Advantage Environmental Consultants, LLC

Quarterly Groundwater Monitoring Report
UST Pit Venting Activity Summary
Fourth Quarter – 2011

Gasoline Fueling Station – Royal Farms #1
2620 Mountain Road, Joppa, MD 21085
MDE Case No. 2005-0357-HA
MDE Facility ID 3965

AEC Project Number: 05-056RF001

Prepared for:
Maryland Department of the Environment
Oil Control Program
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And

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Baltimore, Maryland 21211

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January 27, 2012

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Quarterly Groundwater Monitoring Report
UST Pit Venting Activity Summary

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Reviewed by: Jeffery S. Stein, P.G.
Title: Principal

Introduction

As required, Advantage Environmental Consultants (AEC) has completed quarterly sampling of the groundwater monitoring wells, tank pit observation wells, and potable drinking water well system in response to Subtitle 10 Oil Pollution and Tank Management, 26.10.02.03-4 (the "Final Emergency Regulation") and correspondence from the Maryland Department of the Environment (MDE) dated September 7, 2006, January 23, 2008, August 12, 2009, April 6, 2011, and June 21, 2011. In addition to the quarterly groundwater sampling, the site's tank pit observation wells were gauged monthly.

Only one on-Site drinking water supply well is currently in use at the Site (HA094-1328, drilled to a depth of 645 feet). The other on-Site drinking water supply well is currently out of use (HA-94-0892, drilled to a depth of 350 feet).

The following is a description and summary of the results of the recent groundwater sampling effort and Underground Storage Tank (UST) pit venting activities. Figure 1 in Attachment A illustrates the site vicinity. Figure 2 in Attachment A illustrates the groundwater monitoring and tank pit observation well locations.

Groundwater Sampling and Analysis

The monitoring well, tank pit observation well and drinking water samples were collected on December 22, 2011. All samples were analyzed according to Environmental Protection Agency (EPA) protocols. Groundwater samples were collected from the monitoring wells and tank pit observation wells by first gauging and purging at least three well volumes using a stainless steel bailer, which was cleaned (liquinox and water rinse) prior to use in each well. After purging, each well was allowed to recharge for a period of at least one hour prior to sampling. The well samples were collected using a dedicated, disposable sampling bailer. The drinking water samples were obtained after purging the system for 15 minutes and were collected from the point of entry for the granular activated carbon (GAC) treatment system's influent (PW-1), first mid-point (PW-2a), second mid-point (PW-2b) and effluent (PW-3). Table 1 in Attachment B provides current and historical groundwater elevation data. The weekly/monthly tank pit observation well gauging data is also presented in Table 1. Figure 3 in Attachment A illustrates the groundwater flow direction on the day of the sampling event.

The samples were transferred directly into the appropriate sample containers. The sample from each location was placed in 40-milliliter glass jars with teflon-lined septa and/or one-liter amber glass jars. The sample containers were preserved with hydrochloric acid, as appropriate. Once collected, the samples were placed on ice in a cooler to await shipment to the laboratory.

Groundwater samples collected from the monitoring wells and tank pit observation wells were analyzed for volatile organic compounds (VOCs) including fuel oxygenates per EPA Analytical Method 8260 and Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) per EPA Analytical Method 8015B. Groundwater samples collected from the potable drinking water well and carbon (GAC) treatment system were analyzed for VOCs including fuel oxygenates per EPA Analytical Method 524.2.

The results of the laboratory analysis indicate that elevated concentrations of VOCs, with respect to the regulatory standards (i.e., MDE Cleanup Standards for Type I and II Aquifers, June 2008), were detected in groundwater samples collected from monitoring wells (MW-1, MW-2, and MW-5) as well as both tank pit observation wells (TP-1 and TP-2). The results of the potable well analysis indicated all compounds were below regulatory standards (MDE Clean-up Standards for Type I and II Aquifers) with the exception of Naphthalene (1.1 ug/L) in potable well PW-1, and Chloroform (2.3 ug/L) in PW-3. Figure 4 in Attachment A summarizes the latest groundwater quality data. Table 2 in Attachment B summarizes current and historical groundwater analytical results. The laboratory analytical report is presented in Attachment C.

UST Pit Venting System Monitoring

The venting system consists of a vacuum blower with a moisture knock-out vessel connected via an underground piping system to both of the tank pit observation wells (TP-1 and TP-2) and MW-2. The venting system started operation on May 27, 2009. The system is operated at a fairly low vacuum and flow rate in an attempt to minimize water upwelling and associated masking of the screened interval to optimize vapor recovery.

Use of the venting system was temporarily discontinued on April 26, 2011 when it was placed on trial shutdown. As of the end of April 2011 the system has recovered a cumulative total of approximately 45.86 pounds of total volatile organics. Table 3 in Attachment B summarizes air flow, vapor concentration and recovery estimate results.

Attachment A

Figures

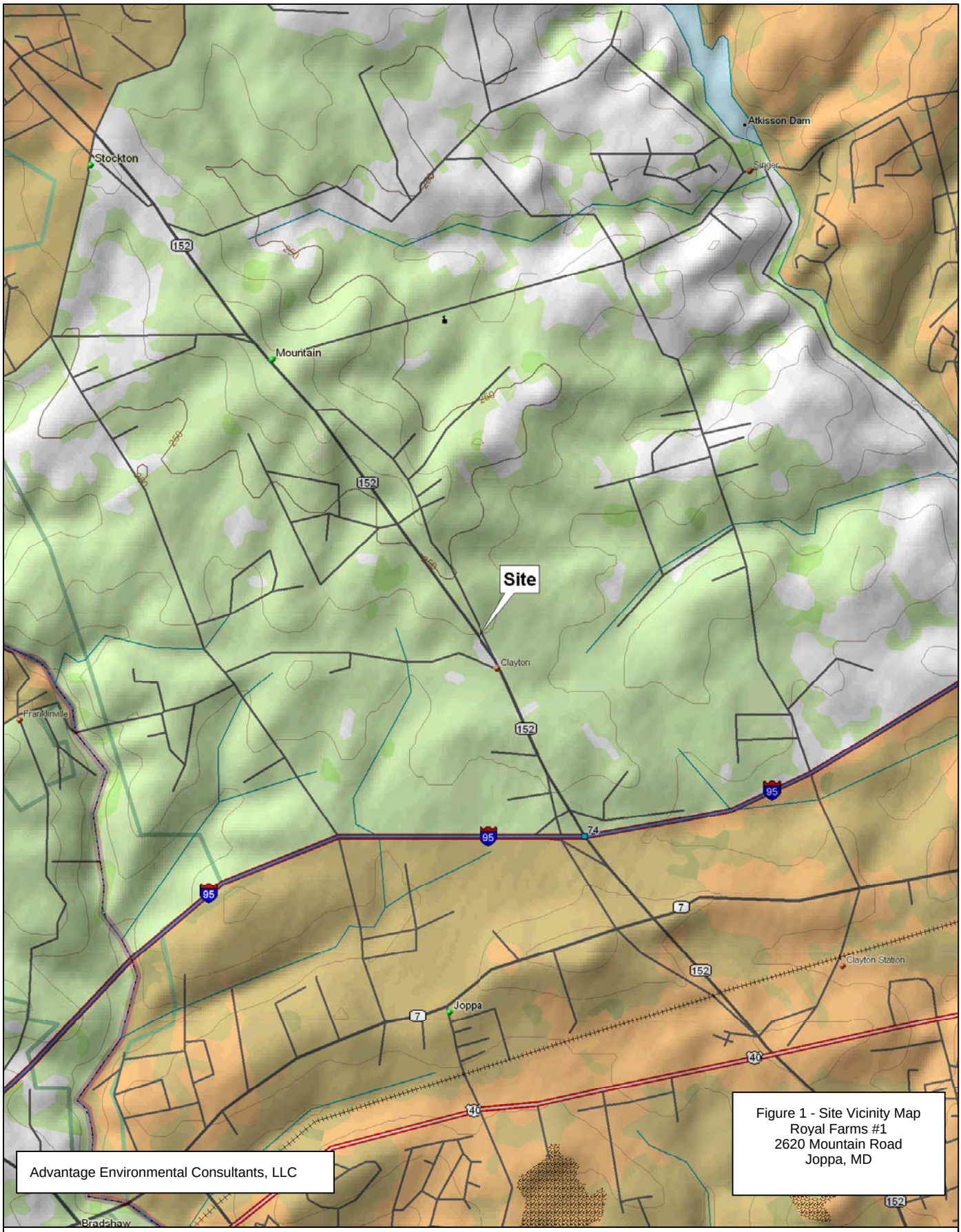

Figure 1 - Site Vicinity Map
Royal Farms #1
2620 Mountain Road
Joppa, MD

Advantage Environmental Consultants, LLC

DELORME

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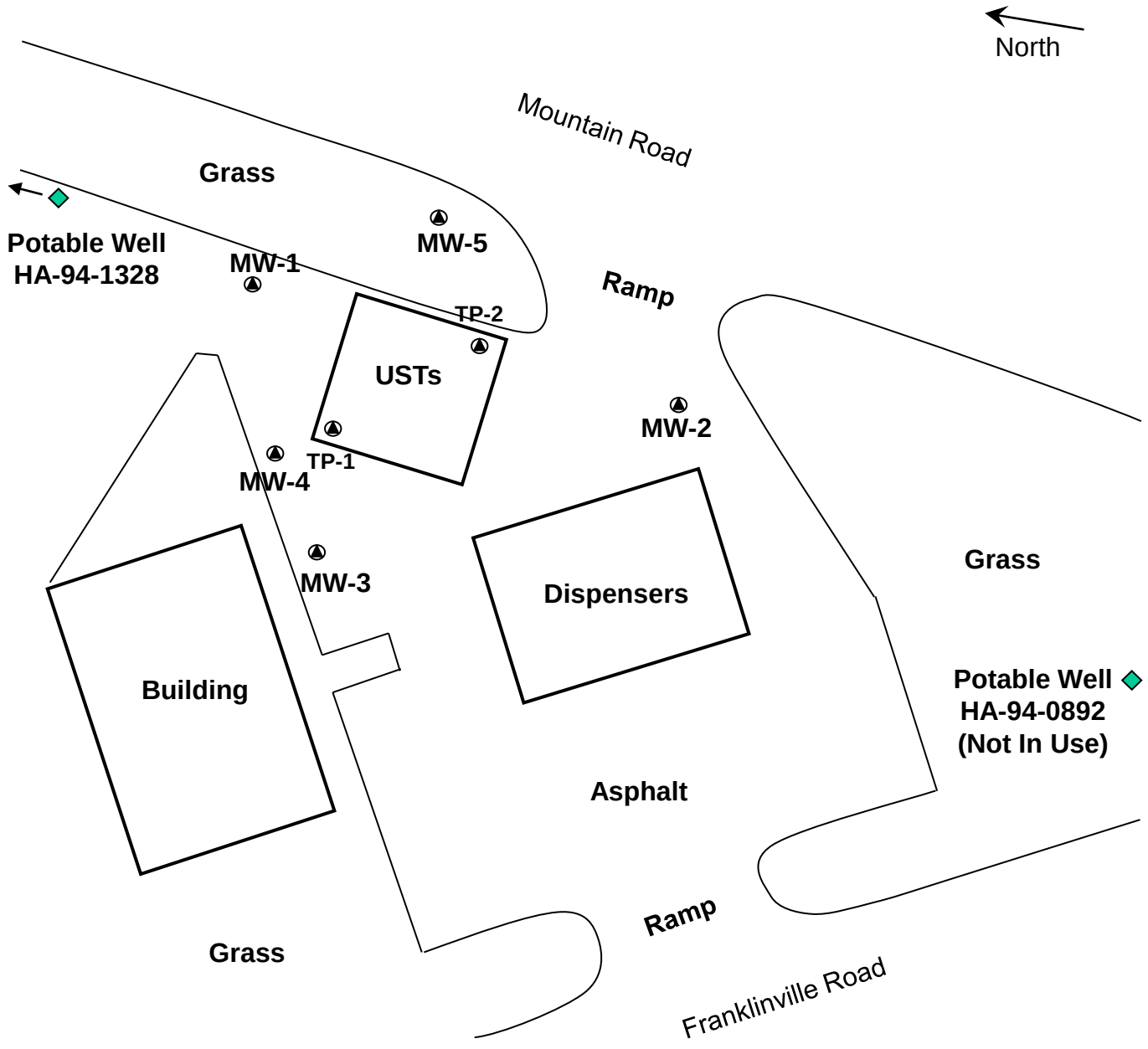
Zoom Level: 12-7 Datum: WGS84

Scale 1 : 28,125

1" = 2,343.75 ft

TN
MN
11.3°W



Potable Well

Monitoring Well/Tank Pit Well Location

Approximate Scale

0 (feet) 50

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Figure 2 – Site Map
Royal Farms Store #1
2620 Mountain Road
Joppa, Maryland

