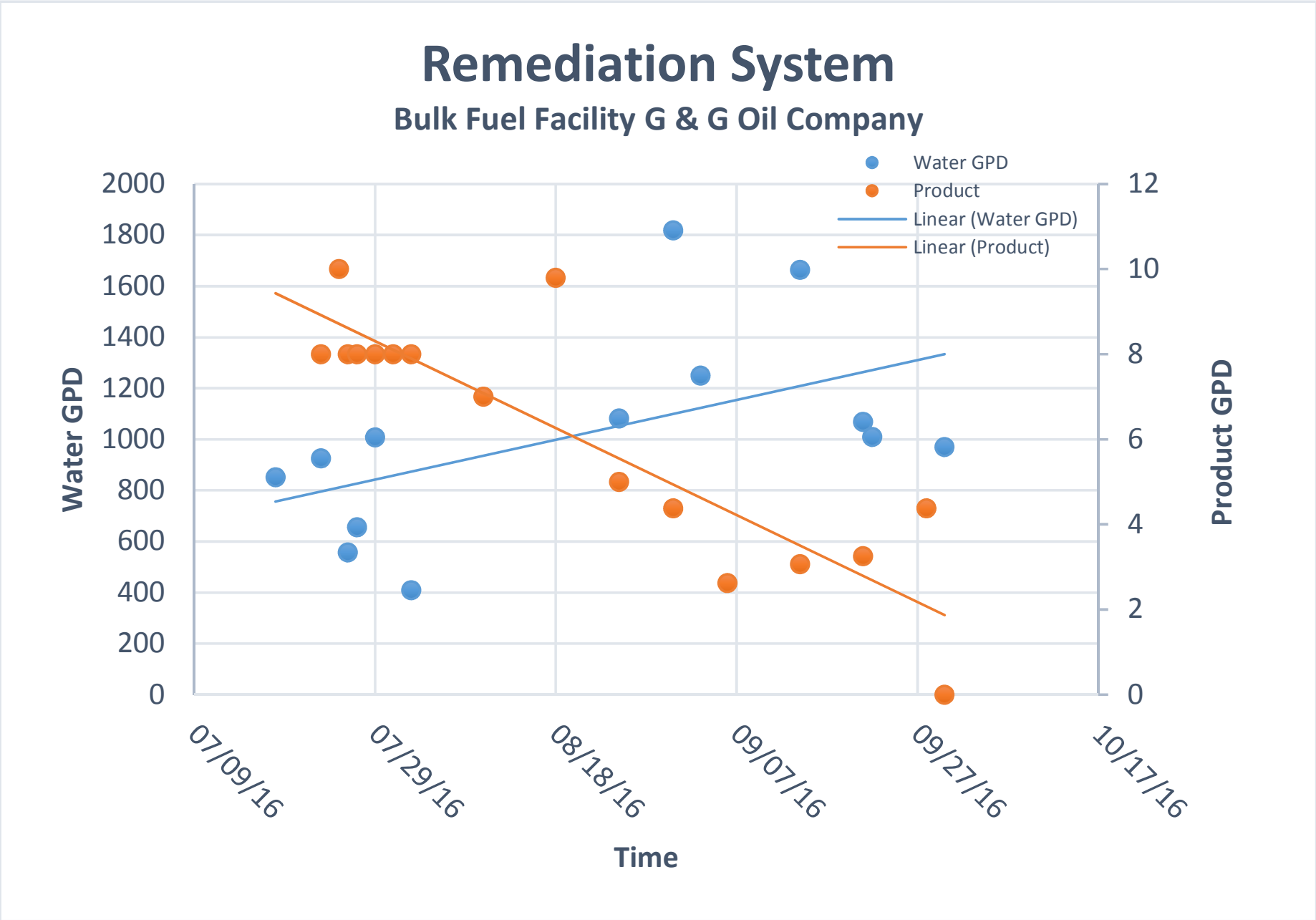
06/01/16
12/01/16


Remediation System
Bulk Fuel Facility G & G Oil Company
Water Cummulative Gallons
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Product Cummulative Gallons
350
300
250
200
150
100
50
0
-50
Flow Meter Total
Product
07/09/16
07/29/16
08/18/16
09/07/16
09/27/16
10/17/16
Time


Remediation System
Bulk Fuel Facility G & G Oil Company
Water GPD
Product
Linear (Water GPD)
Linear (Product)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Water GPD
12
10
8
6
4
2
0
Product GPD
07/09/16
07/29/16
08/18/16
09/07/16
09/27/16
10/17/16
Time

APPENDIX B: FIGURES

FIGURE 1: Site Vicinity/Topographic Map

FIGURE 2: Site Map Showing Locations of Monitoring Wells

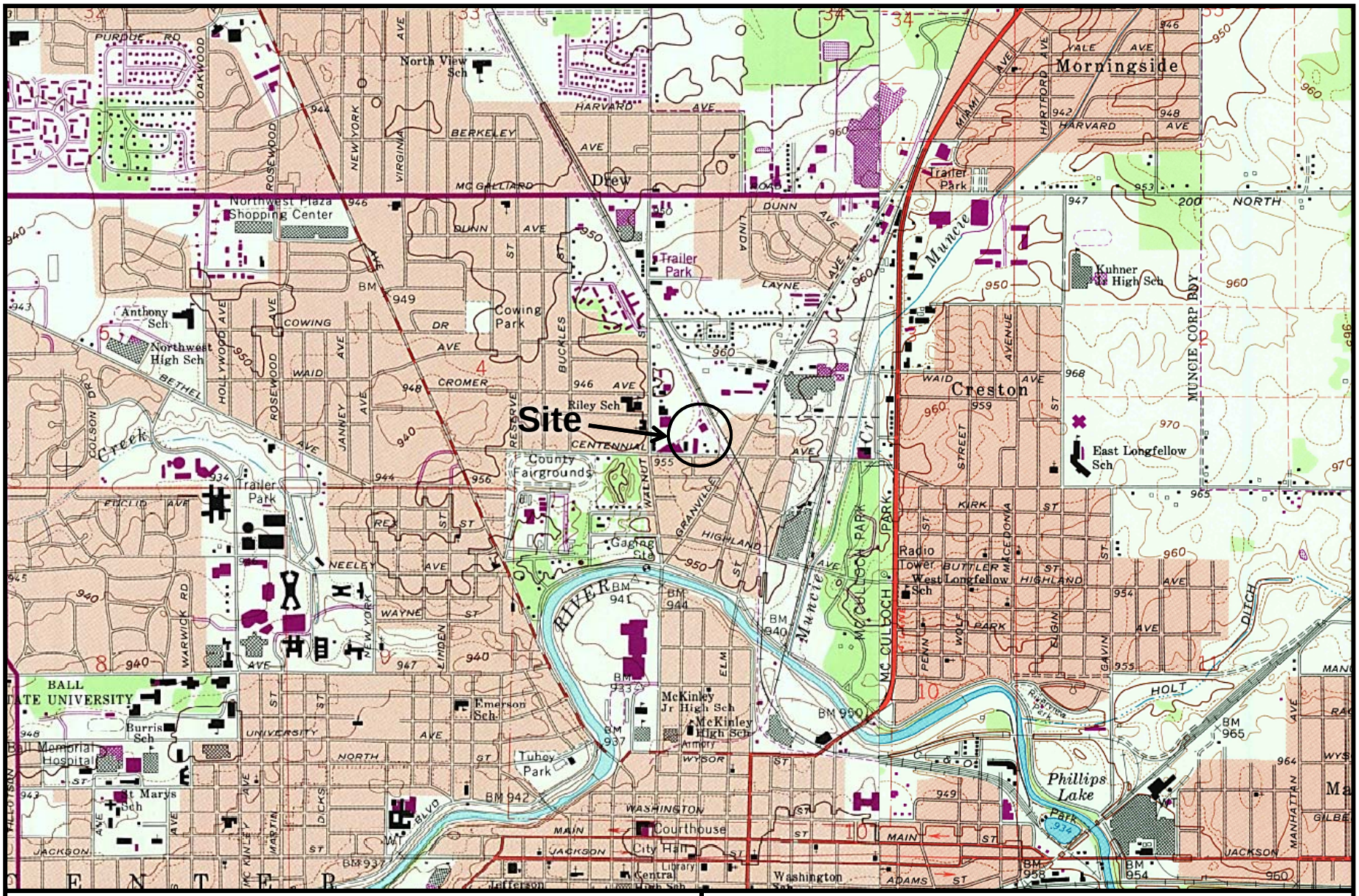
FIGURE 3: Site Map Showing Capture Zone, Recover Wells & Particle Path Lines

FIGURE 4: Contour Map of the Groundwater Elevation (Upper Saturated Unit)

FIGURE 5: Contour Map of Benzene Concentrations in the Groundwater

FIGURE 6: Contour Map of MTBE Concentrations in the Groundwater

FIGURE 7: Contour Map of Naphthalene Concentrations in the Groundwater



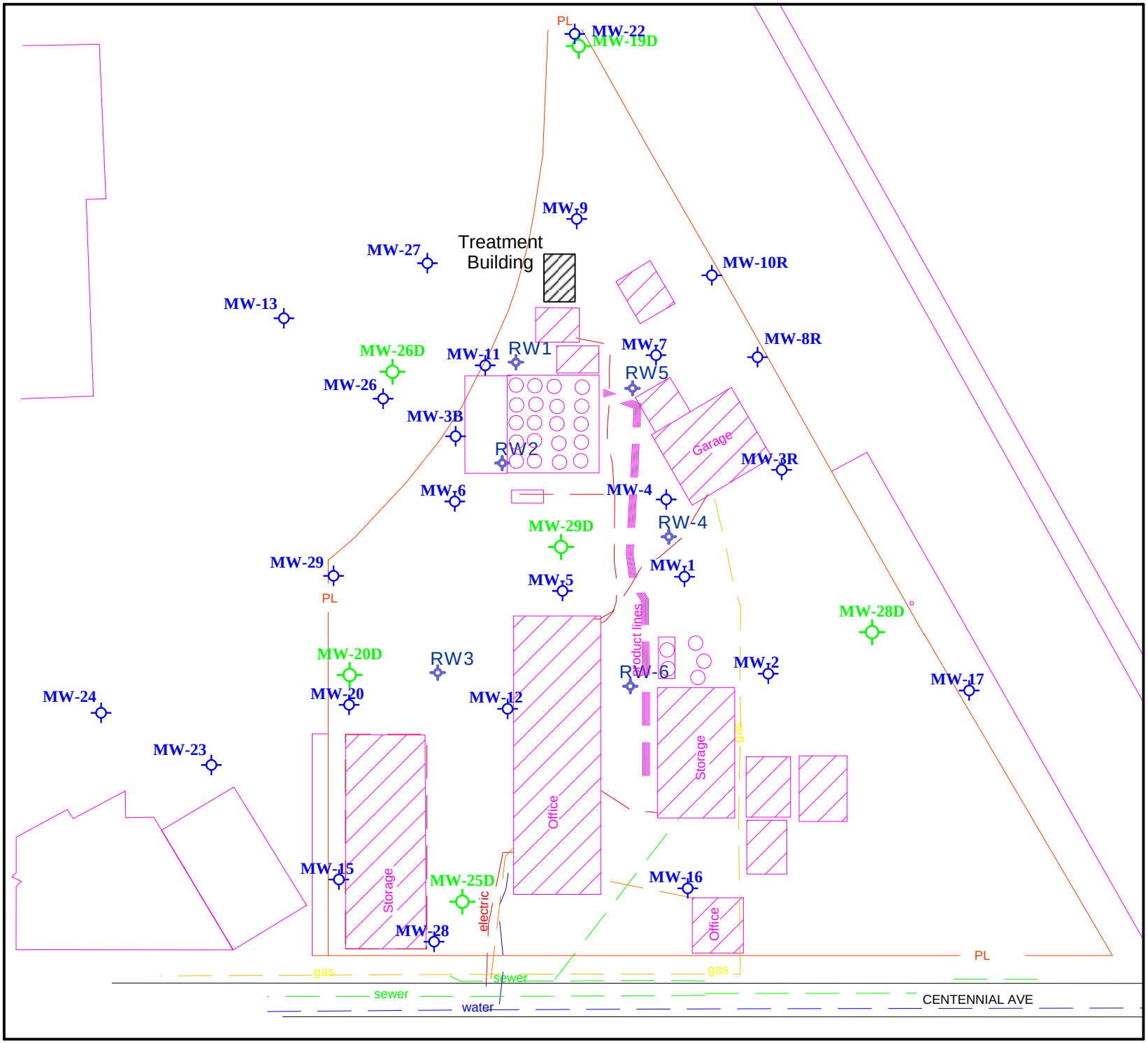
MUNCIE WEST QUADRANGLE
INDIANA – DELAWARE CO.
1969

1 inch = 2,000 feet

N

Site Vicinity/Topographic Map
220 E Centennial Ave
Muncie, Indiana

Job No.	**04-006**	**Figure**	**1**



Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Sub Slab Soil Vapor Location
- Indoor Air Sample
- Recovery Well
- RISC RDCL
- RISC IDCL

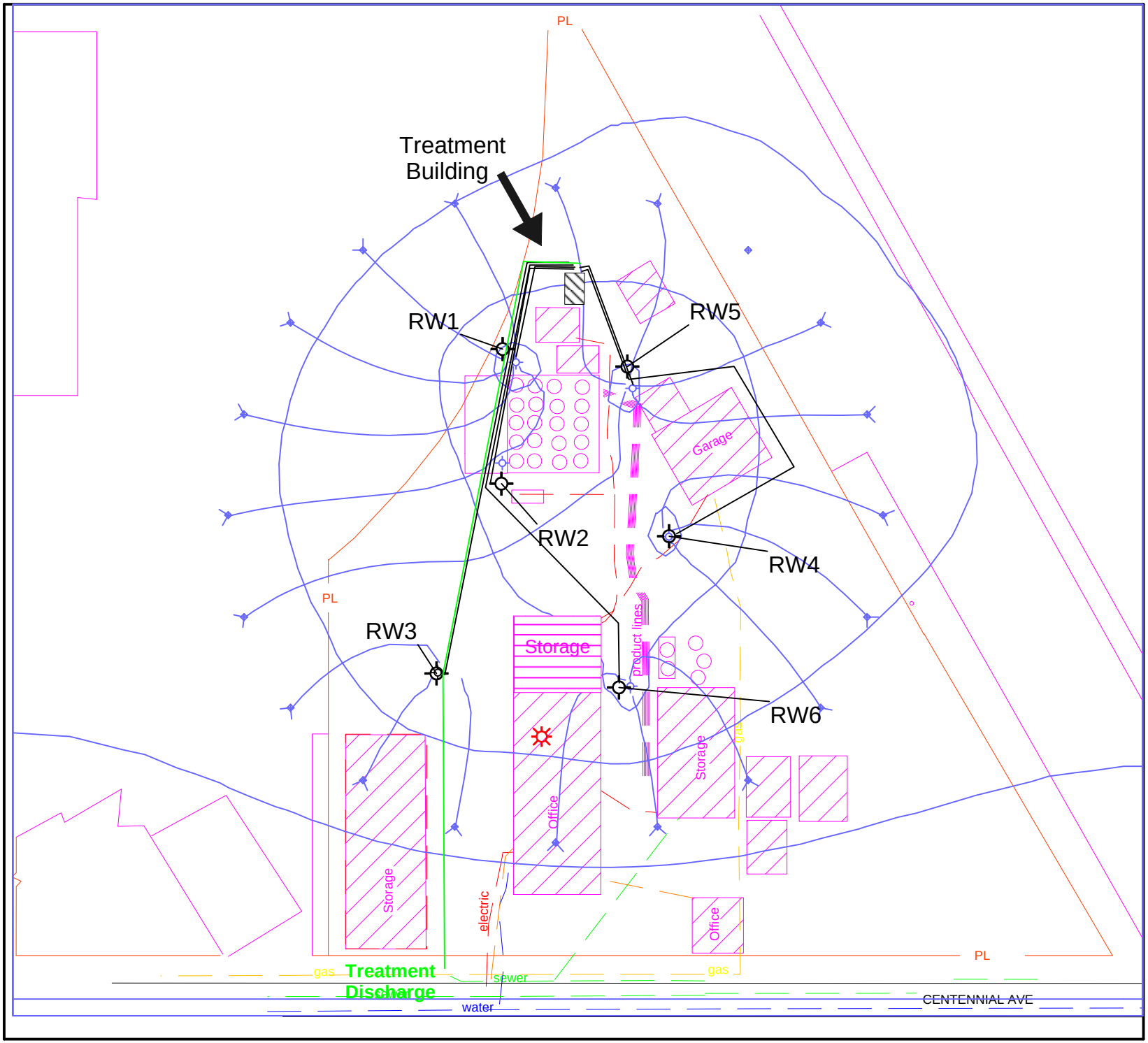
0ft 100ft

Figure 2 Project No 04-006

Site Map Showing Monitoring Wells, Recovery Wells, Remediation System and Property Line

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION



N
W E
S

Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Soil Gas sub slab (SGss) Location & Indoor Air Sample
- Recovery Well