Work Order No.:	Report Date:	Drawn By:
05-056	January 2012	ALF

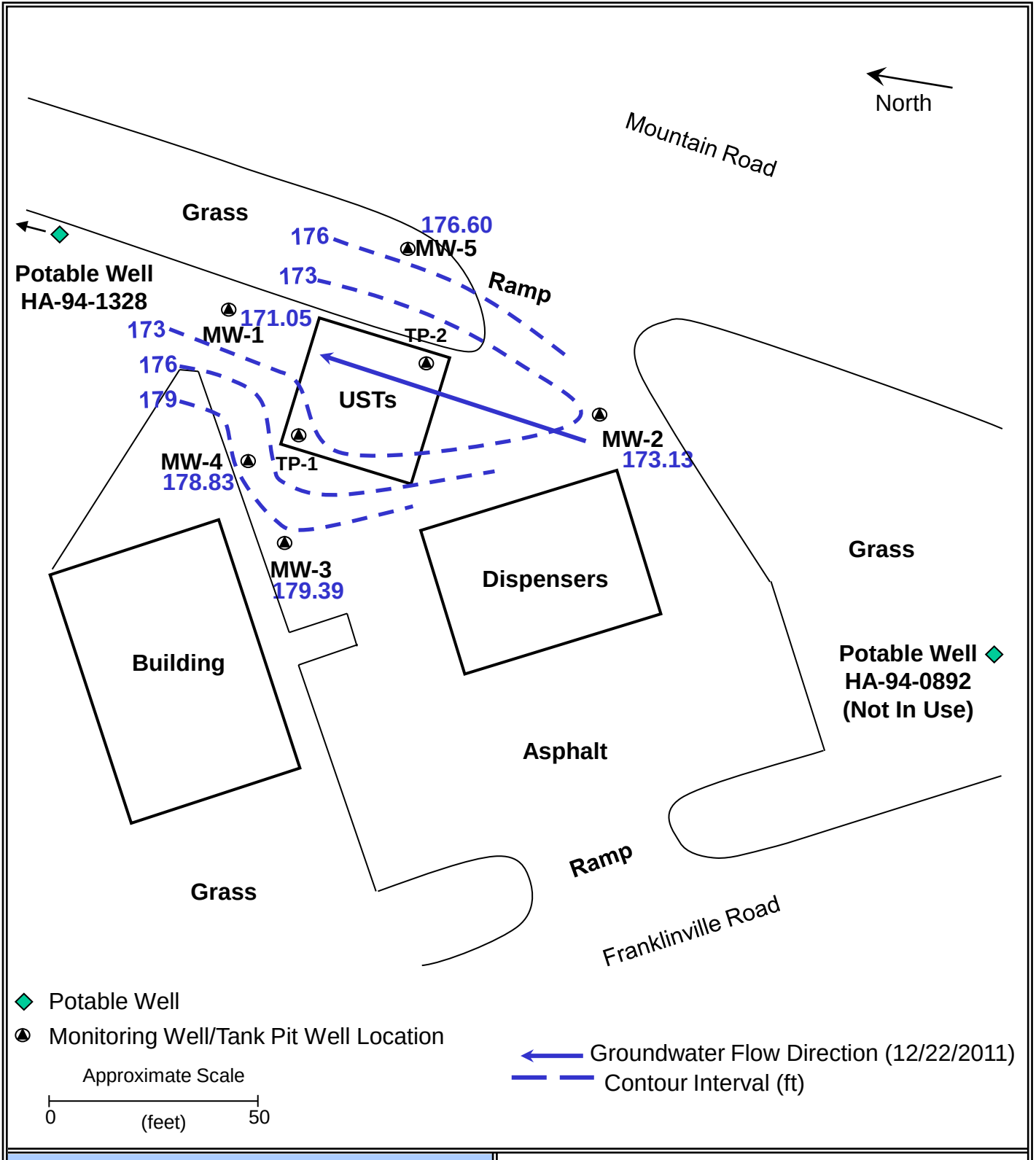

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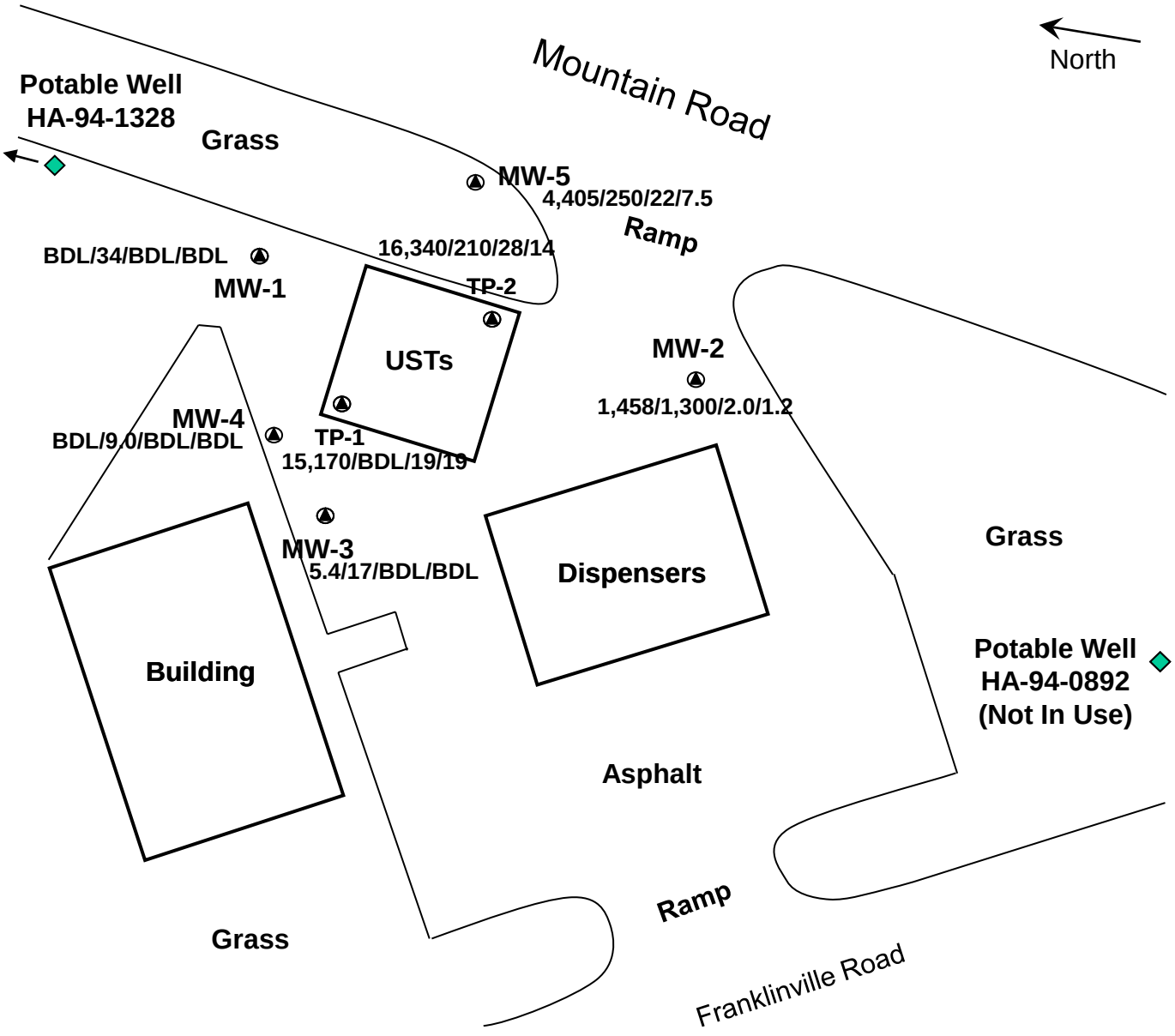
Figure 3 – Groundwater Gradient Map
Royal Farms Store #1
2620 Mountain Road
Joppa, Maryland

Work Order No.:	Report Date:	Drawn By:
05-056	January 2011	JDW



Potable Well

Monitoring Well/Tank Pit Well Location

Approximate Scale

0 (feet) 50

Samples collected on 12/22/2011
Samples analyzed for VOCs per EPA 8260 plus oxygenates
TPH GRO/DRO per EPA 8015
Total BTEX/MTBE/GRO/DRO
VOCs in ug/l or ppb/TPH in mg/l or ppm
BDL = Below Detection Limits
NS = Not Sampled

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Figure 4 – Groundwater Quality Map
Royal Farms Store #1
2620 Mountain Road
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Work Order No.:	Report Date:	Drawn By:
05-056	January 2012	ALF

Attachment B

Tables

Table 1 - Historical Groundwater Elevation Data
Gasoline Fueling Station – Royal Farms #1
2620 Mountain Road, Joppa, Maryland 21085

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
MW-1	7/9/2005	17.01	94.17	77.16	
	2/6/2006	18.11	94.17	76.06	
	6/29/2006	15.75	94.17	78.42	
	1/25/2007	17.23	94.17	76.94	
	1/26/2007	17.23	94.17	76.94	
	2/5/2007	17.29	94.17	76.88	
	2/12/2007	NG	94.17	NG	
	2/19/2007	NG	94.17	NG	
	2/21/2007	NG	94.17	NG	
	3/30/2007	NG	94.17	NG	
	4/23/2007	NG	94.17	NG	
	4/27/2007	NG	94.17	NG	
	7/25/2007	17.73	94.17	76.44	
	8/22/2007	17.92	94.17	76.25	
	9/12/2007	19.59	94.17	74.58	
	10/30/2007	20.83	94.17	73.34	
	1/29/2008	20.31	94.17	73.86	
	3/19/2008	17.91	94.17	76.26	
	5/29/2008	16.74	94.17	77.43	
	6/19/2008	15.55	94.17	78.62	
	9/30/2008	19.27	94.17	74.90	
	12/16/2008	20.05	94.17	74.12	
	3/25/2009	18.46	94.17	75.71	
	6/26/2009	15.31	94.17	78.86	
	9/28/2009	16.00	94.17	78.17	
	12/29/2009	16.19	94.17	77.98	
	3/31/2010	13.95	94.17	80.22	
	6/29/2010	16.00	94.17	78.17	
	9/28/2010	18.85	94.17	75.32	
	12/21/2010	18.87	94.17	75.30	
	3/28/2011	17.87	94.17	76.30	
	6/30/2011	15.36	186.19**	170.83**	
	8/8/2011	16.86	186.19	169.33	
	8/12/2011	16.90	186.19	169.29	
	8/13/2011	17.06	186.19	169.13	
	8/14/2011	17.11	186.19	169.08	
	8/15/2011	16.89	186.19	169.30	
	8/16/2011	16.71	186.19	169.48	
	9/8/2011	15.82	186.19	170.37	
	12/22/2011	15.14	186.19	171.05	
MW-2	7/9/2005	15.18	94.64	79.46	
	2/6/2006	16.57	94.64	78.07	
	6/29/2006	15.13	94.64	79.51	
	1/25/2007	15.62	94.64	79.02	
	1/26/2007	15.62	94.64	79.02	
	2/5/2007	15.67	94.64	78.97	
	2/12/2007	NG	94.64	NG	
	2/19/2007	NG	94.64	NG	
	2/21/2007	NG	94.64	NG	
	3/30/2007	NG	94.64	NG	
	4/23/2007	NG	94.64	NG	
	4/27/2007	NG	94.64	NG	
	7/25/2007	17.16	94.64	77.48	
	8/22/2007	17.64	94.64	77.00	
	9/12/2007	19.07	94.64	75.57	
	10/30/2007	20.42	94.64	74.22	
	1/29/2008	19.89	94.64	74.75	

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	3/19/2008	17.66	94.64	76.98	
	5/29/2008	15.90	94.64	78.74	
	6/19/2008	14.82	94.64	79.82	
	9/30/2008	18.50	94.64	76.14	
	12/16/2008	19.92	94.64	74.72	
	3/25/2009	18.33	94.87*	76.54	
	6/26/2009	6.76	94.87	88.11	
	9/28/2009	6.90	94.87	87.97	
	12/29/2009	7.72	94.87	87.15	
	3/31/2010	8.15	94.87	86.72	
	6/29/2010	13.98	94.87	80.89	
	9/28/2010	16.55	94.87	78.32	
	12/21/2010	16.45	94.87	78.42	Slight Odor
	3/28/2011	13.14	94.87	81.73	Slight Odor
	6/30/2011	10.62	186.04**	175.42**	
	8/8/2011	15.72	186.04	170.32	
	8/12/2011	16.11	186.04	169.93	
	8/13/2011	16.51	186.04	169.53	
	8/14/2011	16.49	186.04	169.55	
	8/15/2011	15.75	186.04	170.29	
	8/16/2011	16.08	186.04	169.96	
	9/8/2011	15.25	186.04	170.79	
	12/22/2011	12.91	186.04	173.13	Slight Odor
MW-3	7/9/2005	14.62	93.08	78.46	
	2/6/2006	15.51	93.08	77.57	
	6/29/2006	14.72	93.08	78.36	
	1/25/2007	15.63	93.08	77.45	
	1/26/2007	15.63	93.08	77.45	
	2/5/2007	15.67	93.08	77.41	
	2/12/2007	NG	93.08	NG	
	2/19/2007	NG	93.08	NG	
	2/21/2007	NG	93.08	NG	
	3/30/2007	NG	93.08	NG	
	4/23/2007	NG	93.08	NG	
	4/27/2007	NG	93.08	NG	
	7/25/2007	16.70	93.08	76.38	
	8/22/2007	16.98	93.08	76.10	
	9/12/2007	7.50	93.08	85.58	
	10/30/2007	6.69	93.08	86.39	
	1/29/2008	6.61	93.08	86.47	
	3/19/2008	5.81	93.08	87.27	
	5/29/2008	5.39	93.08	87.69	
	6/19/2008	5.05	93.08	88.03	
	9/30/2008	6.13	93.08	86.95	
	12/16/2008	6.26	93.08	86.82	
	3/25/2009	6.90	93.08	86.18	
	6/26/2009	4.79	93.08	88.29	
	9/28/2009	4.66	93.08	88.42	
	12/29/2009	3.82	93.08	89.26	
	3/31/2010	2.86	93.08	90.22	
	6/29/2010	4.45	93.08	88.63	
	9/28/2010	5.42	93.08	87.66	
	12/21/2010	5.42	93.08	87.66	
	3/28/2011	4.56	93.08	88.52	
	6/30/2011	5.57	185.65**	180.08**	
	8/8/2011	6.72	185.65	178.93	
	8/12/2011	6.99	185.65	178.66	
	8/13/2011	7.02	185.65	178.63	
	8/14/2011	6.99	185.65	178.66	
	8/15/2011	6.90	185.65	178.75	
	8/16/2011	6.88	185.65	178.77	
	9/8/2011	5.86	185.65	179.79	