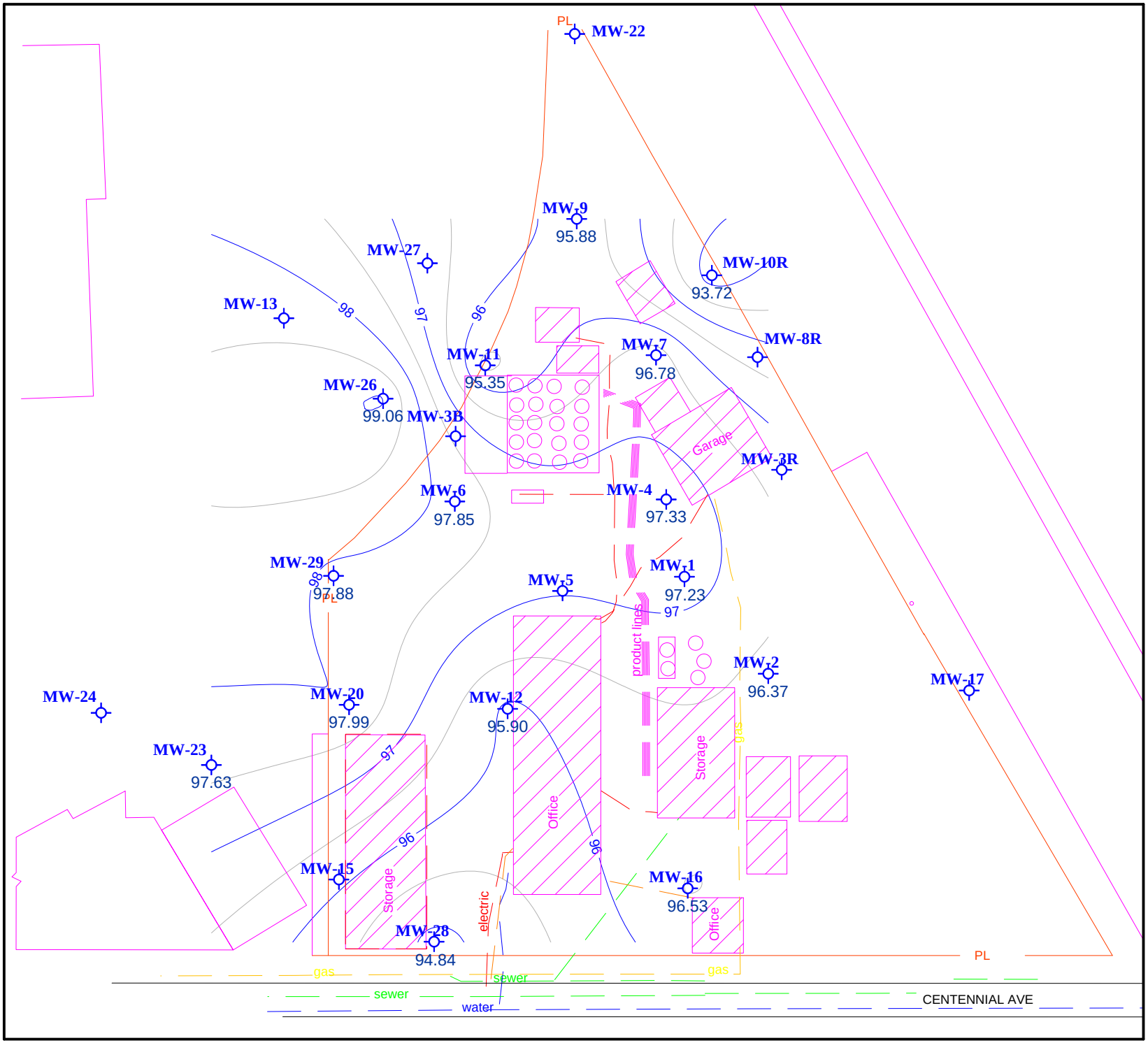
0ft 125ft

Figure 3 Project No 04-006

Capture Zone Recovery Wells RW1-RW-6, Particle pathlines are shown

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION



Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Sub Slab Soil Vapor Location
- Indoor Air Sample
- Recovery Well
- RISC RDCL
- RISC IDCL

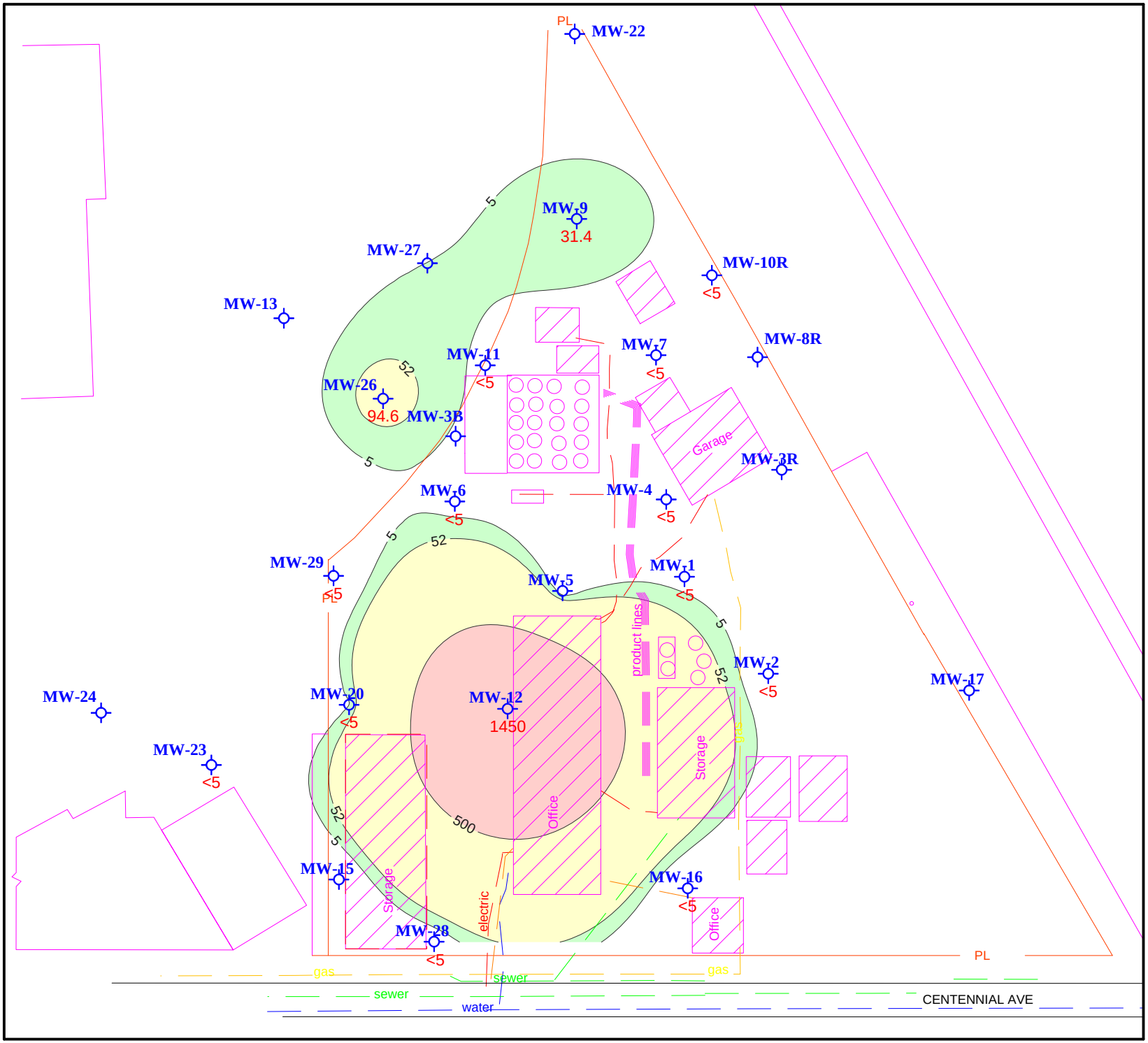
0ft 100ft

Figure 4 Project No 04-006

Contour Map
Showing Upper Zone
Groundwater Elevations
Q3-2016 (Units in feet)

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION



Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Sub Slab Soil Vapor Location
- Indoor Air Sample
- Recovery Well
- RISC RDCL
- RISC IDCL

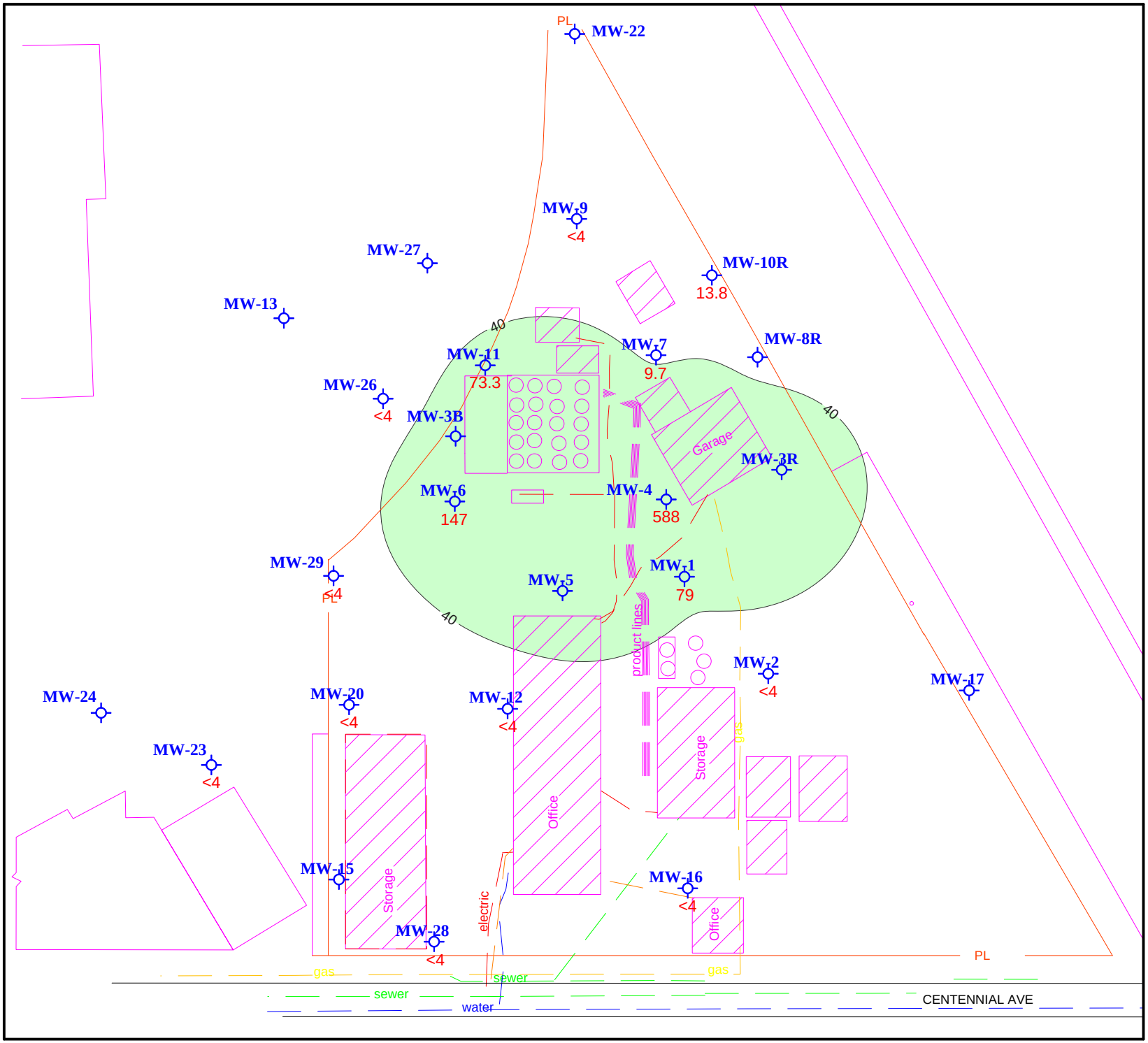
0ft 100ft

Figure 5 Project No 04-006

Contour Map Showing Benzene Concentration in the Upper Zone Groundwater, Q3-2016 (Units in ug/L)

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION



Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Sub Slab Soil Vapor Location
- Indoor Air Sample
- Recovery Well
- RISC RDCL
- RISC IDCL

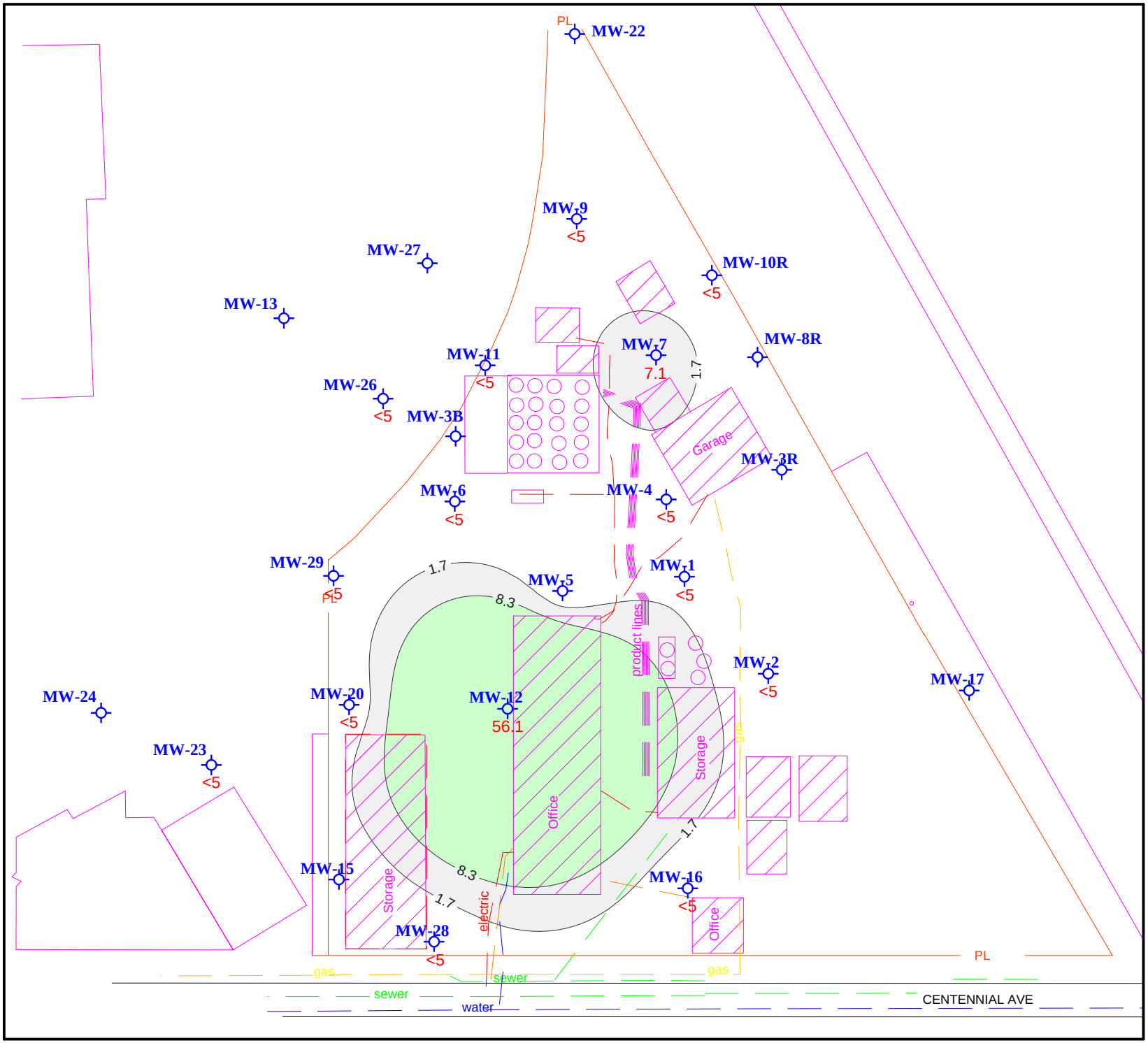
0ft 100ft

Figure 6 Project No 04-006

Contour Map Showing MTBE Concentrations in the Upper Zone Groundwater, Q3-2016 (Units in ug/L)

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION



Legend

- Monitoring Well
- Monitoring Well (Deep)
- Soil Boring
- Sub Slab Soil Vapor Location
- Indoor Air Sample
- Recovery Well
- RISC RDCL
- RISC IDCL

0ft 100ft

Figure 7 Project No 04-006

Contour Map Showing Naphthalene Concentrations in the Upper Zone Groundwater, Q3-2016 (Units in ug/L)

G & G Oil Company
220 East Centennial Avenue
Muncie, IN

Terra ENVIRONMENTAL CORPORATION

APPENDIX C: ANALYTICAL REPORTS

Laboratory Analytical Report

Chain of Custody

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

September 22, 2016

Mr. Rusty Wheat
Terra Environmental
20 Seumin Street
Brownsburg, IN 46112

RE: Project: G&G Bulk Plank
Pace Project No.: 50154166

Dear Mr. Wheat:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures

cc: Mr. Jason Stephens, Terra Environmental
Mr. Mike Wirt, Terra Environmental

REPORT OF LABORATORY ANALYSIS

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(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: G&G Bulk Plank
Pace Project No.: 50154166