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	12/22/2011	6.26	185.65	179.39	
MW-4	6/30/2011	6.73	185.64	178.91	
	8/8/2011	11.46	185.64	174.18	
	8/12/2011	11.73	185.64	173.91	
	8/13/2011	11.84	185.64	173.80	
	8/14/2011	11.81	185.64	173.83	
	8/15/2011	7.68	185.64	177.96	
	8/16/2011	6.58	185.64	179.06	
	9/8/2011	4.81	185.64	180.83	
	12/22/2011	6.81	185.64	178.83	
MW-5	6/30/2011	13.37	187.50	174.13	
	8/8/2011	16.76	187.50	170.74	
	8/12/2011	17.23	187.50	170.27	
	8/13/2011	17.49	187.50	170.01	
	8/14/2011	17.31	187.50	170.19	
	8/15/2011	17.45	187.50	170.05	
	8/16/2011	17.31	187.50	170.19	
	9/8/2011	14.80	187.50	172.70	Slight Sheen
	12/22/2011	10.90	187.50	176.60	Slight Odor
TP-1	7/9/2005	NG	NM	NM	
	2/6/2006	NG	NM	NM	
	6/29/2006	NG	NM	NM	
	1/25/2007	5.03	NM	NM	LPH (0.01 ft.)
	1/26/2007	5.03	NM	NM	LPH (0.01 ft.)
	2/5/2007	5.08	NM	NM	LPH (0.01 ft.)
	2/12/2007	6.97	NM	NM	LPH (0.01 ft.)
	2/19/2007	6.94	NM	NM	LPH (0.01 ft.)
	2/21/2007	6.21	NM	NM	LPH (0.01 ft.)
	3/30/2007	6.18	NM	NM	LPH (0.01 ft.)
	4/23/2007	8.47	NM	NM	LPH (0.01 ft.)
	4/27/2007	8.21	NM	NM	LPH (0.01 ft.)
	5/25/2007	6.65	NM	NM	Sheen
	6/1/2007	6.34	NM	NM	Sheen
	6/10/2007	6.25	NM	NM	Sheen
	6/15/2007	6.22	NM	NM	Sheen
	7/25/2007	6.54	NM	NM	Slight Sheen
	8/22/2007	6.89	NM	NM	Slight Sheen
	9/12/2007	7.40	NM	NM	Slight Sheen
	10/30/2007	6.55	NM	NM	Slight Sheen
	11/13/2007	6.69	NM	NM	Slight Sheen
	12/18/2007	6.55	NM	NM	Slight Sheen
	1/29/2008	6.48	NM	NM	Slight Sheen
	2/26/2008	6.07	NM	NM	
	3/19/2008	6.13	NM	NM	Slight Sheen
	4/24/2008	6.40	NM	NM	
	5/29/2008	5.44	NM	NM	Slight Sheen
	6/19/2008	5.61	NM	NM	Slight Sheen
	7/3/2008	5.90	NM	NM	
	7/11/2008	6.02	NM	NM	
	7/18/2008	6.01	NM	NM	
	7/25/2008	6.08	NM	NM	
	8/1/2008	6.19	NM	NM	
	8/15/2008	6.44	NM	NM	
	8/22/2008	6.68	NM	NM	
	8/27/2008	6.49	NM	NM	
	9/12/2008	6.55	NM	NM	
	9/18/2008	6.53	NM	NM	
	9/26/2008	6.63	NM	NM	
	9/30/2008	5.69	NM	NM	
	10/7/2008	5.87	NM	NM	Odor
	10/16/2008	6.51	NM	NM	Sheen/Odor

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	10/23/2008	6.48	NM	NM	Odor
	10/30/2008	5.99	NM	NM	Odor
	11/6/2008	6.28	NM	NM	
	11/11/2008	6.50	NM	NM	Sheen/Odor
	11/19/2008	5.89	NM	NM	Odor
	11/25/2008	6.18	NM	NM	Odor
	12/5/2008	6.18	NM	NM	Odor
	12/10/2008	6.19	NM	NM	Odor
	12/16/2008	5.76	NM	NM	Slight Sheen
	12/24/2008	5.59	NM	NM	Odor
	1/2/2009	5.92	NM	NM	Odor
	1/8/2009	5.63	NM	NM	Odor
	1/14/2009	5.98	NM	NM	Odor
	1/23/2009	5.90	NM	NM	Odor
	1/30/2009	6.03	NM	NM	Odor
	2/5/2009	6.00	NM	NM	Odor
	2/9/2009	5.98	NM	NM	Odor
	2/16/2009	6.12	NM	NM	Odor
	2/23/2009	6.29	NM	NM	Odor
	3/3/2009	6.38	NM	NM	Odor
	3/11/2009	6.42	NM	NM	Odor
	3/17/2009	6.39	NM	NM	Odor
	3/25/2009	6.59	NM	NM	Slight Sheen
	4/3/2009	6.08	NM	NM	Slight Sheen
	4/10/2009	5.11	NM	NM	Slight Sheen
	4/23/2009	4.50	NM	NM	Slight Sheen
	5/1/2009	4.82	NM	NM	
	5/6/2009	4.20	NM	NM	
	5/14/2009	4.29	NM	NM	
	5/21/2009	4.27	NM	NM	
	5/27/2009	4.31	NM	NM	
	6/3/2009	6.18	NM	NM	
	6/8/2009	6.15	NM	NM	
	6/18/2009	4.01	NM	NM	
	6/26/2009	4.09	NM	NM	
	7/2/2009	4.07	NM	NM	
	7/7/2009	4.19	NM	NM	
	7/17/2009	4.52	NM	NM	Slight Odor
	7/21/2009	4.04	NM	NM	
	8/27/2009	5.35	NM	NM	
	9/28/2009	3.48	NM	NM	Sheen/Odor
	10/30/2009	2.85	NM	NM	Slight Odor
	11/30/2009	2.94	NM	NM	Sheen/Odor
	12/29/2009	2.24	NM	NM	Slight Odor
	1/26/2010	NG	NM	NM	
	2/26/2010	1.34	NM	NM	Slight Odor
	3/31/2010	3.25	NM	NM	
	4/27/2010	1.67	NM	NM	
	5/25/2010	2.37	NM	NM	Slight Sheen
	6/29/2010	3.09	NM	NM	
	7/29/2010	3.51	NM	NM	
	8/31/2010	4.76	NM	NM	
	9/28/2010	3.13	NM	NM	
	10/28/2010	3.77	NM	NM	
	11/30/2010	4.84	NM	NM	
	12/21/2010	4.76	NM	NM	Mod. Odor
	1/4/2011	5.25	NM	NM	
	2/28/2011	3.60	NM	NM	Slight Sheen
	3/28/2011	3.07	NM	NM	Slight Odor
	4/26/2011	2.89	NM	NM	Mod. Odor
	5/25/2011	3.05	NM	NM	

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	6/30/2011	4.18	NM	NM	
	7/26/2011	5.12	NM	NM	
	8/8/2011	5.33	NM	NM	Slight Odor
	8/12/2011	12.19	NM	NM	Surfactant Odor
	8/13/2011	11.86	NM	NM	Surfactant Odor
	8/14/2011	11.11	NM	NM	Surfactant Odor
	8/15/2011	10.66	NM	NM	Surfactant Odor
	8/16/2011	10.33	NM	NM	Surfactant Odor
	9/8/2011	4.11	NM	NM	Slight sheen
	10/31/2011	3.87	NM	NM	
	11/21/2011	4.57	NM	NM	
	12/22/2011	3.91	NM	NM	Mod. Odor
TP-2	7/9/2005	NG	NM	NM	
	2/6/2006	NG	NM	NM	
	6/29/2006	NG	NM	NM	
	1/25/2007	5.05	NM	NM	LPH (0.02 ft.)
	1/26/2007	5.33	NM	NM	LPH (0.01 ft.)
	2/5/2007	5.09	NM	NM	LPH (0.01 ft.)
	2/12/2007	6.87	NM	NM	LPH (0.02 ft.)
	2/19/2007	6.85	NM	NM	LPH (0.02 ft.)
	2/21/2007	6.08	NM	NM	LPH (0.02 ft.)
	3/30/2007	6.03	NM	NM	LPH (0.02 ft.)
	4/23/2007	8.39	NM	NM	LPH (0.01 ft.)
	4/27/2007	8.20	NM	NM	LPH (0.01 ft.)
	5/25/2007	6.45	NM	NM	Sheen
	6/1/2007	6.17	NM	NM	Sheen
	6/10/2007	6.02	NM	NM	
	6/15/2007	6.03	NM	NM	
	7/25/2007	6.39	NM	NM	Slight Sheen
	8/22/2007	7.02	NM	NM	Slight Sheen
	9/12/2007	7.24	NM	NM	Slight Sheen
	10/30/2007	6.43	NM	NM	
	11/13/2007	6.51	NM	NM	Slight Sheen
	12/18/2007	6.49	NM	NM	Slight Sheen
	1/29/2008	6.30	NM	NM	Slight Sheen
	2/26/2008	5.81	NM	NM	
	3/19/2008	5.94	NM	NM	Slight Sheen
	4/24/2008	6.35	NM	NM	
	5/29/2008	5.27	NM	NM	Slight Sheen
	6/19/2008	5.44	NM	NM	Slight Sheen
	7/3/2008	5.73	NM	NM	
	7/11/2008	5.88	NM	NM	
	7/18/2008	5.86	NM	NM	
	7/25/2008	5.89	NM	NM	
	8/1/2008	6.00	NM	NM	
	8/15/2008	6.28	NM	NM	
	8/22/2008	6.47	NM	NM	
	8/27/2008	6.31	NM	NM	
	9/12/2008	6.38	NM	NM	
	9/18/2008	6.37	NM	NM	
	9/26/2008	6.48	NM	NM	
	9/30/2008	5.78	NM	NM	
	10/7/2008	5.61	NM	NM	
	10/16/2008	6.33	NM	NM	Sheen/Odor
	10/23/2008	6.57	NM	NM	Odor
	10/30/2008	5.83	NM	NM	Odor
	11/6/2008	6.12	NM	NM	
	11/11/2008	6.33	NM	NM	Sheen/Odor
	11/19/2008	5.47	NM	NM	Odor
	11/25/2008	6.01	NM	NM	Odor
	12/5/2008	6.03	NM	NM	Odor

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	12/10/2008	6.36	NM	NM	Odor
	12/16/2008	5.61	NM	NM	Sheen/Odor
	12/24/2008	5.42	NM	NM	Odor
	1/2/2009	5.74	NM	NM	Odor
	1/8/2009	5.45	NM	NM	Odor
	1/14/2009	5.77	NM	NM	Odor
	1/23/2009	5.71	NM	NM	Odor
	1/30/2009	5.86	NM	NM	Odor
	2/5/2009	5.83	NM	NM	Odor
	2/9/2009	5.91	NM	NM	
	2/16/2009	6.03	NM	NM	
	2/23/2009	6.21	NM	NM	
	3/3/2009	6.34	NM	NM	
	3/11/2009	6.36	NM	NM	
	3/17/2009	6.33	NM	NM	
	3/25/2009	6.52	NM	NM	Slight Sheen
	4/3/2009	6.02	NM	NM	Odor
	4/10/2009	5.03	NM	NM	Odor
	4/23/2009	4.42	NM	NM	Odor
	5/1/2009	4.60	NM	NM	
	5/6/2009	4.15	NM	NM	
	5/14/2009	4.23	NM	NM	
	5/21/2009	4.21	NM	NM	
	5/27/2009	4.37	NM	NM	
	6/3/2009	6.09	NM	NM	
	6/8/2009	6.04	NM	NM	
	6/18/2009	4.08	NM	NM	
	6/26/2009	4.01	NM	NM	
	7/2/2009	3.99	NM	NM	
	7/7/2009	4.13	NM	NM	
	7/17/2009	4.45	NM	NM	Slight Odor
	7/21/2009	3.98	NM	NM	
	8/27/2009	5.27	NM	NM	
	9/28/2009	3.40	NM	NM	Sheen/Odor
	10/30/2009	2.78	NM	NM	Sheen/Odor
	11/30/2009	2.85	NM	NM	Slight Odor
	12/29/2009	NG	NM	NM	
	1/26/2010	2.59	NM	NM	Slight Sheen
	2/26/2010	1.28	NM	NM	Slight Odor
	3/31/2010	1.25	NM	NM	
	4/27/2010	1.61	NM	NM	
	5/25/2010	2.29	NM	NM	
	6/29/2010	3.02	NM	NM	
	7/29/2010	3.42	NM	NM	
	8/31/2010	4.68	NM	NM	
	9/28/2010	3.07	NM	NM	
	10/28/2010	3.83	NM	NM	
	11/30/2010	4.75	NM	NM	Strong Odor
	12/21/2010	4.70	NM	NM	Mod. Odor
	1/4/2011	5.32	NM	NM	
	2/28/2011	3.65	NM	NM	Slight Sheen
	3/28/2011	3.02	NM	NM	Slight Odor
	4/26/2011	2.81	NM	NM	Slight Odor
	5/25/2011	2.98	NM	NM	Slight Odor
	6/30/2011	4.12	NM	NM	
	7/26/2011	5.03	NM	NM	
	8/8/2011	5.26	NM	NM	Slight Odor
	8/12/2011	12.13	NM	NM	Surfactant Odor
	8/13/2011	11.81	NM	NM	Surfactant Odor
	8/14/2011	11.05	NM	NM	Surfactant Odor
	8/15/2011	10.61	NM	NM	Surfactant Odor

Well No.	Date	Depth to Water	TOC Elevation	Water Elevation	Comments
	8/16/2011	10.27	NM	NM	Surfactant Odor
	9/8/2011	4.06	NM	NM	Slight sheen
	10/31/2011	3.81	NM	NM	
	11/21/2011	4.50	NM	NM	
	12/22/2011	3.83	NM	NM	sheen

All measurements in feet

TOC = Top of Casing

NM = Not Measured

NG = Not Gauged

LPH = Liquid Phase Hydrocaron

** = Change in the recorded elevation reflects a re-survey of all onsite wells using elevation from a *Site & Stormwater Plan* dated May 22, 1995. The southwestern corner of the dispenser island was used as a benchmark.

* = TOC Elevation change due to SVE Install

Table 2 - Historical Groundwater Analytical Results
Gasoline Fueling Station – Royal Farms #1
2620 Mountain Road, Joppa, Maryland 21085

Well No.	Date	B	T	E	X	Total BTEX	MTBE	TPH GRO	TPH DRO
MW-1	7/9/2005	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	2/6/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/29/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	7/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/30/2007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/29/2008	BDL	BDL	BDL	BDL	BDL	5.1	BDL	BDL
	3/19/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/19/2008	BDL	BDL	BDL	BDL	BDL	**500**	BDL	BDL
	9/30/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/16/2008	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/25/2009	BDL	BDL	BDL	BDL	BDL	**25**	BDL	BDL
	6/26/2009	BDL	BDL	BDL	BDL	BDL	**24**	BDL	BDL
	9/28/2009	BDL	14	BDL	20	34	9	BDL	BDL
	12/29/2009	BDL	BDL	BDL	BDL	BDL	**70**	BDL	BDL
	3/31/2010	BDL	BDL	BDL	BDL	BDL	**160**	BDL	BDL
	6/29/2010	BDL	BDL	BDL	BDL	BDL	**38**	BDL	BDL
	9/28/2010	BDL	BDL	BDL	BDL	BDL	**25**	BDL	BDL
	12/21/2010	BDL	BDL	BDL	BDL	BDL	**110**	BDL	BDL
	3/28/2011	BDL	BDL	BDL	BDL	BDL	**86**	BDL	BDL
	6/30/2011	BDL	BDL	BDL	BDL	BDL	16	BDL	BDL
	9/8/2011	BDL	BDL	BDL	11	11	**71**	BDL	BDL
	12/22/2011	BDL	BDL	BDL	BDL	BDL	**34**	BDL	BDL
MW-2	7/9/2005	BDL	BDL	BDL	BDL	BDL	**740**	NS	NS
	2/6/2006	BDL	BDL	BDL	BDL	BDL	**560**	NS	NS
	6/29/2006	BDL	BDL	BDL	BDL	BDL	**960**	NS	NS
	1/25/2007	**74**	BDL	25	11	110	**15,000**	BDL	BDL
	7/25/2007	**59**	BDL	BDL	BDL	59	**21,000**	BDL	BDL
	10/30/2007	**12**	BDL	BDL	BDL	12	**4,800**	BDL	BDL
	1/29/2008	**65**	BDL	51	150	266	**22,300**	BDL	**0.8**
	3/19/2008	**23**	BDL	93	89	205	**25,000**	BDL	BDL
	6/19/2008	**700**	200	**1,700**	1,080	3,680	**19,000**	**7.9**	**9.0**
	9/30/2008	**720**	19	**1,300**	261	2,300	**11,300**	**5.0**	**3.9**
	12/16/2008	**34**	BDL	48	24	106	**5,100**	**9.0**	**7.9**
	3/25/2009	**214**	18	400	56	688	**2,900**	**1.7**	BDL
	6/26/2009	**320**	**1100**	**800**	1500	3,720	**3000**	**6.0**	**3.4**
	9/28/2009	**19**	BDL	110	44	173	**160**	**0.5**	BDL
	12/29/2009	**350**	14	**920**	950	2234	**3,800**	**6.8**	**2.4**
	3/31/2010	**250**	10	**1100**	334	1694	**3,800**	**3.2**	**2.6**
	6/29/2010	**200**	6.6	620	357	1,184	**720**	**2.5**	**1.9**
	9/28/2010	**220**	14	**840**	453	1,527	**800**	**4.2**	**1.5**
	12/21/2010	**160**	7.5	**2800**	970	3,938	**1100**	**3.6**	**2.0**
	3/28/2011	**120**	BDL	**800**	BDL	920	**620**	**1.6**	**1.2**
	6/30/2011	**80**	BDL	500	84	664	**250**	**2.5**	**0.8**
	9/8/2011	**80**	7.5	370	51	508.5	**440**	**2.6**	**0.5**
	12/22/2011	**150**	BDL	**720**	588	1,458.0	**1300**	**2.0**	**1.2**
MW-3	7/9/2005	BDL	BDL	BDL	BDL	BDL	9.7	NS	NS
	2/6/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/29/2006	BDL	BDL	BDL	BDL	BDL	5.4	NS	NS
	1/25/2007	BDL	BDL	BDL	BDL	BDL	**91**	BDL	BDL
	7/25/2007	BDL	BDL	BDL	BDL	BDL	**220**	BDL	BDL
	10/30/2007	**9.6**	21	34	169	233.6	**74**	BDL	BDL
	1/29/2008	BDL	BDL	BDL	BDL	0	**66**	BDL	BDL
	3/19/2008	BDL	BDL	BDL	BDL	0	**63**	BDL	BDL
	6/19/2008	BDL	BDL	6.2	BDL	6.2	**66**	BDL	BDL
	9/30/2008	BDL	BDL	12	8.6	20.6	**100**	BDL	BDL
	12/16/2008	BDL	BDL	BDL	BDL	BDL	**80**	BDL	BDL
	3/25/2009	BDL	BDL	BDL	BDL	BDL	**56**	BDL	BDL
	6/26/2009	BDL	BDL	BDL	BDL	BDL	**32**	BDL	BDL

Well No.	Date	B	T	E	X	Total BTEX	MTBE	TPH GRO	TPH DRO
	9/28/2009	BDL	BDL	BDL	BDL	BDL	**26**	BDL	BDL
	12/29/2009	BDL	7.8	BDL	BDL	7.8	**33**	BDL	BDL
	3/31/2010	BDL	BDL	12	12	24	**150**	BDL	BDL
	6/29/2010	BDL	BDL	7.5	BDL	7.5	**61**	BDL	BDL
	9/28/2010	BDL	BDL	BDL	BDL	BDL	**32**	BDL	BDL
	12/21/2010	BDL	BDL	BDL	BDL	BDL	**28**	BDL	BDL
	3/28/2011	BDL	BDL	BDL	BDL	BDL	16	BDL	BDL
	6/30/2011	BDL	BDL	BDL	BDL	BDL	8.8	BDL	BDL
	9/8/2011	BDL	100	43	237	380	**28**	BDL	BDL
	12/22/2011	BDL	BDL	5.4	BDL	5.4	17	BDL	BDL
MW-4	6/30/2011	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/8/2011	BDL	BDL	BDL	9.3	9.3	BDL	BDL	BDL
	12/22/2011	BDL	BDL	BDL	BDL	BDL	9	BDL	BDL
MW-5	6/30/2011	**52**	260	680	4,100	5,092	BDL	**1.5**	**4.7**
	9/8/2011	**11**	BDL	120	72	203	**100**	**0.9**	BDL
	12/22/2011	**65**	540	**1100**	2,700	4405	**250**	**22.0**	**7.5**
TP-1	7/9/2005	NS	NS	NS	NS	NS	NS	NS	NS
	2/6/2006	NS	NS	NS	NS	NS	NS	NS	NS
	6/29/2006	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/2007	NS	NS	NS	NS	NS	NS	NS	NS
	7/25/2007	**2,700**	**43,500**	**7,300**	**21,500**	75,000	**100,000**	**24.0**	**21.0**
	10/30/2007	**2,300**	**28,000**	**6,400**	**24,100**	60,800	**29,000**	**28.0**	**330.0**
	1/29/2008	**1,400**	**25,000**	**5,500**	**19,400**	51,300	**27,000**	**23.0**	**100.0**
	3/19/2008	**1,100**	**29,600**	**6,600**	**28,000**	65,300	**12,100**	**27.0**	**110.0**
	6/19/2008	**1,500**	**30,000**	**6,400**	**19,000**	56,900	**14,500**	**29.0**	**57.0**
	9/30/2008	**970**	**22,000**	**2,000**	2,120	27,090	**13,000**	**60.0**	**35.0**
	12/16/2008	**420**	**19,500**	**5,500**	**17,400**	42,820	**4,900**	**110.0**	**78.0**
	3/25/2009	**830**	**21,000**	**6,900**	**24,400**	53,130	**17,000**	**130.0**	**28.0**
	6/26/2009	**450**	**12,000**	**2,600**	4,500	19,550	**2,300**	**50.0**	**22.0**
	9/28/2009	**44**	**1,600**	**900**	2,600	5144	**190**	**11.0**	**75.0**
	12/29/2009	**200**	**10,000**	**4,900**	**15,300**	30400	**570**	**27.0**	**3.0**
	3/31/2010	**97**	**2,900**	**2,400**	6,700	12097	**730**	**3.9**	**2.8**
	6/29/2010	**44**	**1,700**	**1,300**	4,000	7,044	**114**	**6.2**	**5.5**
	9/28/2010	BDL	70	85	490	645	BDL	**1.2**	BDL
	12/21/2010	**46**	1,000	**1,900**	5,200	8,100	BDL	**12.0**	**2.0**
	3/28/2011	**50**	610	**740**	1,380	2,730	BDL	**4.2**	**1.1**
	6/30/2011	**24**	630	**800**	1,660	3,114	**52**	**4.7**	**0.9**
	9/8/2011	**20**	340	700	2,320	3,380	BDL	**14.0**	**2.8**
	12/22/2011	**70**	**1,500**	**3,400**	**10,200**	15,170	BDL	**19.0**	**19.0**
TP-2	7/9/2005	NS	NS	NS	NS	NS	NS	NS	NS
	2/6/2006	NS	NS	NS	NS	NS	NS	NS	NS
	6/29/2006	NS	NS	NS	NS	NS	NS	NS	NS
	1/25/2007	NS	NS	NS	NS	NS	NS	NS	NS
	7/25/2007	**3,400**	**41,400**	**6,300**	**21,800**	72,900	**128,000**	**22.0**	**22.0**
	10/30/2007	**2,400**	**32,200**	**7,500**	**21,700**	63,800	**38,000**	**29.0**	**160.0**
	1/29/2008	**1,800**	**28,000**	**6,800**	**20,400**	57,000	**48,000**	**17.0**	**125.0**
	3/19/2008	**1,600**	**31,000**	**7,700**	**25,200**	65,500	**44,000**	**6.8**	**120.0**
	6/19/2008	**700**	**28,000**	**6,500**	**19,700**	54,900	**3,000**	**3.1**	**54.0**
	9/30/2008	**860**	**20,000**	**7,000**	**23,500**	51,360	**14,000**	**48.0**	**35.0**
	12/16/2008	**950**	**23,400**	**8,000**	**27,200**	59,550	**11,300**	**80.0**	**46.0**
	3/25/2009	**1,100**	**21,000**	**7,100**	**23,700**	52,900	**6,100**	**91.0**	**38.0**
	6/26/2009	**470**	**10,000**	**3,500**	5,800	19,770	**1,100**	**17.0**	**17.0**
	9/28/2009	**70**	**5,100**	**5,800**	**21,000**	31,970	**180**	**3.8**	**125.0**
	12/29/2009	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2010	**67**	**2,600**	**1,000**	2,140	5,807	**600**	**2.4**	**3.4**
	6/29/2010	**61**	**1,700**	**1,900**	5,800	9,461	**230**	**5.5**	**1.9**
	9/28/2010	**37**	**1,400**	620	3,600	5,657	**53**	**5.0**	**1.1**
	12/21/2010	**130**	**5,800**	**5,200**	**19,700**	30,830	BDL	**11.0**	**7.5**
	3/28/2011	**26**	340	520	1,604	2,490	BDL	**3.0**	**0.6**
	6/30/2011	**100**	**1,400**	**3,300**	7,700	12,500	BDL	**27.0**	**6.9**
	9/8/2011	**21**	330	660	2,170	3,181	BDL	**18.0**	**5.1**
	12/22/2011	**140**	**1,800**	**3,300**	**11,100**	16,340	**210**	**28.0**	**14.0**
Supply (PW-1)	6/29/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS