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50154166001	**TRIP**	Water	09/13/16 08:00	09/14/16 17:28
50154166002	**MW1-GW091316-T**	Water	09/13/16 16:40	09/14/16 17:28
50154166003	**MW2-GW091316-T**	Water	09/13/16 16:50	09/14/16 17:28
50154166004	**MW4-GW091316-T**	Water	09/13/16 16:30	09/14/16 17:28
50154166005	**MW6-GW091316-T**	Water	09/13/16 15:20	09/14/16 17:28
50154166006	**MW7-GW091316-T**	Water	09/13/16 16:20	09/14/16 17:28
50154166007	**MW9-GW091316-T**	Water	09/13/16 17:00	09/14/16 17:28
50154166008	**MW10R-GW091316-T**	Water	09/13/16 16:10	09/14/16 17:28
50154166009	**MW11-GW091316-T**	Water	09/13/16 15:45	09/14/16 17:28
50154166010	**MW12-GW091316-T**	Water	09/13/16 17:20	09/14/16 17:28
50154166011	**MW12D-GW091316-T**	Water	09/13/16 17:20	09/14/16 17:28
50154166012	**MW16-GW091316-T**	Water	09/13/16 14:40	09/14/16 17:28
50154166013	**MW20-GW091316-T**	Water	09/13/16 14:20	09/14/16 17:28
50154166014	**MW23-GW091316-T**	Water	09/13/16 13:20	09/14/16 17:28
50154166015	**MW26-GW091316-T**	Water	09/13/16 17:40	09/14/16 17:28
50154166016	**MW28-GW091316-T**	Water	09/13/16 13:45	09/14/16 17:28
50154166017	**MW29-GW091316-T**	Water	09/13/16 14:55	09/14/16 17:28

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: G&G Bulk Plank
Pace Project No.: 50154166

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50154166001	**TRIP**	EPA 8260	RSW	9
50154166002	**MW1-GW091316-T**	EPA 8260	CAP	9
50154166003	**MW2-GW091316-T**	EPA 8260	CAP	9
50154166004	**MW4-GW091316-T**	EPA 8260	CAP	9
50154166005	**MW6-GW091316-T**	EPA 8260	CAP	9
50154166006	**MW7-GW091316-T**	EPA 8260	CAP	9
50154166007	**MW9-GW091316-T**	EPA 8260	CAP	9
50154166008	**MW10R-GW091316-T**	EPA 8260	CAP	9
50154166009	**MW11-GW091316-T**	EPA 8260	CAP	9
50154166010	**MW12-GW091316-T**	EPA 8260	CAP	9
50154166011	**MW12D-GW091316-T**	EPA 8260	CAP	9
50154166012	**MW16-GW091316-T**	EPA 8260	RSW	9
50154166013	**MW20-GW091316-T**	EPA 8260	DAE	9
50154166014	**MW23-GW091316-T**	EPA 8260	RSW	9
50154166015	**MW26-GW091316-T**	EPA 8260	DAE	9
50154166016	**MW28-GW091316-T**	EPA 8260	RSW	9
50154166017	**MW29-GW091316-T**	EPA 8260	RSW	9

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(317)228-3100

SUMMARY OF DETECTION

Project: G&G Bulk Plank
Pace Project No.: 50154166

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50154166002	**MW1-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	79.0	ug/L	4.0	09/21/16 14:45	
50154166004	**MW4-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	588	ug/L	40.0	09/21/16 04:09	
50154166005	**MW6-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	147	ug/L	4.0	09/21/16 15:20	
50154166006	**MW7-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	9.7	ug/L	4.0	09/21/16 05:18	
EPA 8260	Naphthalene	7.1	ug/L	5.0	09/21/16 05:18	
50154166007	**MW9-GW091316-T**					
EPA 8260	Benzene	31.4	ug/L	5.0	09/21/16 05:53	
50154166008	**MW10R-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	13.8	ug/L	4.0	09/21/16 06:27	
50154166009	**MW11-GW091316-T**					
EPA 8260	Methyl-tert-butyl ether	73.3	ug/L	4.0	09/21/16 07:01	
50154166010	**MW12-GW091316-T**					
EPA 8260	Benzene	1350	ug/L	50.0	09/21/16 08:44	
EPA 8260	Ethylbenzene	12.4	ug/L	5.0	09/21/16 08:10	
EPA 8260	Naphthalene	51.5	ug/L	5.0	09/21/16 08:10	
EPA 8260	Toluene	12.6	ug/L	5.0	09/21/16 08:10	
EPA 8260	Xylene (Total)	78.8	ug/L	10.0	09/21/16 08:10	
50154166011	**MW12D-GW091316-T**					
EPA 8260	Benzene	1450	ug/L	50.0	09/21/16 09:53	
EPA 8260	Ethylbenzene	13.4	ug/L	5.0	09/21/16 09:18	
EPA 8260	Naphthalene	56.1	ug/L	5.0	09/21/16 09:18	
EPA 8260	Toluene	12.8	ug/L	5.0	09/21/16 09:18	
EPA 8260	Xylene (Total)	83.6	ug/L	10.0	09/21/16 09:18	
50154166015	**MW26-GW091316-T**					
EPA 8260	Benzene	94.6	ug/L	5.0	09/21/16 20:56	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: TRIP **Lab ID: 50154166001** Collected: 09/13/16 08:00 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 19:54	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 19:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 19:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 19:54	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 19:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 19:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		09/21/16 19:54	1868-53-7	
Toluene-d8 (S)	102	%.	86-110	1		09/21/16 19:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	79-116	1		09/21/16 19:54	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW1-GW091316-T **Lab ID: 50154166002** Collected: 09/13/16 16:40 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 14:45	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 14:45	100-41-4	
Methyl-tert-butyl ether	**79.0**	ug/L	4.0	1		09/21/16 14:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 14:45	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 14:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 14:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 14:45	1868-53-7	
Toluene-d8 (S)	103	%.	86-110	1		09/21/16 14:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	79-116	1		09/21/16 14:45	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW2-GW091316-T **Lab ID: 50154166003** Collected: 09/13/16 16:50 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 03:01	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 03:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 03:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 03:01	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 03:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 03:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 03:01	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 03:01	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	79-116	1		09/21/16 03:01	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW4-GW091316-T **Lab ID: 50154166004** Collected: 09/13/16 16:30 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 03:35	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 03:35	100-41-4	
Methyl-tert-butyl ether	**588**	ug/L	40.0	10		09/21/16 04:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 03:35	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 03:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 03:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 03:35	1868-53-7	
Toluene-d8 (S)	103	%.	86-110	1		09/21/16 03:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	79-116	1		09/21/16 03:35	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW6-GW091316-T **Lab ID: 50154166005** Collected: 09/13/16 15:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 15:20	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 15:20	100-41-4	
Methyl-tert-butyl ether	**147**	ug/L	4.0	1		09/21/16 15:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 15:20	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 15:20	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 15:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		09/21/16 15:20	1868-53-7	
Toluene-d8 (S)	102	%.	86-110	1		09/21/16 15:20	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	79-116	1		09/21/16 15:20	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW7-GW091316-T **Lab ID: 50154166006** Collected: 09/13/16 16:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 05:18	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 05:18	100-41-4	
Methyl-tert-butyl ether	**9.7**	ug/L	4.0	1		09/21/16 05:18	1634-04-4	
Naphthalene	**7.1**	ug/L	5.0	1		09/21/16 05:18	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 05:18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 05:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 05:18	1868-53-7	
Toluene-d8 (S)	102	%.	86-110	1		09/21/16 05:18	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	79-116	1		09/21/16 05:18	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW9-GW091316-T **Lab ID: 50154166007** Collected: 09/13/16 17:00 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**31.4**	ug/L	5.0	1		09/21/16 05:53	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 05:53	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 05:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 05:53	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 05:53	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 05:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	84-118	1		09/21/16 05:53	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 05:53	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	79-116	1		09/21/16 05:53	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW10R-GW091316-T **Lab ID: 50154166008** Collected: 09/13/16 16:10 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 06:27	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 06:27	100-41-4	
Methyl-tert-butyl ether	**13.8**	ug/L	4.0	1		09/21/16 06:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 06:27	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 06:27	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 06:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		09/21/16 06:27	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 06:27	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	79-116	1		09/21/16 06:27	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW11-GW091316-T **Lab ID: 50154166009** Collected: 09/13/16 15:45 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 07:01	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 07:01	100-41-4	
Methyl-tert-butyl ether	**73.3**	ug/L	4.0	1		09/21/16 07:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 07:01	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 07:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 07:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 07:01	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 07:01	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	79-116	1		09/21/16 07:01	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW12-GW091316-T **Lab ID: 50154166010** Collected: 09/13/16 17:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**1350**	ug/L	50.0	10		09/21/16 08:44	71-43-2	
Ethylbenzene	**12.4**	ug/L	5.0	1		09/21/16 08:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 08:10	1634-04-4	
Naphthalene	**51.5**	ug/L	5.0	1		09/21/16 08:10	91-20-3	
Toluene	**12.6**	ug/L	5.0	1		09/21/16 08:10	108-88-3	
Xylene (Total)	**78.8**	ug/L	10.0	1		09/21/16 08:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	84-118	1		09/21/16 08:10	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 08:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	79-116	1		09/21/16 08:10	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW12D-GW091316-T **Lab ID: 50154166011** Collected: 09/13/16 17:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**1450**	ug/L	50.0	10		09/21/16 09:53	71-43-2	
Ethylbenzene	**13.4**	ug/L	5.0	1		09/21/16 09:18	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 09:18	1634-04-4	
Naphthalene	**56.1**	ug/L	5.0	1		09/21/16 09:18	91-20-3	
Toluene	**12.8**	ug/L	5.0	1		09/21/16 09:18	108-88-3	
Xylene (Total)	**83.6**	ug/L	10.0	1		09/21/16 09:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		09/21/16 09:18	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 09:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	79-116	1		09/21/16 09:18	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW16-GW091316-T **Lab ID: 50154166012** Collected: 09/13/16 14:40 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 17:37	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 17:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 17:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 17:37	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 17:37	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 17:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		09/21/16 17:37	1868-53-7	
Toluene-d8 (S)	103	%.	86-110	1		09/21/16 17:37	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	79-116	1		09/21/16 17:37	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW20-GW091316-T **Lab ID: 50154166013** Collected: 09/13/16 14:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 20:23	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 20:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 20:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 20:23	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 20:23	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 20:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		09/21/16 20:23	1868-53-7	
Toluene-d8 (S)	98	%.	86-110	1		09/21/16 20:23	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	79-116	1		09/21/16 20:23	460-00-4	

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(317)228-3100

ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW23-GW091316-T **Lab ID: 50154166014** Collected: 09/13/16 13:20 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 18:11	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 18:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 18:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 18:11	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 18:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 18:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		09/21/16 18:11	1868-53-7	
Toluene-d8 (S)	101	%.	86-110	1		09/21/16 18:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	79-116	1		09/21/16 18:11	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW26-GW091316-T **Lab ID: 50154166015** Collected: 09/13/16 17:40 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**94.6**	ug/L	5.0	1		09/21/16 20:56	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 20:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 20:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 20:56	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 20:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 20:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		09/21/16 20:56	1868-53-7	
Toluene-d8 (S)	96	%.	86-110	1		09/21/16 20:56	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	79-116	1		09/21/16 20:56	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW28-GW091316-T **Lab ID: 50154166016** Collected: 09/13/16 13:45 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 18:46	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 18:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 18:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 18:46	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 18:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 18:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		09/21/16 18:46	1868-53-7	
Toluene-d8 (S)	104	%.	86-110	1		09/21/16 18:46	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	79-116	1		09/21/16 18:46	460-00-4	

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ANALYTICAL RESULTS

Project: G&G Bulk Plank
Pace Project No.: 50154166

Sample: MW29-GW091316-T **Lab ID: 50154166017** Collected: 09/13/16 14:55 Received: 09/14/16 17:28 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/21/16 19:20	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		09/21/16 19:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/21/16 19:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/21/16 19:20	91-20-3	
Toluene	ND	ug/L	5.0	1		09/21/16 19:20	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		09/21/16 19:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		09/21/16 19:20	1868-53-7	
Toluene-d8 (S)	103	%.	86-110	1		09/21/16 19:20	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	79-116	1		09/21/16 19:20	460-00-4	

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QUALITY CONTROL DATA

Project: G&G Bulk Plank
Pace Project No.: 50154166

QC Batch: 352367 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 50154166003, 50154166004, 50154166006, 50154166007, 50154166008, 50154166009, 50154166010, 50154166011

METHOD BLANK: 1629962 | Matrix: Water
Associated Lab Samples: 50154166003, 50154166004, 50154166006, 50154166007, 50154166008, 50154166009, 50154166010, 50154166011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	09/21/16 01:52	
Ethylbenzene	ug/L	ND	5.0	09/21/16 01:52	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/21/16 01:52	
Naphthalene	ug/L	ND	5.0	09/21/16 01:52	
Toluene	ug/L	ND	5.0	09/21/16 01:52	
Xylene (Total)	ug/L	ND	10.0	09/21/16 01:52	
4-Bromofluorobenzene (S)	%.	96	79-116	09/21/16 01:52	
Dibromofluoromethane (S)	%.	97	84-118	09/21/16 01:52	
Toluene-d8 (S)	%.	102	86-110	09/21/16 01:52	

LABORATORY CONTROL SAMPLE: 1629963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.6	97	76-122	
Ethylbenzene	ug/L	50	50.4	101	75-123	
Methyl-tert-butyl ether	ug/L	50	45.8	92	65-131	
Naphthalene	ug/L	50	55.5	111	65-134	
Toluene	ug/L	50	51.2	102	74-122	
Xylene (Total)	ug/L	150	153	102	75-127	
4-Bromofluorobenzene (S)	%.			93	79-116	
Dibromofluoromethane (S)	%.			99	84-118	
Toluene-d8 (S)	%.			101	86-110	

MATRIX SPIKE SAMPLE: 1629964

Parameter	Units	50154166006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	50	49.2	93	51-140	
Ethylbenzene	ug/L	ND	50	48.2	96	36-146	
Methyl-tert-butyl ether	ug/L	9.7	50	51.8	84	43-146	
Naphthalene	ug/L	7.1	50	56.5	99	38-141	
Toluene	ug/L	ND	50	48.8	95	44-140	
Xylene (Total)	ug/L	ND	150	140	94	35-146	
4-Bromofluorobenzene (S)	%.				96	79-116	
Dibromofluoromethane (S)	%.				97	84-118	
Toluene-d8 (S)	%.				101	86-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G&G Bulk Plank
Pace Project No.: 50154166

SAMPLE DUPLICATE: 1629965

Parameter	Units	50154166009 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	73.3	73.5	0	20	
Naphthalene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	96	94	2		
Dibromofluoromethane (S)	%.	98	98	0		
Toluene-d8 (S)	%.	101	102	1		

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QUALITY CONTROL DATA

Project: G&G Bulk Plank
Pace Project No.: 50154166

QC Batch: 352554 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 50154166013, 50154166015

METHOD BLANK: 1630725 | Matrix: Water
Associated Lab Samples: 50154166013, 50154166015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	09/21/16 13:50	
Ethylbenzene	ug/L	ND	5.0	09/21/16 13:50	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/21/16 13:50	
Naphthalene	ug/L	ND	5.0	09/21/16 13:50	
Toluene	ug/L	ND	5.0	09/21/16 13:50	
Xylene (Total)	ug/L	ND	10.0	09/21/16 13:50	
4-Bromofluorobenzene (S)	%.	94	79-116	09/21/16 13:50	
Dibromofluoromethane (S)	%.	105	84-118	09/21/16 13:50	
Toluene-d8 (S)	%.	96	86-110	09/21/16 13:50	

LABORATORY CONTROL SAMPLE: 1630726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.9	102	76-122	
Ethylbenzene	ug/L	50	53.3	107	75-123	
Methyl-tert-butyl ether	ug/L	50	48.6	97	65-131	
Naphthalene	ug/L	50	52.4	105	65-134	
Toluene	ug/L	50	51.3	103	74-122	
Xylene (Total)	ug/L	150	158	105	75-127	
4-Bromofluorobenzene (S)	%.			96	79-116	
Dibromofluoromethane (S)	%.			95	84-118	
Toluene-d8 (S)	%.			97	86-110	

MATRIX SPIKE SAMPLE: 1630728

Parameter	Units	50154388004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	8.8	50	57.6	98	51-140	
Ethylbenzene	ug/L	8.2	50	58.0	99	36-146	
Methyl-tert-butyl ether	ug/L	ND	50	46.2	92	43-146	
Naphthalene	ug/L	64.8	50	99.4	69	38-141	
Toluene	ug/L	57.9	50	91.0	66	44-140	
Xylene (Total)	ug/L	558	150	519	-26	35-146	MS
4-Bromofluorobenzene (S)	%.				97	79-116	
Dibromofluoromethane (S)	%.				95	84-118	
Toluene-d8 (S)	%.				100	86-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G&G Bulk Plank
Pace Project No.: 50154166