Well No.	Date	B	T	E	X	Total BTEX	MTBE	TPH GRO	TPH DRO
	1/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	7/25/2007	BDL	BDL	BDL	BDL	BDL	18	NS	NS
	10/30/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/29/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/12/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/19/2008	NS	NS	NS	NS	NS	NS	NS	NS
	9/30/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/16/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/25/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/26/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/29/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/31/2010	BDL	7.9	1.2	3.8	12.9	BDL	NS	NS
	6/29/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/21/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/28/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/30/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/8/2011	BDL	37	2.5	9.1	48.6	BDL	NS	NS
	12/22/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
Supply (PW-2a)	6/29/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	7/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	10/30/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/29/2008	BDL	BDL	BDL	BDL	BDL	1.8	NS	NS
	3/12/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/19/2008	NS	NS	NS	NS	NS	NS	NS	NS
	9/30/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/16/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/25/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/26/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/29/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/31/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/29/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/21/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/28/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/30/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/8/2011	NS	NS	NS	NS	NS	NS	NS	NS
	12/22/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
Supply (PW-2b)	3/28/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/30/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/8/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/22/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
Supply (PW-3)	7/9/2005	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	2/6/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/29/2006	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	7/25/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	10/30/2007	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	1/29/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/12/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/19/2008	NS	NS	NS	NS	NS	NS	NS	NS
	9/30/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/16/2008	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/25/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/26/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	12/29/2009	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/31/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/29/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/28/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS

Well No.	Date	B	T	E	X	Total BTEX	MTBE	TPH GRO	TPH DRO
	12/21/2010	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	3/28/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	6/30/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
	9/8/2011	BDL	9.8	4	19	32.8	BDL	NS	NS
	12/22/2011	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS
Type I and II Aquifers		**5**	**1000**	**700**	**10000**	**NRS**	**20**	**0.047**	**0.047**

TPH GRO and DRO results in parts per million or mg/l

BTEX and MTBE results in parts per billion or ug/l

BDL = Below Detection Limits

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene

MTBE = Methyl-tert-butyl-ether

TPH GRO = Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO = Total Petroleum Hydrocarbons Diesel Range Organics

PW-1 = Potable Well Influent

PW-2 = Potable Well Mid Point

PW-3 = Potable Well Effluent

NS = Not Sampled

Some compounds may have been detected but are not tabulated on this spreadsheet.

See laboratory analytical results reports for full results.

J Denotes Estimated Value

MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)

NRS = No Regulatory Standard

Table 3 - Historical Venting Data
Gasoline Fueling Station – Royal Farms #1
2620 Mountain Road, Joppa, Maryland 21085

Date	Air Flow (SCFM)	PID (PPM)	Pounds per day	Cumulative Pounds
5/27/2009	209	0.0	0.000	0.00
5/30/2009	220	0.0	0.000	0.00
6/1/2009	206	0.0	0.000	0.00
6/2/2009	199	0.0	0.000	0.00
6/3/2009	210	0.0	0.000	0.00
6/4/2009	227	0.0	0.000	0.00
6/5/2009	186	0.0	0.000	0.00
6/6/2009	163	0.0	0.000	0.00
6/7/2009	167	0.0	0.000	0.00
6/8/2009	150	0.0	0.000	0.00
6/9/2009	200	0.0	0.000	0.00
6/10/2009	210	0.0	0.000	0.00
6/12/2009	240	28.0	2.833	5.67
6/14/2009	223	12.7	1.194	8.05
7/31/2009	116	0.0	0.000	8.05
8/27/2009	290	0.0	0.000	8.05
9/30/2009	290	0.5	0.061	9.89
10/30/2009	310	1.4	0.183	15.38
11/30/2009	316	0.0	0.000	15.38
12/29/2009	448	2.2	0.416	27.43
1/26/2010	328	0.1	0.014	27.82
2/26/2010	315	0.0	0.000	27.82
3/31/2010	381	0.0	0.000	27.82
4/27/2010	127	0.0	0.000	27.82
5/25/2010	74	0.0	0.000	27.82
6/29/2010	80	0.0	0.000	27.82
7/29/2010	58	0.0	0.000	27.82
8/31/2010	62	0.0	0.000	27.82
9/28/2010	59	0.0	0.000	27.82
10/28/2010	59	0.0	0.000	27.82
11/30/2010	38	0.0	0.000	27.82
12/21/2010	21	0.0	0.000	27.82
1/4/2011	40	0.0	0.000	27.82
2/28/2011	24	0.0	0.000	27.82
3/28/2011	46	0.0	0.000	27.82
4/26/2011	61	24.2	0.622	45.86

Attachment C

Laboratory Analytical Report and Chain of Custody Form

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**MW-1**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	5.0	10061-02-(	Trans-1,3-dichloropropene	<	5.0
74-87-3	Chloromethane	<	5.0	79-00-5	1,1,2-Trichloroethane	<	5.0
75-01-4	Vinyl chloride	<	5.0	108-10-1	4-Methyl-2-pentanone	<	5.0
74-83-9	Bromomethane	<	5.0	591-78-6	2-Hexanone	<	5.0
75-00-3	Chloroethane	<	5.0	127-18-4	Tetrachloroethene	<	5.0
75-69-4	Trichlorofluoromethane	<	5.0	142-28-9	1,3-Dichloropropane	<	5.0
75-35-4	1,1-Dichloroethene	<	5.0	124-48-1	Dibromochloromethane	<	5.0
75-65-0	**Tert-butanol; TBA**	<	50	106-93-4	1,2-Dibromoethane	<	5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**		34	108-90-7	Chlorobenzene	<	5.0
75-09-2	Methylene chloride	<	5.0	630-20-6	1,1,1,2-Tetrachloroethane	<	5.0
156-60-5	Trans-1,2-dichloroethene	<	5.0	100-41-4	**Ethylbenzene**	<	5.0
108-20-3	**Isopropyl ether DIPE**	<	20	108-38-3	**m,p-xylene**	<	5.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	20	95-47-6	**o-xylene**	<	5.0
994-05-8	**Tert-amyl metyl ether TAME**	<	5.0	100-42-5	Styrene	<	5.0
75-85-4	**Tert-amyl alcohol TAA**	<	200	75-25-2	Bromoform	<	5.0
75-34-3	1,1-Dichloroethane	<	5.0	98-82-8	Isopropylbenzene	<	5.0
67-64-1	Acetone	<	5.0	108-86-1	Bromobenzene	<	5.0
594-20-7	2,2-Dichloropropane	<	5.0	79-34-5	1,1,2,2-Tetrachloroethane	<	5.0
156-59-2	Cis-1,2-dichloroethene	<	5.0	96-18-4	1,2,3-Trichloropropane	<	5.0
75-27-4	Bromochloromethane	<	5.0	103-65-1	N-propylbenzene	<	5.0
67-66-3	Chloroform	<	5.0	95-49-8	2-Chlorotoluene	<	5.0
71-55-6	1,1,1-Trichloroethane	<	5.0	106-43-4	4-Chlorotoluene	<	5.0
56-23-5	Carbon tetrachloride	<	5.0	108-67-8	1,3,5-Trimethylbenzene	<	5.0
78-3-93	2-Butanone	<	5.0	98-06-6	Tert-butylbenzene	<	5.0
563-58-6	1,1-Dichloropropene	<	5.0	120-82-1	1,2,4-Trimethylbenzene	<	5.0
108-05-4	Vinyl Acetate	<	5.0	135-98-8	Sec-butylbenzene	<	5.0
110-75-8	2-Chloroethylvinyl ether	<	5.0	541-73-1	1,3-Dichlorobenzene	<	5.0
71-43-2	**Benzene**	<	5.0	99-87-6	4-Isopropyltoluene	<	5.0
107-06-2	1,2-Dichloroethane	<	5.0	106-46-7	1,4-Dichlorobenzene	<	5.0
79-01-6	Trichloroethene	<	5.0	95-50-1	1,2-Dichlorobenzene	<	5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	20	104-51-8	n-Butylbenzene	<	5.0
78-87-5	1,2-Dichloropropane	<	5.0	96-12-8	1,2-Dibromo-3-chloropropan	<	5.0
74-95-3	Dibromomethane	<	5.0	120-82-1	1,2,4-Trichlorobenzene	<	5.0
75-27-4	Bromodichloromethane	<	5.0	87-68-3	Hexachlorobutadiene	<	5.0
10061-01-5	Cis-1,3-dichloropropene	<	5.0	91-20-3	Naphthalene	<	5.0
108-88-3	**Toluene**	<	5.0	87-61-6	1,2,3-Trichlorobenzene	<	5.0

	Concentration Detected		Units	Method	PQL	Date Analyzed
TPH - GRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**MW-2**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected	CAS Number	Compound	Concentration Detected
75-71-8	Dichlorodifluoromethane	< 5.0	10061-02-(	Trans-1,3-dichloropropene	< 5.0
74-87-3	Chloromethane	< 5.0	79-00-5	1,1,2-Trichloroethane	< 5.0
75-01-4	Vinyl chloride	< 5.0	108-10-1	4-Methyl-2-pentanone	< 5.0
74-83-9	Bromomethane	< 5.0	591-78-6	2-Hexanone	< 5.0
75-00-3	Chloroethane	< 5.0	127-18-4	Tetrachloroethene	< 5.0
75-69-4	Trichlorofluoromethane	< 5.0	142-28-9	1,3-Dichloropropane	< 5.0
75-35-4	1,1-Dichloroethene	< 5.0	124-48-1	Dibromochloromethane	< 5.0
75-65-0	**Tert-butanol; TBA**	< 50	106-93-4	1,2-Dibromoethane	< 5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	1300	108-90-7	Chlorobenzene	< 5.0
75-09-2	Methylene chloride	< 5.0	630-20-6	1,1,1,2-Tetrachloroethane	< 5.0
156-60-5	Trans-1,2-dichloroethene	< 5.0	100-41-4	**Ethylbenzene**	720
108-20-3	**Isopropyl ether DIPE**	44	108-38-3	**m,p-xylene**	580
637-92-3	**Ethyl-tert-butyl ether ETBE**	16	95-47-6	**o-xylene**	8.0
994-05-8	**Tert-amyl metyl ether TAME**	< 20	100-42-5	Styrene	< 5.0
75-85-4	**Tert-amyl alcohol TAA**	< 200	75-25-2	Bromoform	< 5.0
75-34-3	1,1-Dichloroethane	< 5.0	98-82-8	Isopropylbenzene	110
67-64-1	Acetone	< 5.0	108-86-1	Bromobenzene	< 5.0
594-20-7	2,2-Dichloropropane	< 5.0	79-34-5	1,1,2,2-Tetrachloroethane	< 5.0
156-59-2	Cis-1,2-dichloroethene	< 5.0	96-18-4	1,2,3-Trichloropropane	< 5.0
75-27-4	Bromochloromethane	< 5.0	103-65-1	N-propylbenzene	160
67-66-3	Chloroform	< 5.0	95-49-8	2-Chlorotoluene	< 5.0
71-55-6	1,1,1-Trichloroethane	< 5.0	106-43-4	4-Chlorotoluene	< 5.0
56-23-5	Carbon tetrachloride	< 5.0	108-67-8	1,3,5-Trimethylbenzene	7.5
78-3-93	2-Butanone	< 5.0	98-06-6	Tert-butylbenzene	< 5.0
563-58-6	1,1-Dichloropropene	< 5.0	120-82-1	1,2,4-Trimethylbenzene	33
108-05-4	Vinyl Acetate	< 5.0	135-98-8	Sec-butylbenzene	< 5.0
110-75-8	2-Chloroethylvinyl ether	< 5.0	541-73-1	1,3-Dichlorobenzene	< 5.0
71-43-2	**Benzene**	150	99-87-6	4-Isopropyltoluene	9.7
107-06-2	1,2-Dichloroethane	< 5.0	106-46-7	1,4-Dichlorobenzene	< 5.0
79-01-6	Trichloroethene	< 5.0	95-50-1	1,2-Dichlorobenzene	< 5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	< 20	104-51-8	n-Butylbenzene	< 5.0
78-87-5	1,2-Dichloropropane	< 5.0	96-12-8	1,2-Dibromo-3-chloropropan	< 5.0
74-95-3	Dibromomethane	< 5.0	120-82-1	1,2,4-Trichlorobenzene	< 5.0
75-27-4	Bromodichloromethane	< 5.0	87-68-3	Hexachlorobutadiene	< 5.0
10061-01-5	Cis-1,3-dichloropropene	< 5.0	91-20-3	Naphthalene	150
108-88-3	**Toluene**	< 5.0	87-61-6	1,2,3-Trichlorobenzene	< 5.0

	Concentration Detected	Units	Method	PQL	Date Analyzed
TPH - GRO	2.0	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	1.2	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**MW-3**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	5.0	10061-02-(	Trans-1,3-dichloropropene	<	5.0
74-87-3	Chloromethane	<	5.0	79-00-5	1,1,2-Trichloroethane	<	5.0
75-01-4	Vinyl chloride	<	5.0	108-10-1	4-Methyl-2-pentanone	<	5.0
74-83-9	Bromomethane	<	5.0	591-78-6	2-Hexanone	<	5.0
75-00-3	Chloroethane	<	5.0	127-18-4	Tetrachloroethene	<	5.0
75-69-4	Trichlorofluoromethane	<	5.0	142-28-9	1,3-Dichloropropane	<	5.0
75-35-4	1,1-Dichloroethene	<	5.0	124-48-1	Dibromochloromethane	<	5.0
75-65-0	**Tert-butanol; TBA**	<	50	106-93-4	1,2-Dibromoethane	<	5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**		17	108-90-7	Chlorobenzene	<	5.0
75-09-2	Methylene chloride	<	5.0	630-20-6	1,1,1,2-Tetrachloroethane	<	5.0
156-60-5	Trans-1,2-dichloroethene	<	5.0	100-41-4	**Ethylbenzene**		5.4
108-20-3	**Isopropyl ether DIPE**	<	20	108-38-3	**m,p-xylene**	<	5.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	20	95-47-6	**o-xylene**	<	5.0
994-05-8	**Tert-amyl metyl ether TAME**	<	5.0	100-42-5	Styrene	<	5.0
75-85-4	**Tert-amyl alcohol TAA**	<	200	75-25-2	Bromoform	<	5.0
75-34-3	1,1-Dichloroethane	<	5.0	98-82-8	Isopropylbenzene	<	5.0
67-64-1	Acetone	<	5.0	108-86-1	Bromobenzene	<	5.0
594-20-7	2,2-Dichloropropane	<	5.0	79-34-5	1,1,2,2-Tetrachloroethane	<	5.0
156-59-2	Cis-1,2-dichloroethene	<	5.0	96-18-4	1,2,3-Trichloropropane	<	5.0
75-27-4	Bromochloromethane	<	5.0	103-65-1	N-propylbenzene	<	5.0
67-66-3	Chloroform	<	5.0	95-49-8	2-Chlorotoluene	<	5.0
71-55-6	1,1,1-Trichloroethane	<	5.0	106-43-4	4-Chlorotoluene	<	5.0
56-23-5	Carbon tetrachloride	<	5.0	108-67-8	1,3,5-Trimethylbenzene	<	5.0
78-3-93	2-Butanone	<	5.0	98-06-6	Tert-butylbenzene	<	5.0
563-58-6	1,1-Dichloropropene	<	5.0	120-82-1	1,2,4-Trimethylbenzene	<	5.0
108-05-4	Vinyl Acetate	<	5.0	135-98-8	Sec-butylbenzene	<	5.0
110-75-8	2-Chloroethylvinyl ether	<	5.0	541-73-1	1,3-Dichlorobenzene	<	5.0
71-43-2	**Benzene**	<	5.0	99-87-6	4-Isopropyltoluene	<	5.0
107-06-2	1,2-Dichloroethane	<	5.0	106-46-7	1,4-Dichlorobenzene	<	5.0
79-01-6	Trichloroethene	<	5.0	95-50-1	1,2-Dichlorobenzene	<	5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	20	104-51-8	n-Butylbenzene	<	5.0
78-87-5	1,2-Dichloropropane	<	5.0	96-12-8	1,2-Dibromo-3-chloropropan	<	5.0
74-95-3	Dibromomethane	<	5.0	120-82-1	1,2,4-Trichlorobenzene	<	5.0
75-27-4	Bromodichloromethane	<	5.0	87-68-3	Hexachlorobutadiene	<	5.0
10061-01-5	Cis-1,3-dichloropropene	<	5.0	91-20-3	Naphthalene	<	5.0
108-88-3	**Toluene**	<	5.0	87-61-6	1,2,3-Trichlorobenzene	<	5.0

	Concentration Detected		Units	Method	PQL	Date Analyzed
TPH - GRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**MW-4**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	5.0	10061-02-(	Trans-1,3-dichloropropene	<	5.0
74-87-3	Chloromethane	<	5.0	79-00-5	1,1,2-Trichloroethane	<	5.0
75-01-4	Vinyl chloride	<	5.0	108-10-1	4-Methyl-2-pentanone	<	5.0
74-83-9	Bromomethane	<	5.0	591-78-6	2-Hexanone	<	5.0
75-00-3	Chloroethane	<	5.0	127-18-4	Tetrachloroethene	<	5.0
75-69-4	Trichlorofluoromethane	<	5.0	142-28-9	1,3-Dichloropropane	<	5.0
75-35-4	1,1-Dichloroethene	<	5.0	124-48-1	Dibromochloromethane	<	5.0
75-65-0	**Tert-butanol; TBA**	<	50	106-93-4	1,2-Dibromoethane	<	5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**		9.0	108-90-7	Chlorobenzene	<	5.0
75-09-2	Methylene chloride	<	5.0	630-20-6	1,1,1,2-Tetrachloroethane	<	5.0
156-60-5	Trans-1,2-dichloroethene	<	5.0	100-41-4	**Ethylbenzene**	<	5.0
108-20-3	**Isopropyl ether DIPE**	<	20	108-38-3	**m,p-xylene**	<	5.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	20	95-47-6	**o-xylene**	<	5.0
994-05-8	**Tert-amyl metyl ether TAME**	<	5.0	100-42-5	Styrene	<	5.0
75-85-4	**Tert-amyl alcohol TAA**	<	200	75-25-2	Bromoform	<	5.0
75-34-3	1,1-Dichloroethane	<	5.0	98-82-8	Isopropylbenzene	<	5.0
67-64-1	Acetone	<	5.0	108-86-1	Bromobenzene	<	5.0
594-20-7	2,2-Dichloropropane	<	5.0	79-34-5	1,1,2,2-Tetrachloroethane	<	5.0
156-59-2	Cis-1,2-dichloroethene	<	5.0	96-18-4	1,2,3-Trichloropropane	<	5.0
75-27-4	Bromochloromethane	<	5.0	103-65-1	N-propylbenzene	<	5.0
67-66-3	Chloroform	<	5.0	95-49-8	2-Chlorotoluene	<	5.0
71-55-6	1,1,1-Trichloroethane	<	5.0	106-43-4	4-Chlorotoluene	<	5.0
56-23-5	Carbon tetrachloride	<	5.0	108-67-8	1,3,5-Trimethylbenzene	<	5.0
78-3-93	2-Butanone	<	5.0	98-06-6	Tert-butylbenzene	<	5.0
563-58-6	1,1-Dichloropropene	<	5.0	120-82-1	1,2,4-Trimethylbenzene	<	5.0
108-05-4	Vinyl Acetate	<	5.0	135-98-8	Sec-butylbenzene	<	5.0
110-75-8	2-Chloroethylvinyl ether	<	5.0	541-73-1	1,3-Dichlorobenzene	<	5.0
71-43-2	**Benzene**	<	5.0	99-87-6	4-Isopropyltoluene	<	5.0
107-06-2	1,2-Dichloroethane	<	5.0	106-46-7	1,4-Dichlorobenzene	<	5.0
79-01-6	Trichloroethene	<	5.0	95-50-1	1,2-Dichlorobenzene	<	5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	20	104-51-8	n-Butylbenzene	<	5.0
78-87-5	1,2-Dichloropropane	<	5.0	96-12-8	1,2-Dibromo-3-chloropropan	<	5.0
74-95-3	Dibromomethane	<	5.0	120-82-1	1,2,4-Trichlorobenzene	<	5.0
75-27-4	Bromodichloromethane	<	5.0	87-68-3	Hexachlorobutadiene	<	5.0
10061-01-5	Cis-1,3-dichloropropene	<	5.0	91-20-3	Naphthalene	<	5.0
108-88-3	**Toluene**	<	5.0	87-61-6	1,2,3-Trichlorobenzene	<	5.0

	Concentration Detected		Units	Method	PQL	Date Analyzed
TPH - GRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	<	0.5	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**MW-5**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected	CAS Number	Compound	Concentration Detected
75-71-8	Dichlorodifluoromethane	< 5.0	10061-02-(	Trans-1,3-dichloropropene	< 5.0
74-87-3	Chloromethane	< 5.0	79-00-5	1,1,2-Trichloroethane	< 5.0
75-01-4	Vinyl chloride	< 5.0	108-10-1	4-Methyl-2-pentanone	< 5.0
74-83-9	Bromomethane	< 5.0	591-78-6	2-Hexanone	< 5.0
75-00-3	Chloroethane	< 5.0	127-18-4	Tetrachloroethene	< 5.0
75-69-4	Trichlorofluoromethane	< 5.0	142-28-9	1,3-Dichloropropane	< 5.0
75-35-4	1,1-Dichloroethene	< 5.0	124-48-1	Dibromochloromethane	< 5.0
75-65-0	**Tert-butanol; TBA**	< 50	106-93-4	1,2-Dibromoethane	< 5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	250	108-90-7	Chlorobenzene	< 5.0
75-09-2	Methylene chloride	< 5.0	630-20-6	1,1,1,2-Tetrachloroethane	< 5.0
156-60-5	Trans-1,2-dichloroethene	< 5.0	100-41-4	**Ethylbenzene**	1100
108-20-3	**Isopropyl ether DIPE**	< 20	108-38-3	**m,p-xylene**	1600
637-92-3	**Ethyl-tert-butyl ether ETBE**	< 20	95-47-6	**o-xylene**	1100
994-05-8	**Tert-amyl metyl ether TAME**	< 5.0	100-42-5	Styrene	< 5.0
75-85-4	**Tert-amyl alcohol TAA**	< 200	75-25-2	Bromoform	< 5.0
75-34-3	1,1-Dichloroethane	< 5.0	98-82-8	Isopropylbenzene	170
67-64-1	Acetone	< 5.0	108-86-1	Bromobenzene	< 5.0
594-20-7	2,2-Dichloropropane	< 5.0	79-34-5	1,1,2,2-Tetrachloroethane	< 5.0
156-59-2	Cis-1,2-dichloroethene	< 5.0	96-18-4	1,2,3-Trichloropropane	< 5.0
75-27-4	Bromochloromethane	< 5.0	103-65-1	N-propylbenzene	< 5.0
67-66-3	Chloroform	< 5.0	95-49-8	2-Chlorotoluene	< 5.0
71-55-6	1,1,1-Trichloroethane	< 5.0	106-43-4	4-Chlorotoluene	< 5.0
56-23-5	Carbon tetrachloride	< 5.0	108-67-8	1,3,5-Trimethylbenzene	500
78-3-93	2-Butanone	< 5.0	98-06-6	Tert-butylbenzene	< 5.0
563-58-6	1,1-Dichloropropene	< 5.0	120-82-1	1,2,4-Trimethylbenzene	1000
108-05-4	Vinyl Acetate	< 5.0	135-98-8	Sec-butylbenzene	< 5.0
110-75-8	2-Chloroethylvinyl ether	< 5.0	541-73-1	1,3-Dichlorobenzene	< 5.0
71-43-2	**Benzene**	65	99-87-6	4-Isopropyltoluene	38
107-06-2	1,2-Dichloroethane	< 5.0	106-46-7	1,4-Dichlorobenzene	< 5.0
79-01-6	Trichloroethene	< 5.0	95-50-1	1,2-Dichlorobenzene	< 5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	< 20	104-51-8	n-Butylbenzene	< 5.0
78-87-5	1,2-Dichloropropane	< 5.0	96-12-8	1,2-Dibromo-3-chloropropan	< 5.0
74-95-3	Dibromomethane	< 5.0	120-82-1	1,2,4-Trichlorobenzene	< 5.0
75-27-4	Bromodichloromethane	< 5.0	87-68-3	Hexachlorobutadiene	< 5.0
10061-01-5	Cis-1,3-dichloropropene	< 5.0	91-20-3	Naphthalene	210
108-88-3	**Toluene**	540	87-61-6	1,2,3-Trichlorobenzene	< 5.0