QC Batch: 352597 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 50154166001, 50154166002, 50154166005, 50154166012, 50154166014, 50154166016, 50154166017

METHOD BLANK: 1630943 | Matrix: Water
Associated Lab Samples: 50154166001, 50154166002, 50154166005, 50154166012, 50154166014, 50154166016, 50154166017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	09/21/16 14:11	
Ethylbenzene	ug/L	ND	5.0	09/21/16 14:11	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/21/16 14:11	
Naphthalene	ug/L	ND	5.0	09/21/16 14:11	
Toluene	ug/L	ND	5.0	09/21/16 14:11	
Xylene (Total)	ug/L	ND	10.0	09/21/16 14:11	
4-Bromofluorobenzene (S)	%.	97	79-116	09/21/16 14:11	
Dibromofluoromethane (S)	%.	102	84-118	09/21/16 14:11	
Toluene-d8 (S)	%.	101	86-110	09/21/16 14:11	

LABORATORY CONTROL SAMPLE: 1630944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.4	97	76-122	
Ethylbenzene	ug/L	50	55.0	110	75-123	
Methyl-tert-butyl ether	ug/L	50	55.3	111	65-131	
Naphthalene	ug/L	50	59.3	119	65-134	
Toluene	ug/L	50	52.3	105	74-122	
Xylene (Total)	ug/L	150	160	107	75-127	
4-Bromofluorobenzene (S)	%.			99	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			100	86-110	

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QUALIFIERS

Project: G&G Bulk Plank
Pace Project No.: 50154166

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G&G Bulk Plank
Pace Project No.: 50154166

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50154166001	**TRIP**	EPA 8260	352597		
50154166002	**MW1-GW091316-T**	EPA 8260	352597		
50154166003	**MW2-GW091316-T**	EPA 8260	352367		
50154166004	**MW4-GW091316-T**	EPA 8260	352367		
50154166005	**MW6-GW091316-T**	EPA 8260	352597		
50154166006	**MW7-GW091316-T**	EPA 8260	352367		
50154166007	**MW9-GW091316-T**	EPA 8260	352367		
50154166008	**MW10R-GW091316-T**	EPA 8260	352367		
50154166009	**MW11-GW091316-T**	EPA 8260	352367		
50154166010	**MW12-GW091316-T**	EPA 8260	352367		
50154166011	**MW12D-GW091316-T**	EPA 8260	352367		
50154166012	**MW16-GW091316-T**	EPA 8260	352597		
50154166013	**MW20-GW091316-T**	EPA 8260	352554		
50154166014	**MW23-GW091316-T**	EPA 8260	352597		
50154166015	**MW26-GW091316-T**	EPA 8260	352554		
50154166016	**MW28-GW091316-T**	EPA 8260	352597		
50154166017	**MW29-GW091316-T**	EPA 8260	352597		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A Required Client Information:

Company:	Terra Environmental Corporation
Address:	20 Seumin St
	Brownsburg, IN 46112
Email To:	rwheat@ameritech.net
Phone: 317-858-1858	Fax: 317-858-1896
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Rusty Wheat
Copy To:	Mike Wirt
	Jason Stephens
Purchase Order No.:	
Project Name:	G & G Bulk Plant
Project Number:	04-006

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER VRP

Site Location STATE: IN

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) BTEX/MTBE	Naphthalene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TRIP	WT	G			09/13/16	8:00		3				3					X	X		001
2	MW1-GW091316-T	WT	G			09/13/16	16:40		3				3					X	X		002
3	MW2-GW091316-T	WT	G			09/13/16	16:50		3				3					X	X		003
4	MW4-GW091316-T	WT	G			09/13/16	16:30		3				3					X	X		004
5	MW6-GW091316-T	WT	G			09/13/16	16:20		3				3					X	X		005
6	MW7-GW091316-T	WT	G			09/13/16	16:20		3				3					X	X		006
7	MW9-GW091316-T	WT	G			09/13/16	17:50		3				3					X	X		007
8	MW10R-GW091316-T	WT	G			09/13/16	16:10		3				3					X	X		008
9	MW11-GW091316-T	WT	G			09/13/16	15:45		3				3					X	X		009
10	MW12-GW091316-T	WT	G			09/13/16	17:20		3				3					X	X		010
11	MW12D-GW091316-T	WT	G			09/13/16	17:20		3				3					X	X		011
12	MW16-GW091316-T	WT	G			09/13/16	14:40		3				3					X	X		012

5015 4466 K.J.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	9/13/16	20:00	[signature]	9/13/16	20:00				
	[signature]	9/14/16	14:10	[signature]	9/14/16	14:10				
	[signature] Pace	9/14/16	17:28	[signature]	9/14/16	17:28	1.6	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Wheat

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-13-16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:

Company:	Terra Environmental Corporation
Address:	20 Seumin St
	Brownsburg, IN 46112
Email To:	rwheat@ameritech.net
Phone: 317-858-1858	Fax: 317-858-1896
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Rusty Wheat
Copy To:	Mike Wirt
	Jason Stephens
Purchase Order No.:	
Project Name:	G & G Bulk Plant
Project Number:	04-006

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER VRP

Site Location STATE: IN

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): BTEX/MTBE	Naphthalene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 50154166
1	MW20-GW091316-T	WT	G			09/13/16	14:20		3				3					X	X		013
2	MW23-GW091316-T	WT	G			09/13/16	13:20		3				3					X	X		014
3	MW26-GW091316-T	WT	G			09/13/16	17:40		3				3					X	X		015
4	MW28-GW091316-T	WT	G			09/13/16	13:45		3				3					X	X		016
5	MW29-GW091316-T	WT	G			09/13/16	14:55		3				3					X	X		017
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	9/13/16	20:00	[signature]	9/13/16	20:00
	[signature]	9/14/16	1430	[signature] Pace	9/14/16	1450
	[signature] Pace	9/14/16		[signature]	9/14/16	1728

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Wheat

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-13-16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: TERRA ENV Project # 50154466

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other FOAM

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.6/1.6

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MS 9-14-16

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
~~Residual Chlorine Check (SVOC 625 Pest/PCB 608)~~		11. ~~Present~~ ~~Absent~~
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	13 MW 10R (1-vial)
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 9/15/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: TERRA ENV

COC PAGE 1 of 2

COC ID#

Project # 30154166

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R Bulk Kit 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Si/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3							Trip Blank													WT			
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: TERRA ENV

COC PAGE 2 of 2

COC ID# _____

Project # 50154466

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R Bulk Kit 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Sl/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3																				WT			
2	↓																				↓			
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

APPENDIX D: GROUNDWATER SAMPLING STABILIZATION DATA

Product Name: Low-Flow System

Date: 2016-09-13 16:52:31

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 34.07"		
Longitude	-85° -23' -2.34"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	9 ft

Well Information:		Pumping Information:	
Well ID	MW2	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	14 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	2.49 ft	Total Volume Pumped	1.733 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	16:47:30	260.02	69.52	7.53	1014.26	--	--	2.52	166.09
Last 5	16:48:35	325.02	68.89	7.48	1016.41	--	2.49	2.49	158.39
Last 5	16:49:40	390.02	68.67	7.43	1022.88	--	--	2.50	152.04
Last 5	16:50:45	455.02	68.74	7.39	1024.08	--	--	2.61	147.96
Last 5	16:51:50	520.02	68.71	7.35	1022.98	--	2.49	2.63	143.95
Variance 0			-0.22	-0.05	6.47			0.02	-6.35
Variance 1			0.08	-0.04	1.20			0.11	-4.08
Variance 2			-0.04	-0.04	-1.10			0.02	-4.01

Notes

16:50

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 15:15:48

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 34.91"		
Longitude	-85° -23' -5.24"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	9 ft

Well Information:		Pumping Information:	
Well ID	MW6	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	16 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	4 in
Depth to Water	2.15 ft	Total Volume Pumped	1.733 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	15:09:55	260.02	76.08	6.69	22875.71	--	--	1.43	-17.78
Last 5	15:11:00	325.02	75.92	6.67	22449.70	--	--	1.48	-15.65
Last 5	15:12:05	390.02	76.08	6.66	22024.77	--	--	1.66	-13.60
Last 5	15:13:10	455.02	76.41	6.66	21242.31	--	--	1.74	-12.00
Last 5	15:14:15	520.02	76.55	6.68	20058.77	--	2.15	1.77	-10.23
Variance 0			0.16	-0.01	-424.93			0.19	2.05
Variance 1			0.33	0.00	-782.46			0.07	1.60
Variance 2			0.14	0.02	-1183.54			0.03	1.77

Notes

15:15

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 16:08:25

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO675.SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.17 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 36.62"		
Longitude	-85° -23' -2.98"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	12 ft

Well Information:		Pumping Information:	
Well ID	MW10R	Final Pumping Rate	200 mL/min
Well diameter	.75 in	Total System Volume	0.1953513 L
Well Total Depth	16 ft	Calculated Sample Rate	58 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	8.19 ft	Total Volume Pumped	3.09 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	16:03:53	696.03	79.64	7.36	1038.90	--	--	84.87	58.39
Last 5	16:04:50	754.02	79.72	7.37	1055.34	--	--	85.47	61.33
Last 5	16:05:49	812.03	79.76	7.38	1013.37	--	--	86.08	63.95
Last 5	16:06:46	869.99	79.77	7.38	1010.72	--	--	86.56	67.22
Last 5	16:07:44	927.99	80.01	7.39	1008.31	--	8.19	86.92	70.17
Variance 0			0.04	0.01	-41.97			0.61	2.62
Variance 1			0.01	0.01	-2.65			0.48	3.27
Variance 2			0.24	0.01	-2.41			0.37	2.94

Notes

16:10

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 15:44:38

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 35.95"		
Longitude	-85° -23' -4.92"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW11	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	16 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	7.23 ft	Total Volume Pumped	1.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	15:39:27	130.02	71.39	7.61	1245.57	--	--	0.87	24.57
Last 5	15:40:32	195.02	71.40	7.54	1253.00	--	--	0.83	22.53
Last 5	15:41:37	260.02	71.29	7.48	1265.47	--	--	0.73	20.60
Last 5	15:42:42	325.02	71.15	7.44	1273.06	--	--	0.70	19.04
Last 5	15:43:47	390.02	71.00	7.39	1280.93	--	7.23	0.61	17.34
Variance 0			-0.11	-0.06	12.47			-0.10	-1.93
Variance 1			-0.14	-0.04	7.59			-0.03	-1.56
Variance 2			-0.15	-0.05	7.87			-0.09	-1.69

Notes

15:45

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 17:17:45

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 33.57"		
Longitude	-85° -23' -5.09"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	9 ft

Well Information:		Pumping Information:	
Well ID	MW12	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	12 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	4 in
Depth to Water	4.89 ft	Total Volume Pumped	3.791 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	17:12:56	195.02	69.01	7.15	1021.90	--	--	1.80	8.94
Last 5	17:14:01	260.02	69.09	7.14	1020.79	--	--	1.60	-8.22
Last 5	17:15:06	325.03	69.15	7.12	1018.41	--	--	1.46	-21.62
Last 5	17:16:11	390.03	69.16	7.11	1021.08	--	--	1.36	-29.64
Last 5	17:17:16	455.03	69.39	7.10	1021.73	--	4.89	1.31	-37.27
Variance 0			0.06	-0.01	-2.38			-0.14	-13.40
Variance 1			0.01	-0.01	2.67			-0.11	-8.02
Variance 2			0.23	-0.01	0.65			-0.05	-7.63

Notes

17:20

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 14:37:20

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 32.26"		
Longitude	-85° -23' -3.48"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW16	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	17 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	2.82 ft	Total Volume Pumped	4.333 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:32:29	260.02	82.46	7.28	1006.98	--	--	3.77	120.30
Last 5	14:33:34	325.03	82.25	7.25	1010.13	--	--	3.03	114.31
Last 5	14:34:39	390.03	82.16	7.22	1010.52	--	--	2.73	109.82
Last 5	14:35:44	455.06	82.00	7.20	1008.52	--	--	2.65	107.18
Last 5	14:36:49	520.03	81.84	7.18	1009.10	--	2.82	2.70	105.11
Variance 0			-0.09	-0.03	0.39			-0.30	-4.49
Variance 1			-0.16	-0.02	-2.00			-0.08	-2.64
Variance 2			-0.16	-0.02	0.59			0.06	-2.06

Notes

14:40

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 14:19:24

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 32.1"		
Longitude	-85° -23' -5.35"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW20	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	19.5 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	2.21 ft	Total Volume Pumped	3.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:14:40	130.03	87.41	7.75	165.34	--	--	49.67	129.10
Last 5	14:15:45	195.02	87.54	7.72	161.57	--	--	50.18	116.65
Last 5	14:16:50	260.03	87.50	7.71	160.65	--	--	50.22	107.27
Last 5	14:17:55	325.02	87.50	7.69	160.19	--	2.21	50.31	102.60
Last 5	14:19:00	390.02	87.50	7.64	159.35	--	--	50.54	100.31
Variance 0			-0.04	-0.01	-0.92			0.05	-9.38
Variance 1			0.00	-0.02	-0.46			0.08	-4.66
Variance 2			-0.00	-0.04	-0.83			0.24	-2.30

Notes

14:20

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 13:19:45

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO1.66SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.25 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 33.11"		
Longitude	-85° -23' -7.46"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	10 ft

Well Information:		Pumping Information:	
Well ID	MW23	Final Pumping Rate	500 mL/min
Well diameter	2 in	Total System Volume	0.5477909 L
Well Total Depth	17 ft	Calculated Sample Rate	65 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	3.23 ft	Total Volume Pumped	1.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	13:14:47	130.02	81.55	6.66	4715.19	--	--	2.84	37.94
Last 5	13:15:52	195.03	81.67	6.65	4702.99	--	--	2.60	32.32
Last 5	13:16:57	260.01	81.74	6.64	4694.39	--	--	2.41	27.52
Last 5	13:18:02	325.03	81.83	6.62	4701.13	--	--	2.34	24.18
Last 5	13:19:07	390.02	82.01	6.61	4694.26	--	3.23	2.22	21.12
Variance 0			0.07	-0.01	-8.59			-0.19	-4.80
Variance 1			0.09	-0.01	6.73			-0.07	-3.34
Variance 2			0.18	-0.01	-6.86			-0.11	-3.06

Notes

13:20

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 13:45:59

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO675.SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.17 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 32.24"		
Longitude	-85° -23' -5.37"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	9 ft

Well Information:		Pumping Information:	
Well ID	MW28	Final Pumping Rate	200 mL/min
Well diameter	.75 in	Total System Volume	0.1953513 L
Well Total Depth	12 ft	Calculated Sample Rate	58 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	3.86 ft	Total Volume Pumped	1.74 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	13:40:49	290.02	79.85	7.05	1547.82	--	--	2.13	55.04
Last 5	13:41:47	348.03	79.68	7.01	1554.38	--	--	1.93	55.31
Last 5	13:42:45	406.02	79.49	6.97	1558.17	--	--	1.76	55.77
Last 5	13:43:43	464.02	79.51	6.94	1564.67	--	--	1.74	56.43
Last 5	13:44:41	522.02	79.44	6.92	1565.36	--	3.86	1.87	57.22
Variance 0			-0.19	-0.03	3.80			-0.18	0.46
Variance 1			0.02	-0.04	6.50			-0.02	0.66
Variance 2			-0.08	-0.02	0.69			0.14	0.79

Notes

13:45

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 14:55:30

Project Information:		Pump Information:	
Operator Name	Cody Wheat	Pump Model/Type	GEO675.SS18
Company Name	Terra Environmental Corp	Tubing Type	Poly
Project Name	04-006	Tubing Diameter	.17 in
Site Name	G & G Bulk Plant	Tubing Length	15 ft
Latitude	40° 12' 34.73"		
Longitude	-85° -23' -6.17"		
Sonde SN	401423		
Turbidity Make/Model		Pump placement from TOC	11 ft

Well Information:		Pumping Information:	
Well ID	MW29	Final Pumping Rate	200 mL/min
Well diameter	.75 in	Total System Volume	0.1953513 L
Well Total Depth	16 ft	Calculated Sample Rate	58 sec
Screen Length	10 ft	Stabilization Drawdown	0 in
Depth to Water	5.75 ft	Total Volume Pumped	1.546 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp F	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO %Sat	ORP mV
Stabilization			+/- 3%	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	14:50:46	232.03	72.44	6.40	19225.65	--	--	1.77	47.29
Last 5	14:51:44	290.02	72.04	6.46	19357.66	--	--	1.56	21.49
Last 5	14:52:42	348.02	71.88	6.51	19468.06	--	--	1.40	5.74
Last 5	14:53:40	406.02	71.67	6.55	19528.93	--	--	1.25	-8.43
Last 5	14:54:38	464.02	71.64	6.58	19647.22	--	5.75	1.17	-19.64
Variance 0			-0.16	0.05	110.40			-0.16	-15.76
Variance 1			-0.21	0.04	60.87			-0.16	-14.16
Variance 2			-0.03	0.03	118.30			-0.08	-11.21

Notes

14:55

Grab Samples