	Concentration Detected	Units	Method	PQL	Date Analyzed
TPH - GRO	22	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	7.5	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**TP-1**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected	CAS Number	Compound	Concentration Detected
75-71-8	Dichlorodifluoromethane	< 5.0	10061-02-(	Trans-1,3-dichloropropene	< 5.0
74-87-3	Chloromethane	< 5.0	79-00-5	1,1,2-Trichloroethane	< 5.0
75-01-4	Vinyl chloride	< 5.0	108-10-1	4-Methyl-2-pentanone	< 5.0
74-83-9	Bromomethane	< 5.0	591-78-6	2-Hexanone	< 5.0
75-00-3	Chloroethane	< 5.0	127-18-4	Tetrachloroethene	< 5.0
75-69-4	Trichlorofluoromethane	< 5.0	142-28-9	1,3-Dichloropropane	< 5.0
75-35-4	1,1-Dichloroethene	< 5.0	124-48-1	Dibromochloromethane	< 5.0
75-65-0	**Tert-butanol; TBA**	< 50	106-93-4	1,2-Dibromoethane	< 5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	< 5.0	108-90-7	Chlorobenzene	< 5.0
75-09-2	Methylene chloride	< 5.0	630-20-6	1,1,1,2-Tetrachloroethane	< 5.0
156-60-5	Trans-1,2-dichloroethene	< 5.0	100-41-4	**Ethylbenzene**	3400
108-20-3	**Isopropyl ether DIPE**	24	108-38-3	**m,p-xylene**	6900
637-92-3	**Ethyl-tert-butyl ether ETBE**	< 20	95-47-6	**o-xylene**	3300
994-05-8	**Tert-amyl metyl ether TAME**	< 5.0	100-42-5	Styrene	< 5.0
75-85-4	**Tert-amyl alcohol TAA**	< 200	75-25-2	Bromoform	< 5.0
75-34-3	1,1-Dichloroethane	< 5.0	98-82-8	Isopropylbenzene	250
67-64-1	Acetone	< 5.0	108-86-1	Bromobenzene	< 5.0
594-20-7	2,2-Dichloropropane	< 5.0	79-34-5	1,1,2,2-Tetrachloroethane	< 5.0
156-59-2	Cis-1,2-dichloroethene	< 5.0	96-18-4	1,2,3-Trichloropropane	< 5.0
75-27-4	Bromochloromethane	< 5.0	103-65-1	N-propylbenzene	< 5.0
67-66-3	Chloroform	< 5.0	95-49-8	2-Chlorotoluene	< 5.0
71-55-6	1,1,1-Trichloroethane	< 5.0	106-43-4	4-Chlorotoluene	< 5.0
56-23-5	Carbon tetrachloride	< 5.0	108-67-8	1,3,5-Trimethylbenzene	730
78-3-93	2-Butanone	< 5.0	98-06-6	Tert-butylbenzene	< 5.0
563-58-6	1,1-Dichloropropene	< 5.0	120-82-1	1,2,4-Trimethylbenzene	1400
108-05-4	Vinyl Acetate	< 5.0	135-98-8	Sec-butylbenzene	< 5.0
110-75-8	2-Chloroethylvinyl ether	< 5.0	541-73-1	1,3-Dichlorobenzene	< 5.0
71-43-2	**Benzene**	70	99-87-6	4-Isopropyltoluene	62
107-06-2	1,2-Dichloroethane	< 5.0	106-46-7	1,4-Dichlorobenzene	< 5.0
79-01-6	Trichloroethene	< 5.0	95-50-1	1,2-Dichlorobenzene	< 5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	< 20	104-51-8	n-Butylbenzene	< 5.0
78-87-5	1,2-Dichloropropane	< 5.0	96-12-8	1,2-Dibromo-3-chloropropan	< 5.0
74-95-3	Dibromomethane	< 5.0	120-82-1	1,2,4-Trichlorobenzene	< 5.0
75-27-4	Bromodichloromethane	< 5.0	87-68-3	Hexachlorobutadiene	< 5.0
10061-01-5	Cis-1,3-dichloropropene	< 5.0	91-20-3	Naphthalene	260
108-88-3	**Toluene**	1500	87-61-6	1,2,3-Trichlorobenzene	< 5.0

	Concentration Detected	Units	Method	PQL	Date Analyzed
TPH - GRO	19	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	19	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**TP-2**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Job No:	05-056	Date Analyzed:	12/29/11

EPA Method 8260 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected	CAS Number	Compound	Concentration Detected
75-71-8	Dichlorodifluoromethane	< 5.0	10061-02-(	Trans-1,3-dichloropropene	< 5.0
74-87-3	Chloromethane	< 5.0	79-00-5	1,1,2-Trichloroethane	< 5.0
75-01-4	Vinyl chloride	< 5.0	108-10-1	4-Methyl-2-pentanone	< 5.0
74-83-9	Bromomethane	< 5.0	591-78-6	2-Hexanone	< 5.0
75-00-3	Chloroethane	< 5.0	127-18-4	Tetrachloroethene	< 5.0
75-69-4	Trichlorofluoromethane	< 5.0	142-28-9	1,3-Dichloropropane	< 5.0
75-35-4	1,1-Dichloroethene	< 5.0	124-48-1	Dibromochloromethane	< 5.0
75-65-0	**Tert-butanol; TBA**	< 50	106-93-4	1,2-Dibromoethane	< 5.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	210	108-90-7	Chlorobenzene	< 5.0
75-09-2	Methylene chloride	< 5.0	630-20-6	1,1,1,2-Tetrachloroethane	< 5.0
156-60-5	Trans-1,2-dichloroethene	< 5.0	100-41-4	**Ethylbenzene**	3300
108-20-3	**Isopropyl ether DIPE**	29	108-38-3	**m,p-xylene**	7600
637-92-3	**Ethyl-tert-butyl ether ETBE**	< 20	95-47-6	**o-xylene**	3500
994-05-8	**Tert-amyl metyl ether TAME**	< 5.0	100-42-5	Styrene	< 5.0
75-85-4	**Tert-amyl alcohol TAA**	< 200	75-25-2	Bromoform	< 5.0
75-34-3	1,1-Dichloroethane	< 5.0	98-82-8	Isopropylbenzene	270
67-64-1	Acetone	< 5.0	108-86-1	Bromobenzene	< 5.0
594-20-7	2,2-Dichloropropane	< 5.0	79-34-5	1,1,2,2-Tetrachloroethane	< 5.0
156-59-2	Cis-1,2-dichloroethene	< 5.0	96-18-4	1,2,3-Trichloropropane	< 5.0
75-27-4	Bromochloromethane	< 5.0	103-65-1	N-propylbenzene	< 5.0
67-66-3	Chloroform	< 5.0	95-49-8	2-Chlorotoluene	< 5.0
71-55-6	1,1,1-Trichloroethane	< 5.0	106-43-4	4-Chlorotoluene	< 5.0
56-23-5	Carbon tetrachloride	< 5.0	108-67-8	1,3,5-Trimethylbenzene	720
78-3-93	2-Butanone	< 5.0	98-06-6	Tert-butylbenzene	< 5.0
563-58-6	1,1-Dichloropropene	< 5.0	120-82-1	1,2,4-Trimethylbenzene	660
108-05-4	Vinyl Acetate	< 5.0	135-98-8	Sec-butylbenzene	< 5.0
110-75-8	2-Chloroethylvinyl ether	< 5.0	541-73-1	1,3-Dichlorobenzene	< 5.0
71-43-2	**Benzene**	140	99-87-6	4-Isopropyltoluene	55
107-06-2	1,2-Dichloroethane	< 5.0	106-46-7	1,4-Dichlorobenzene	< 5.0
79-01-6	Trichloroethene	< 5.0	95-50-1	1,2-Dichlorobenzene	< 5.0
75-65-0	**Tert-amyl ethyl ether TAEE**	< 20	104-51-8	n-Butylbenzene	< 5.0
78-87-5	1,2-Dichloropropane	< 5.0	96-12-8	1,2-Dibromo-3-chloropropan	< 5.0
74-95-3	Dibromomethane	< 5.0	120-82-1	1,2,4-Trichlorobenzene	< 5.0
75-27-4	Bromodichloromethane	< 5.0	87-68-3	Hexachlorobutadiene	< 5.0
10061-01-5	Cis-1,3-dichloropropene	< 5.0	91-20-3	Naphthalene	300
108-88-3	**Toluene**	1800	87-61-6	1,2,3-Trichlorobenzene	< 5.0

	Concentration Detected	Units	Method	PQL	Date Analyzed
TPH - GRO	28	mg/L	EPA 8015M	0.5	12/30/11
TPH - DRO	14	mg/L	EPA 8015M	0.5	12/30/11

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**PW-1**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Project No:	05-056	Date Analyzed:	12/29/11

EPA Method 524.2 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	1.0	10061-02-(	Trans-1,3-dichloropropene	<	1.0
74-87-3	Chloromethane	<	1.0	79-00-5	1,1,2-Trichloroethane	<	1.0
75-01-4	Vinyl chloride	<	1.0	108-10-1	4-Methyl-2-pentanone	<	1.0
74-83-9	Bromomethane	<	1.0	591-78-6	2-Hexanone	<	1.0
75-00-3	Chloroethane	<	1.0	127-18-4	Tetrachloroethene	<	1.0
75-69-4	Trichlorofluoromethane	<	1.0	142-28-9	1,3-Dichloropropane	<	1.0
75-35-4	1,1-Dichloroethene	<	1.0	124-48-1	Dibromochloromethane	<	1.0
75-65-0	**Tert-butanol; TBA**	<	10	106-93-4	1,2-Dibromoethane	<	1.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	<	1.0	108-90-7	Chlorobenzene	<	1.0
75-09-2	Methylene chloride	<	1.0	630-20-6	1,1,1,2-Tetrachloroethane	<	1.0
156-60-5	Trans-1,2-dichloroethene	<	1.0	100-41-4	**Ethylbenzene**	<	1.0
108-20-3	**Isopropyl ether DIPE**	<	4.0	108-38-3	**m,p-xylene**	<	1.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	4.0	95-47-6	**o-xylene**	<	1.0
994-05-8	**Tert-amyl metyl ether TAME**	<	4.0	100-42-5	Styrene	<	1.0
75-85-4	**Tert-amyl alcohol TAA**	<	40	75-25-2	Bromoform	<	1.0
75-34-3	1,1-Dichloroethane	<	1.0	98-82-8	Isopropylbenzene	<	1.0
67-64-1	Acetone	<	1.0	108-86-1	Bromobenzene	<	1.0
594-20-7	2,2-Dichloropropane	<	1.0	79-34-5	1,1,2,2-Tetrachloroethane	<	1.0
156-59-2	Cis-1,2-dichloroethene	<	1.0	96-18-4	1,2,3-Trichloropropane	<	1.0
75-27-4	Bromochloromethane	<	1.0	103-65-1	N-propylbenzene	<	1.0
67-66-3	Chloroform	<	1.0	95-49-8	2-Chlorotoluene	<	1.0
71-55-6	1,1,1-Trichloroethane	<	1.0	106-43-4	4-Chlorotoluene	<	1.0
56-23-5	Carbon tetrachloride	<	1.0	108-67-8	1,3,5-Trimethylbenzene	<	1.0
78-3-93	2-Butanone	<	1.0	98-06-6	Tert-butylbenzene	<	1.0
563-58-6	1,1-Dichloropropene	<	1.0	120-82-1	1,2,4-Trimethylbenzene	<	1.0
108-05-4	Vinyl Acetate	<	1.0	135-98-8	Sec-butylbenzene	<	1.0
110-75-8	2-Chloroethylvinyl ether	<	1.0	541-73-1	1,3-Dichlorobenzene	<	1.0
71-43-2	**Benzene**	<	1.0	99-87-6	4-Isopropyltoluene	<	1.0
107-06-2	1,2-Dichloroethane	<	1.0	106-46-7	1,4-Dichlorobenzene	<	1.0
79-01-6	Trichloroethene	<	1.0	95-50-1	1,2-Dichlorobenzene	<	1.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	4.0	104-51-8	n-Butylbenzene	<	1.0
78-87-5	1,2-Dichloropropane	<	1.0	96-12-8	1,2-Dibromo-3-chloropropan	<	1.0
74-95-3	Dibromomethane	<	1.0	120-82-1	1,2,4-Trichlorobenzene	<	1.0
75-27-4	Bromodichloromethane	<	1.0	87-68-3	Hexachlorobutadiene	<	1.0
10061-01-5	Cis-1,3-dichloropropene	<	1.0	91-20-3	Naphthalene		1.1
108-88-3	**Toluene**	<	1.0	87-61-6	1,2,3-Trichlorobenzene	<	1.0

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**PW-2a**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Project No:	05-056	Date Analyzed:	12/29/11

EPA Method 524.2 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	1.0	10061-02-(	Trans-1,3-dichloropropene	<	1.0
74-87-3	Chloromethane	<	1.0	79-00-5	1,1,2-Trichloroethane	<	1.0
75-01-4	Vinyl chloride	<	1.0	108-10-1	4-Methyl-2-pentanone	<	1.0
74-83-9	Bromomethane	<	1.0	591-78-6	2-Hexanone	<	1.0
75-00-3	Chloroethane	<	1.0	127-18-4	Tetrachloroethene	<	1.0
75-69-4	Trichlorofluoromethane	<	1.0	142-28-9	1,3-Dichloropropane	<	1.0
75-35-4	1,1-Dichloroethene	<	1.0	124-48-1	Dibromochloromethane	<	1.0
75-65-0	**Tert-butanol; TBA**	<	10	106-93-4	1,2-Dibromoethane	<	1.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	<	1.0	108-90-7	Chlorobenzene	<	1.0
75-09-2	Methylene chloride	<	1.0	630-20-6	1,1,1,2-Tetrachloroethane	<	1.0
156-60-5	Trans-1,2-dichloroethene	<	1.0	100-41-4	**Ethylbenzene**	<	1.0
108-20-3	**Isopropyl ether DIPE**	<	4.0	108-38-3	**m,p-xylene**	<	1.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	4.0	95-47-6	**o-xylene**	<	1.0
994-05-8	**Tert-amyl metyl ether TAME**	<	4.0	100-42-5	Styrene	<	1.0
75-85-4	**Tert-amyl alcohol TAA**	<	40	75-25-2	Bromoform	<	1.0
75-34-3	1,1-Dichloroethane	<	1.0	98-82-8	Isopropylbenzene	<	1.0
67-64-1	Acetone	<	1.0	108-86-1	Bromobenzene	<	1.0
594-20-7	2,2-Dichloropropane	<	1.0	79-34-5	1,1,2,2-Tetrachloroethane	<	1.0
156-59-2	Cis-1,2-dichloroethene	<	1.0	96-18-4	1,2,3-Trichloropropane	<	1.0
75-27-4	Bromochloromethane	<	1.0	103-65-1	N-propylbenzene	<	1.0
67-66-3	Chloroform	<	1.0	95-49-8	2-Chlorotoluene	<	1.0
71-55-6	1,1,1-Trichloroethane	<	1.0	106-43-4	4-Chlorotoluene	<	1.0
56-23-5	Carbon tetrachloride	<	1.0	108-67-8	1,3,5-Trimethylbenzene	<	1.0
78-3-93	2-Butanone	<	1.0	98-06-6	Tert-butylbenzene	<	1.0
563-58-6	1,1-Dichloropropene	<	1.0	120-82-1	1,2,4-Trimethylbenzene	<	1.0
108-05-4	Vinyl Acetate	<	1.0	135-98-8	Sec-butylbenzene	<	1.0
110-75-8	2-Chloroethylvinyl ether	<	1.0	541-73-1	1,3-Dichlorobenzene	<	1.0
71-43-2	**Benzene**	<	1.0	99-87-6	4-Isopropyltoluene	<	1.0
107-06-2	1,2-Dichloroethane	<	1.0	106-46-7	1,4-Dichlorobenzene	<	1.0
79-01-6	Trichloroethene	<	1.0	95-50-1	1,2-Dichlorobenzene	<	1.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	4.0	104-51-8	n-Butylbenzene	<	1.0
78-87-5	1,2-Dichloropropane	<	1.0	96-12-8	1,2-Dibromo-3-chloropropan	<	1.0
74-95-3	Dibromomethane	<	1.0	120-82-1	1,2,4-Trichlorobenzene	<	1.0
75-27-4	Bromodichloromethane	<	1.0	87-68-3	Hexachlorobutadiene	<	1.0
10061-01-5	Cis-1,3-dichloropropene	<	1.0	91-20-3	Naphthalene	<	1.0
108-88-3	**Toluene**	<	1.0	87-61-6	1,2,3-Trichlorobenzene	<	1.0

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**PW-2b**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Project No:	05-056	Date Analyzed:	12/29/11

EPA Method 524.2 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	1.0	10061-02-(	Trans-1,3-dichloropropene	<	1.0
74-87-3	Chloromethane	<	1.0	79-00-5	1,1,2-Trichloroethane	<	1.0
75-01-4	Vinyl chloride	<	1.0	108-10-1	4-Methyl-2-pentanone	<	1.0
74-83-9	Bromomethane	<	1.0	591-78-6	2-Hexanone	<	1.0
75-00-3	Chloroethane	<	1.0	127-18-4	Tetrachloroethene	<	1.0
75-69-4	Trichlorofluoromethane	<	1.0	142-28-9	1,3-Dichloropropane	<	1.0
75-35-4	1,1-Dichloroethene	<	1.0	124-48-1	Dibromochloromethane	<	1.0
75-65-0	**Tert-butanol; TBA**	<	10	106-93-4	1,2-Dibromoethane	<	1.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	<	1.0	108-90-7	Chlorobenzene	<	1.0
75-09-2	Methylene chloride	<	1.0	630-20-6	1,1,1,2-Tetrachloroethane	<	1.0
156-60-5	Trans-1,2-dichloroethene	<	1.0	100-41-4	**Ethylbenzene**	<	1.0
108-20-3	**Isopropyl ether DIPE**	<	4.0	108-38-3	**m,p-xylene**	<	1.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	4.0	95-47-6	**o-xylene**	<	1.0
994-05-8	**Tert-amyl metyl ether TAME**	<	4.0	100-42-5	Styrene	<	1.0
75-85-4	**Tert-amyl alcohol TAA**	<	40	75-25-2	Bromoform	<	1.0
75-34-3	1,1-Dichloroethane	<	1.0	98-82-8	Isopropylbenzene	<	1.0
67-64-1	Acetone	<	1.0	108-86-1	Bromobenzene	<	1.0
594-20-7	2,2-Dichloropropane	<	1.0	79-34-5	1,1,2,2-Tetrachloroethane	<	1.0
156-59-2	Cis-1,2-dichloroethene	<	1.0	96-18-4	1,2,3-Trichloropropane	<	1.0
75-27-4	Bromochloromethane	<	1.0	103-65-1	N-propylbenzene	<	1.0
67-66-3	Chloroform	<	1.0	95-49-8	2-Chlorotoluene	<	1.0
71-55-6	1,1,1-Trichloroethane	<	1.0	106-43-4	4-Chlorotoluene	<	1.0
56-23-5	Carbon tetrachloride	<	1.0	108-67-8	1,3,5-Trimethylbenzene	<	1.0
78-3-93	2-Butanone	<	1.0	98-06-6	Tert-butylbenzene	<	1.0
563-58-6	1,1-Dichloropropene	<	1.0	120-82-1	1,2,4-Trimethylbenzene	<	1.0
108-05-4	Vinyl Acetate	<	1.0	135-98-8	Sec-butylbenzene	<	1.0
110-75-8	2-Chloroethylvinyl ether	<	1.0	541-73-1	1,3-Dichlorobenzene	<	1.0
71-43-2	**Benzene**	<	1.0	99-87-6	4-Isopropyltoluene	<	1.0
107-06-2	1,2-Dichloroethane	<	1.0	106-46-7	1,4-Dichlorobenzene	<	1.0
79-01-6	Trichloroethene	<	1.0	95-50-1	1,2-Dichlorobenzene	<	1.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	4.0	104-51-8	n-Butylbenzene	<	1.0
78-87-5	1,2-Dichloropropane	<	1.0	96-12-8	1,2-Dibromo-3-chloropropan	<	1.0
74-95-3	Dibromomethane	<	1.0	120-82-1	1,2,4-Trichlorobenzene	<	1.0
75-27-4	Bromodichloromethane	<	1.0	87-68-3	Hexachlorobutadiene	<	1.0
10061-01-5	Cis-1,3-dichloropropene	<	1.0	91-20-3	Naphthalene	<	1.0
108-88-3	**Toluene**	<	1.0	87-61-6	1,2,3-Trichlorobenzene	<	1.0

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Anabell

Environmental, Inc.

8648 Dakota Drive, Gaithersburg, MD 20877 Tel/Fax: (301) 548-9425

Laboratory Analysis Results

Client:	Advantage Environmental	Matrix:	Water
Client ID:	**PW-3**	Date Sampled:	12/22/11
Site:	**RF-1 Mountain Rd Joppa, MD**	Date Received:	12/28/11
Project No:	05-056	Date Analyzed:	12/29/11

EPA Method 524.2 Units: ug/L (ppb)

CAS Number	Compound	Concentration Detected		CAS Number	Compound	Concentration Detected	
75-71-8	Dichlorodifluoromethane	<	1.0	10061-02-(	Trans-1,3-dichloropropene	<	1.0
74-87-3	Chloromethane	<	1.0	79-00-5	1,1,2-Trichloroethane	<	1.0
75-01-4	Vinyl chloride	<	1.0	108-10-1	4-Methyl-2-pentanone	<	1.0
74-83-9	Bromomethane	<	1.0	591-78-6	2-Hexanone	<	1.0
75-00-3	Chloroethane	<	1.0	127-18-4	Tetrachloroethene	<	1.0
75-69-4	Trichlorofluoromethane	<	1.0	142-28-9	1,3-Dichloropropane	<	1.0
75-35-4	1,1-Dichloroethene	<	1.0	124-48-1	Dibromochloromethane	<	1.0
75-65-0	**Tert-butanol; TBA**	<	10	106-93-4	1,2-Dibromoethane	<	1.0
1634-04-4	**Methyl-Tert-butyl ether MTBE**	<	1.0	108-90-7	Chlorobenzene	<	1.0
75-09-2	Methylene chloride	<	1.0	630-20-6	1,1,1,2-Tetrachloroethane	<	1.0
156-60-5	Trans-1,2-dichloroethene	<	1.0	100-41-4	**Ethylbenzene**	<	1.0
108-20-3	**Isopropyl ether DIPE**	<	4.0	108-38-3	**m,p-xylene**	<	1.0
637-92-3	**Ethyl-tert-butyl ether ETBE**	<	4.0	95-47-6	**o-xylene**	<	1.0
994-05-8	**Tert-amyl metyl ether TAME**	<	4.0	100-42-5	Styrene	<	1.0
75-85-4	**Tert-amyl alcohol TAA**	<	40	75-25-2	Bromoform	<	1.0
75-34-3	1,1-Dichloroethane	<	1.0	98-82-8	Isopropylbenzene	<	1.0
67-64-1	Acetone	<	1.0	108-86-1	Bromobenzene	<	1.0
594-20-7	2,2-Dichloropropane	<	1.0	79-34-5	1,1,2,2-Tetrachloroethane	<	1.0
156-59-2	Cis-1,2-dichloroethene	<	1.0	96-18-4	1,2,3-Trichloropropane	<	1.0
75-27-4	Bromochloromethane	<	1.0	103-65-1	N-propylbenzene	<	1.0
67-66-3	Chloroform		2.3	95-49-8	2-Chlorotoluene	<	1.0
71-55-6	1,1,1-Trichloroethane	<	1.0	106-43-4	4-Chlorotoluene	<	1.0
56-23-5	Carbon tetrachloride	<	1.0	108-67-8	1,3,5-Trimethylbenzene	<	1.0
78-3-93	2-Butanone	<	1.0	98-06-6	Tert-butylbenzene	<	1.0
563-58-6	1,1-Dichloropropene	<	1.0	120-82-1	1,2,4-Trimethylbenzene	<	1.0
108-05-4	Vinyl Acetate	<	1.0	135-98-8	Sec-butylbenzene	<	1.0
110-75-8	2-Chloroethylvinyl ether	<	1.0	541-73-1	1,3-Dichlorobenzene	<	1.0
71-43-2	**Benzene**	<	1.0	99-87-6	4-Isopropyltoluene	<	1.0
107-06-2	1,2-Dichloroethane	<	1.0	106-46-7	1,4-Dichlorobenzene	<	1.0
79-01-6	Trichloroethene	<	1.0	95-50-1	1,2-Dichlorobenzene	<	1.0
75-65-0	**Tert-amyl ethyl ether TAEE**	<	4.0	104-51-8	n-Butylbenzene	<	1.0
78-87-5	1,2-Dichloropropane	<	1.0	96-12-8	1,2-Dibromo-3-chloropropan	<	1.0
74-95-3	Dibromomethane	<	1.0	120-82-1	1,2,4-Trichlorobenzene	<	1.0
75-27-4	Bromodichloromethane	<	1.0	87-68-3	Hexachlorobutadiene	<	1.0
10061-01-5	Cis-1,3-dichloropropene	<	1.0	91-20-3	Naphthalene	<	1.0
108-88-3	**Toluene**	<	1.0	87-61-6	1,2,3-Trichlorobenzene	<	1.0

*** **Oxygenates & BTEX in bold**

1/1/2012

Approved Date

Advantage Environmental Consultants, LLC
8610 Washington Blvd., Suite 217 Jessup, Maryland 20794 Phone/Fax: (301) 776-0600/(301) 776-1123

Environmental Sample Chain-of-Custody Record

CLIENT: AEC
TURN-AROUND TIME: Standard
Job Number: 05-056RF-01
Site: RF-1
Sampler (s): J. Wolf

Analyses Requested: Voc+10 by 8242; Voc+10 by 8260; TPH DRO/GRO 8015B

Section to be completed by Laboratory: Initials: Temp: Custody Seal: Y N Sample Storage: VOA ONLY Air Bubble (Y or N) pH: TPH Chlorine Check Na2S2O3

Sample ID	Date	Time	Comp	Grab	Matrix	Preserv. pH	# Bottles	Voc+10 by 8242	Voc+10 by 8260	TPH DRO/GRO 8015B				Comments
PW-1 (IR)	12.22.11	15:39		X	H_2O	HCl/Ice	2	X						
PW-2a (Mid-1)		15:37						X						
PW-2b (Mid-2)		15:36						X						
PW-3 (eff)		15:35						X						
MW-1		15:50					3		X	X				
MW-2		16:02							X	X				
MW-3		16:06							X	X				
MW-4		16:40							X	X				
MW-5		16:50							X	X				
TP-1		16:30							X	X				
TP-2		17:00							X	X				

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	[illegible]	[illegible]	12.22.11 13:30
Relinquished By:	Date/Time	Received By Laboratory:	Date/Time
[illegible]		[illegible]	12/22/11 1420

Report Results To: JWolf@aec-ltd.com
JStein@aec-ltd.com
truszka@aec-ltd.com

Fax: