Corrective Action Process Report /Plan Cover Sheet

CHAPTER 245 STORAGE TANK ACT

(check all that apply to the enclosed submission)

- ☐ **Site Characterization Report – Section 245.310(b)**
- ☐ **Site Characterization Report – Site-Specific Standard**
- ☐ **Site Characterization Report – Statewide Health or Background Standard**
- ☐ **Site Characterization Report PLUS – Statewide Health Standard**
- ☐ **Remedial Action Plan – Statewide Health or Background Standard**
- ☐ **Remedial Action Plan – Site Specific Standard**
- ☒ **Remedial Action Progress Report**
- ☐ **Remedial Action Completion Report – Statewide Health or Background Standard**
- ☐ **Remedial Action Completion Report – Site-Specific Standard**
- ☐ **Post Remediation Care Plan Report**
- ☐ **Environmental Covenant**

Facility Name	**7-Eleven Store No. 28214**
Facility ID Number	**01-11698**
Facility Address	**403 Lincoln Way West**
	New Oxford, PA

AECOM
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Princeton, New Jersey 08540

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Letter of Transmittal

Attention:	Ms. Cherie Campbell Pennsylvania Department of Environmental Protection 909 Elmerton Ave. Harrisburg, PA 17110	Date:	May 26, 2016
Project reference:	Facility ID #01-11698	Project number:	60146445

We are sending you the following:

Number of originals:	Number of copies:	Description:
1		7-Eleven Store #28214 – Remedial Action Progress Report – First Quarter 2016

Remarks: Enclosed is the First Quarter 2016 Remedial Action Progress Report for 7-Eleven Store #28214, located at 403 Lincoln Way West, New Oxford, PA. Please call me at (609) 720-2033 if you have questions. Thank you.

Richard Firely, P.G.
Project Manager
richard.firely@aecom.com

REMEDIAL ACTION PROGRESS REPORT – FIRST QUARTER 2016
7-ELEVEN STORE #28214
403 Lincoln Way West
New Oxford, Pennsylvania
Facility ID No.: 01-11698
AECOM Project No.: 60146445

May 26, 2016

AECOM Contact:	Richard Firely, Project Manager
7-Eleven Contact:	Jose Rios, Manager, Environmental Services

CURRENT SITE STATUS/BACKGROUND

This Remedial Action Progress Report (RAPR) was prepared by AECOM Technical Services, Inc. (AECOM) on behalf of 7-Eleven, Inc. (7-Eleven) for the 7-Eleven facility located at 403 Lincoln Way West, New Oxford, Pennsylvania ("the Site").

During underground storage tank (UST) removal activities in November 2009, a sheen was observed on the ponded water in the UST excavation and a release was reported to the Pennsylvania Department of Environmental Protection (PADEP) on November 16, 2009. Site characterization activities were initiated and completed at the Site between February and April 2010 and were documented in an initial Site Characterization Report (SCR), dated May 13, 2010. The initial SCR was approved with modifications in a PADEP letter dated August 12, 2010 and additional groundwater characterization was requested.

In response to the PADEP letter dated August 12, 2010, supplemental groundwater characterization activities were conducted between 2010 and 2014. These activities included the installation of additional on-property and off-property monitoring wells to further delineate and characterize constituents of concern (COCs) in groundwater and groundwater flow direction in the shallow and intermediate monitored portions of the aquifer. These activities were documented in a Summary of Site Characterization Activities Letter dated April 16, 2014. Based on the results of the groundwater investigation conducted through April 2014, additional investigation of the deeper portion of the aquifer was proposed to the PADEP. The PADEP approved the deeper aquifer investigation activities in correspondence dated May 20, 2014.

A Site Characterization Report Addendum (SCRA) dated January 6, 2015 was prepared by AECOM, on behalf of 7-Eleven, to document Site characterization activities completed since the May 13, 2010 initial SCR submittal; to address the modifications/comments outlined in the August 12, 2010 PADEP SCR approval letter; and, summarizes the results of groundwater characterization activities outlined and approved by the PADEP in the April 16, 2014 Summary of Site Characterization Activities Letter.

In PADEP correspondence dated February 2, 2015, the January 6, 2015 SCRA was disapproved, outlining requirements for evaluation of the soil vapor pathway and sampling methodologies; additional information pertaining to well search activities and soil attainment; and, additional characterization of groundwater impacts.

Table 1 includes a Well Construction Summary and **Figure 1** includes a Site Plan illustrating the monitoring well locations.

ACTIVITIES THIS QUARTER

This report covers groundwater monitoring activities conducted on February 1-2, 2016.

SITE VISITS/FIELD ACTIVITIES

Quarterly Sampling

On February 1-2, 2016, depth to groundwater measurements, groundwater quality field measurements, and groundwater samples were collected from MW-1, MW-2, MW-3, MW-3A, MW-3D, MW-4, MW-5, MW-6, MW-6A, MW-6D, MW-7, MW-7A, MW-7D, MW-8, MW-8A, MW-8D, and MW-9D. Please note that observation monitoring well, MW-9D was installed to a depth of 55 feet at a significantly different interval than the other intermediate monitoring wells, reflecting a different average potentiometric pressure which should not be used unless warranted. Therefore, water level data from this well are not used here. Depth to groundwater measurements and water table elevation data are included as **Tables 2** and **3**, respectively.

Depth to Groundwater

February 2016

During the February 1, 2016 groundwater gauging event, depth to groundwater in the shallow water bearing zone ranged from 3.66-feet (ft.) below top of casing (bTOC) in MW-7A to 7.74-ft. bTOC in MW-8A, in the intermediate water bearing zone from 4.99-ft. bTOC in MW-5 to 15.22-ft. bTOC in MW-6, and in the deep water bearing zone from 8.77-ft. bTOC in MW-7D to 16.77-ft bTOC in MW-6D. No separate phase hydrocarbons (SPH) were observed in the 17 on and off-site monitoring wells gauged. Based on the February 1, 2016 gauging data, the inferred groundwater flow direction within the on-site, shallow water-bearing zone wells is toward the southwest, to the north-northwest in the off-site, intermediate water bearing zone wells, and toward the north-northeast in the deep water-bearing zone wells. Groundwater elevation contour maps prepared using February 1, 2016 gauging information obtained from shallow (MW-3A, MW-6A, MW-7A, and MW-8A), intermediate (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8), and deep (MW-3D, MW-6D, MW-7D, and MW-8D) wells and are included as **Figures 2, 3, and 4**, respectively.

Groundwater Analytical Summary

Groundwater sampling was conducted in accordance with the PADEP Groundwater Monitoring Guidance Manual (December 2001). Groundwater sample collection records and field notes from the February 1-2, 2016 sampling event are included in **Attachment A**. **Attachment B** includes the methodology for the groundwater sampling conducted on February 1-2, 2016.

Groundwater samples, a field blank, and trip blank were analyzed for the PA Short Lists for Unleaded and Leaded Gasoline, which includes benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), cumene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and 1,2-Dicholoethane (EDC) via United States Environmental Protection Agency (USEPA) SW-846 Method 8260B, 1,2-Dibromethane (EDB) via USEPA SW-846 Method 8011, and dissolved lead via USEPA SW-846 Method 6010B. **Attachment C** includes the February 1-2, 2016 laboratory analytical report and **Table 4** includes a summary of the current and historic groundwater analytical results.

No COCs were detected in either the field blank or trip blank samples during the February 1-2, 2016 sampling event.

The following presents a discussion of groundwater analytical results from monitoring wells which currently exhibit MTBE concentrations above the PADEP SHS MSCs for residential, used aquifers with total dissolved solids (TDS) less than or equal to 2,500 parts per million (GW_{RU}):

- During the February 2016 sampling event MTBE was detected above the GW_{RU} of 20 micrograms per liter (µg/L) at MW-1 (37.2 µg/L) MW-3A (62.3 µg/L), MW-6A (379 µg/L), MW-8A (188 µg/L), MW-3 (517 µg/L), MW-4 (283 µg/L), MW-7 (29.5 µg/L), MW-8 (65 µg/L), MW-6D (47.4 µg/L), and MW-7D (1,370 µg/L).

MTBE Isoconcentration maps were prepared using February 1-2, 2016 groundwater analytical data and are included as **Figures 5, 6, and 7,** respectively.

Data Quality Analysis

There were no data quality issues identified in the February 1-2, 2016 lab data.

FUTURE SITE ACTIVITIES AND COMMENTS

The next groundwater sampling event is scheduled for May 2016.

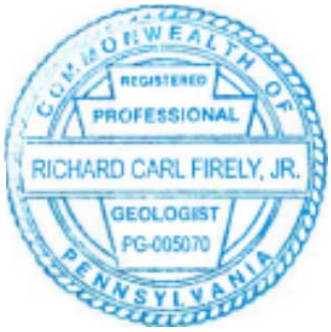
The information provided in this report is based upon the data available at the time this report was prepared. Please contact Richard Firely at (609) 720-2033 if you have questions regarding this Remedial Action Progress Report.

Sincerely,

AECOM

Courtney Hanrahan
Project Manager

Richard Firely
Project Manager
PA PG License No. 005070



The professional geologist seal and the following certification applies to the geologic and hydrogeologic portions of this report only: By affixing my seal to this document I am certifying that the information is true and correct. I further certify that I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

List of Attachments:

List of Tables:

List of Figures:

TABLES

TABLE 1
Well Construction Summary
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

WELL	DATE INSTALLED	STATUS	INSIDE DIAMETER (in)	TOTAL DEPTH (ft)	SCREEN LENGTH (ft)	APPROXIMATE SCREENED INTERVAL (ft bgs)	APPROXIMATE OPEN HOLE INTERVAL (ft bgs)	TOP OF PVC ELEVATION (ft)	APPROX. TOP OF SCREEN ELEVATION
Shallow Interval Monitoring Wells									
MW-3A	9/25/2012	ACTIVE	6	24.0	--	--	9.0-24.0	527.51	--
MW-6A	9/25/2012	ACTIVE	6	26.0	--	--	11.5-26.0	528.27	--
MW-7A	11/16/2012	ACTIVE	6	23.0	--	--	10.5-23.0	524.40	--
MW-8A	11/15/2012	ACTIVE	6	24.0	--	--	11.0-24.0	526.84	--
Intermediate Interval Monitoring Wells									
MW-1	2/18/2010	ACTIVE	2	55.3	15	40.3-55.3	--	528.15	487.85
MW-2	2/18/2010	ACTIVE	2	55.2	15	40.2-55.2	--	528.17	487.97
MW-3	2/18/2010	ACTIVE	2	55.3	15	40.3-55.3	--	528.07	487.77
MW-4	2/22/2010	ACTIVE	2	52.4	15	37.4-52.4	--	527.68	490.28
MW-5	7/12/2011	ACTIVE	2	50.0	15	35.0-50.0	--	525.93	490.93
MW-6	7/12/2011	ACTIVE	2	54.0	15	39.0-54.0	--	528.41	489.41
MW-7	11/15/2012	ACTIVE	2	52.0	15	37.0-52.0	--	524.36	487.36
MW-8	11/14/2012	ACTIVE	2	54.0	15	39.0-54.0	--	526.81	487.81
MW-9D	12/3/2013	ACTIVE	6	55.0	--	--	20-55	526.28	--
Deeper Interval Monitoring Wells									
MW-3D	5/20/2014	ACTIVE	2	75.0	15	59.5-74.5	--	527.83	468.33
MW-6D	5/20/2014	ACTIVE	2	72.0	15	56.5-71.5	--	528.67	472.17
MW-7D	5/20/2014	ACTIVE	2	75.0	15	59.5-74.5	--	524.54	465.04
MW-8D	5/20/2014	ACTIVE	2	75.0	15	59.5-74.5	--	526.21	466.71

Notes:
bgs = Below ground surface
in = Inches
ft = Feet
NOTE: The site was surveyed by Vargo Associates on June 25, 2014.
-- = Not applicable

TABLES 2 and 3
Summary of Depth to Groundwater Measurements and Water Table Elevation Data
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Table 2 - Depth to Groundwater Measurements (feet bTOC)

	Shallow Interval Monitoring Wells				Intermediate Interval Monitoring Wells									Deeper Interval Monitoring Wells			
Date of Measurement	MW-3A	MW-6A	MW-7A	MW-8A	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9D	MW-3D	MW-6D	MW-7D	MW-8D
3/19/2010	NM	NM	NM	NM	7.50	10.41	7.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/7/2010	NM	NM	NM	NM	9.53	11.68	9.12	9.47	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/9/2010	NM	NM	NM	NM	10.81	13.36	11.92	11.04	NM	NM	NM	NM	NM	NM	NM	NM	NM
1/19/2011	NM	NM	NM	NM	11.99	14.31	13.56	11.95	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/12/2011	NM	NM	NM	NM	9.19	11.07	10.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
7/26/2011	NM	NM	NM	NM	11.25	14.28	13.09	12.04	7.00	41.86	NM	NM	NM	NM	NM	NM	NM
10/11/2011	NM	NM	NM	NM	10.47	11.62	9.81	9.04	6.18	8.52	NM	NM	NM	NM	NM	NM	NM
12/29/2011	NM	NM	NM	NM	8.80	9.92	9.61	9.01	5.57	6.24	NM	NM	NM	NM	NM	NM	NM
1/17/2012	NM	NM	NM	NM	9.48	10.10	10.31	9.22	5.85	6.44	NM	NM	NM	NM	NM	NM	NM
4/26/2012	NM	NM	NM	NM	9.74	10.73	10.78	10.12	6.16	9.41	NM	NM	NM	NM	NM	NM	NM
10/8/2012	9.18	21.76	NM	NM	9.06	9.11	10.24	9.00	5.58	8.88	NM	NM	NM	NM	NM	NM	NM
11/16/2012	4.12	14.38	NM	NM	9.47	10.31	10.50	9.69	5.27	12.48	NM	NM	NM	NM	NM	NM	NM
12/20/2012	4.55	9.62	4.34	11.66	9.61	10.95	10.57	5.35	5.49	11.06	7.01	9.32	NM	NM	NM	NM	NM
3/28/2013	3.50	6.52	0.95	7.06	9.26	10.30	10.32	9.28	5.14	23.90	5.32	10.08	NM	NM	NM	NM	NM
6/25/2013	4.88	8.64	3.63	8.00	10.91	12.02	11.61	10.85	6.58	9.65	7.96	10.12	NM	NM	NM	NM	NM
9/10/2013	3.39	10.21	4.43	8.73	11.24	18.48	12.04	11.11	6.43	13.65	7.07	10.71	NM	NM	NM	NM	NM
12/18/2013	3.72	6.71	1.29	7.42	8.71	19.54	9.26	8.46	5.18	11.37	3.80	7.70	3.18	9.35	8.93	NM	NM
2/10/2014	4.44	8.71	1.76	8.38	8.89	9.60	9.51	1.28	4.73	14.32	5.33	7.98	3.26	9.60	8.32	NM	NM
5/5/2014	2.86	6.08	1.42	6.99	8.47	14.46	9.10	8.42	4.89	11.75	4.75	7.63	2.76	9.15	7.64	NM	NM
5/21/2014	4.50	17.97	4.50	12.15	13.65	12.60	13.55	NM	6.06	33.80	6.37	10.60	4.73	46.30	15.55	9.42	10.60
5/27/2014	4.59	16.50	3.94	10.74	10.22	10.32	13.04	10.90	5.81	29.29	6.06	9.34	4.89	12.32	13.80	9.24	10.83
6/25/2014	4.71	10.50	4.25	8.36	10.44	11.22	11.43	10.50	5.89	17.50	6.24	9.11	5.14	12.35	13.79	9.49	10.54
8/11/2014	4.84	8.12	4.42	8.54	10.83	11.90	11.60	10.96	6.47	14.89	6.52	9.48	5.13	11.38	13.19	9.93	11.90
11/10/2014	5.11	7.74	5.11	8.96	10.61	11.81	11.19	9.14	6.35	14.12	6.90	9.55	5.53	12.36	13.56	9.61	10.33
2/18/2015	4.53	6.56	2.16	7.48	10.14	11.02	10.59	9.81	7.52	11.00	4.78	8.66	4.74	11.57	14.78	8.50	13.35
5/18/2015	4.94	7.63	4.46	9.14	11.20	12.30	12.03	11.48	8.34	21.07	6.24	9.92	5.32	13.48	14.49	10.05	12.84
8/17/2015	4.99	7.65	4.71	9.20	11.51	12.81	11.29	11.32	7.22	14.31	6.74	10.13	5.43	10.14	15.02	8.47	11.88
11/17/2015	4.74	7.72	3.85	8.55	10.21	11.12	11.04	10.40	7.12	13.86	6.67	8.97	4.90	14.66	14.05	9.16	12.10
2/1/2016	4.43	7.30	3.66	7.74	9.70	10.47	10.70	10.02	4.99	15.22	5.68	8.40	4.19	14.76	16.77	8.77	10.11

Table 3 - Water Table Elevation Data (feet)

	Shallow Interval Monitoring Wells				Intermediate Interval Monitoring Wells									Deeper Interval Monitoring Wells			
Date of Measurement	MW-3A	MW-6A	MW-7A	MW-8A	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9D	MW-3D	MW-6D	MW-7D	MW-8D
Reference Elevation	*99.29*	*100.05*	*96.17*	*98.62*	*99.96*	*100.00*	*99.84*	*99.47*	*97.69*	*100.18*	*96.14*	*98.58*	*NM*	*NM*	*NM*	*NM*	*NM*
3/19/2010	NM	NM	NM	NM	92.46	89.59	92.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/7/2010	NM	NM	NM	NM	90.43	88.32	90.72	90.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/9/2010	NM	NM	NM	NM	89.15	86.64	87.92	88.43	NM	NM	NM	NM	NM	NM	NM	NM	NM
1/19/2011	NM	NM	NM	NM	87.97	85.69	86.28	87.52	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/12/2011	NM	NM	NM	NM	90.77	88.93	88.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
7/26/2011	NM	NM	NM	NM	88.71	85.72	86.75	87.43	90.69	58.32	NM	NM	NM	NM	NM	NM	NM
10/11/2011	NM	NM	NM	NM	89.49	88.38	90.03	90.43	91.51	91.66	NM	NM	NM	NM	NM	NM	NM
12/29/11	NM	NM	NM	NM	91.16	90.08	90.23	90.46	92.12	93.94	NM	NM	NM	NM	NM	NM	NM
1/17/2012	NM	NM	NM	NM	90.48	89.90	89.53	90.25	91.84	93.74	NM	NM	NM	NM	NM	NM	NM
4/26/2012	NM	NM	NM	NM	90.22	89.27	89.06	89.35	91.53	90.77	NM	NM	NM	NM	NM	NM	NM
10/8/2012	90.11	78.29	NM	NM	90.90	90.89	89.60	90.47	92.11	91.30	NM	NM	NM	NM	NM	NM	NM
11/16/2012	95.17	85.67	NM	NM	90.49	89.69	89.34	89.78	92.42	87.70	NM	NM	NM	NM	NM	NM	NM
12/20/2012	94.74	90.43	91.83	86.96	90.35	89.05	89.27	94.12	92.20	89.12	89.13	89.26	NM	NM	NM	NM	NM
3/28/2013	95.79	93.53	95.22	91.56	90.70	89.70	89.52	90.19	92.55	76.28	90.82	88.50	NM	NM	NM	NM	NM
6/25/2013	94.41	91.41	92.54	90.62	89.05	87.98	88.23	88.62	91.11	90.53	88.18	88.46	NM	NM	NM	NM	NM
**Reference Elevation*	*527.51*	*528.27*	*524.40*	*526.84*	*528.15*	*528.17*	*528.07*	*527.68*	*525.93*	*528.41*	*524.36*	*526.81*	*526.28*	*527.83*	*528.67*	*524.54*	*526.21*
9/10/2013	524.12	518.06	519.97	518.11	516.91	509.69	516.03	516.57	519.50	514.76	517.29	516.10	NM	NM	NM	NM	NM
12/18/2013	523.79	521.56	523.11	519.42	519.44	508.63	518.81	519.22	520.75	517.04	520.56	519.11	523.10	518.48	519.74	NM	NM
2/10/2014	523.07	519.56	522.64	518.46	519.26	518.57	518.56	526.40	521.20	514.09	519.03	518.83	523.02	518.23	520.35	NM	NM
5/5/2014	524.65	522.19	522.98	519.85	519.68	513.71	518.97	519.26	521.04	516.66	519.61	519.18	523.52	518.68	521.03	NM	NM
**5/21/2014	523.01	510.30	519.90	514.69	514.50	515.57	514.52	NM	519.87	494.61	517.99	516.21	521.55	481.53	513.12	515.12	515.61
**5/27/2014	522.92	511.77	520.46	516.10	517.93	517.85	515.03	516.78	520.12	499.12	518.30	517.47	521.39	515.51	514.87	515.30	515.38
**6/25/2014	522.80	517.77	520.15	518.48	517.71	516.95	516.64	517.18	520.04	510.91	518.12	517.70	521.14	515.48	514.88	515.05	515.67
**8/11/2014	522.67	520.15	519.98	518.30	517.32	516.27	516.47	516.72	519.46	513.52	517.84	517.33	521.15	516.45	515.48	514.61	514.31
11/10/2014	522.40	520.53	519.29	517.88	517.54	516.36	516.88	518.54	519.58	514.29	517.46	517.26	520.75	515.47	515.11	514.93	515.88
2/18/2015	522.98	521.71	522.24	519.36	518.01	517.15	517.48	517.87	518.41	517.41	519.58	518.15	521.54	516.26	513.89	516.04	512.86
5/18/2015	522.57	520.64	519.94	517.70	516.95	515.87	516.04	516.20	517.59	507.34	518.12	516.89	520.96	514.35	514.18	514.49	513.37
8/17/2015	522.52	520.62	519.69	517.64	516.64	515.36	516.78	516.36	518.71	514.10	517.62	516.68	520.85	517.69	513.65	516.07	514.33
11/17/2015	522.77	520.55	520.55	518.29	517.94	517.05	517.03	517.28	518.81	514.55	517.69	517.84	521.38	513.17	514.62	515.38	514.11
2/1/2016	523.08	520.97	520.74	519.10	518.45	517.70	517.37	517.66	520.94	513.19	518.68	518.41	522.09	513.07	511.90	515.77	516.10

Notes: NM = Not measured
bTOC = Below top of casing
*The Site was surveyed by Vargo Associates on May 6, 2014.
**- MW-3D and MW-6D were extended to 75 feet bgs between 5/19/14 and 5/20/14 and were re-surveyed on 6/25/14. The current reference elevation reflects the updated survey information. Water Table elevation measurements collected since 9/10/13 have been updated utilizing the udpated survey/elevation information.

TABLE 4
Summary of Groundwater Analytical Results
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Sample Locations	Sample Dates	Parameters												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	EDC	Cumene	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	EDB	Lead (Dissolved)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PADEP GW_{RU}		5	1,000	700	10,000	100	5	840	20	15	13	0.05	5
MW-3A	10/8/2012	3.5 J	ND@2.3	ND@2.3	ND@2.4	ND@11	ND@2.6	ND@4.5	**1300**	ND@1.9	ND@3.6	ND@0.011	ND@3.0
	12/20/2012	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**1060[a]**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
Shallow	3/28/2013	1.5 J	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**1040[a]**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
Interval	6/25/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**831**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	9/11/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**234**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**387[a]**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/11/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**387**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/6/2014	0.32 J	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**316[a]**	ND@0.23	ND@0.43	ND@0.011	**ND@6.0**
	8/12/2014	0.69 J	ND@0.44	ND@0.79	ND@0.40	ND@0.69	ND@0.60	ND@0.51	**254**	ND@0.37	ND@0.35	ND@0.0081	**10.2**
	11/11/2014	0.81 J	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**258[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**143**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**186**	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**155**	ND@1.0	ND@1.0	ND@0.0197	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**56.5**	ND@1.0	ND@1.0	ND@0.0198	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**62.3**	ND@1.0	ND@1.0	ND@0.0095	ND@2.0
MW-6A	10/8/2012	ND@5.9	ND@5.7	ND@5.7	ND@6	ND@28	ND@6.5	ND@11	**2870**	ND@4.6	ND@9	ND@0.011	ND@3.0
	12/20/2012	ND@2.4	ND@2.3	ND@2.3	ND@2.4	ND@11	ND@2.6	ND@4.5	**2550[a]**	ND@1.9	ND@3.6	ND@0.011	ND@3.0
Shallow	3/28/2013	ND@2.4	ND@2.3	ND@2.3	ND@2.4	ND@11	ND@2.6	ND@4.5	**1710**	ND@1.9	ND@3.6	ND@0.011	ND@3.0
Interval	6/25/2013	ND@0.59	ND@0.57	ND@0.57	ND@0.60	ND@2.8	ND@0.65	ND@1.1	**987[a]**	ND@0.46	ND@0.90	ND@0.011	ND@3.0
	9/11/2013	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	ND@0.52	ND@0.89	**816**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**984[a]**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/11/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**1150**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/6/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**112**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	0.72 J	ND@0.30	ND@0.26	**109**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/14/2014	ND@1.0	ND@1.1	ND@2.0	ND@1.0	ND@1.7	ND@1.5	ND@1.3	**1,740[a]**	ND@0.93	ND@0.87	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**781[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**23.6**	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0197	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**316**	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**379**	ND@1.0	ND@1.0	ND@0.0095	ND@2.0
MW-7A	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	2.8	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	0.86 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
Shallow	6/25/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	0.45 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
Interval	9/11/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	0.31 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	0.53 J	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	0.53 J	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	0.28 J	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0196	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	1.19	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0194	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-8A	12/20/2012	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	ND@0.52	ND@0.89	**789[a]**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
	3/28/2013	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	ND@0.52	ND@0.89	**655**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
Shallow	6/25/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**615**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
Interval	9/11/2013	0.80 J	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**279**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**229**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	0.33 J	ND@0.22	**356**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**37.1**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	**5.6**	ND@0.22	ND@0.40	0.21 J	ND@0.34	ND@0.30	ND@0.26	**122**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	0.38 J	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**134**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	0.40 J	0.70 J	ND@0.30	ND@0.26	**253[a]**	0.85 J	0.21 J	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**217**	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	8/17/2015	4.18	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**220**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**102**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**188**	ND@1.0	ND@1.0	ND@0.0096	ND@2.0

Notes:

PADEP: Pennsylvania Department of Environmental Protection
GW_{RU}: PADEP Medium Specific Concentrations for a Residential, Used Aquifer
MTBE: Methyl tertiary-butyl ether
ND@'X': Not detected at method detection limit limit of 'X'
µg/L : Micrograms per liter
Cumene: Isopropylbenzene
EDC: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane
J: Indicates an estimated value
BOLD Method Detection Limit exceeds GW_{RU}
BOLD Concentration exceeds GW_{RU}
"a": Result from diluted sample

TABLE 4
Summary of Groundwater Analytical Results
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Sample Locations	Sample Dates	Parameters											
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	EDC	Cumene	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	EDB	Lead (Dissolved)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PADEP GW_{RU}		5	1,000	700	10,000	100	5	840	20	15	13	0.05	5
MW-1	3/10/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	**32.3**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	4/7/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	0.99 J	ND@0.57	**32.4**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	1/19/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	6.1	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Intermediate	4/12/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	9.9	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Interval	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	9.6	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	4.5	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	1/17/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	0.60 J	ND@0.19	**25.1**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	4/26/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	0.26 J	ND@0.19	11.4	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/8/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	14.9	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	0.88 J	ND@0.45	**44.5**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	0.78 J	ND@0.45	**49.1**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	6/25/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	14.1	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**25.9**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	17.1	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	12	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**33.3**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**20.1**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	0.30 J	ND@0.34	ND@0.30	ND@0.26	13.7	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@ 0.20	ND@0.34	ND@0.30	ND@0.26	18.8	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	17	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**31.1**	ND@1.0	ND@1.0	ND@0.0197	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	8.72	ND@1.0	ND@1.0	ND@0.020	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	0.576	ND@1.0	**37.2**	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-2	3/10/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	ND@0.23	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	4/7/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	1.2	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	1/19/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	0.79 J	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Intermediate	4/12/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	ND@0.33	ND@0.57	2.2	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Interval	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	0.26 J	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	ND@0.18	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	1/17/2012	0.65 J	9.2	3.8	8.1	ND@0.68	0.31 J	0.60 J	0.26 J	0.47 J	0.76 J	ND@0.011	ND@3.0
	4/26/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	0.31 J	ND@0.19	0.24 J	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/8/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	0.26 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	0.35 J	ND@0.45	0.26 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	0.30 J	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	6/25/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0096	ND@2.0

Notes:

PADEP: Pennsylvania Department of Environmental Protection
GW_{RU}: PADEP Medium Specific Concentrations for a Residential, Used Aquifer
MTBE: Methyl tertiary-butyl ether
ND@'X': Not detected at method detection limit limit of 'X'
µg/L : Micrograms per liter
Cumene: Isopropylbenzene
EDC: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane
J: Indicates an estimated value
BOLD Method Detection Limit exceeds GW_{RU}
BOLD Concentration exceeds GW_{RU}
[a]: Result from diluted sample

TABLE 4
Summary of Groundwater Analytical Results
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Sample Locations	Sample Dates	Parameters											
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	EDC	Cumene	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	EDB	Lead (Dissolved)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PADEP GW_{RU}		5	1,000	700	10,000	100	5	840	20	15	13	0.05	5
MW-3	3/10/2010	1.0	ND@0.30	ND@0.27	ND@0.25	ND@0.97	**7.6**	ND@0.57	**2190**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	4/7/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	**7.0**	ND@0.57	**1550**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	1/19/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	4.7	ND@0.57	5.8	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Intermediate	4/12/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	3.1	ND@0.57	**1770**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Interval	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	2.4	ND@0.19	**801**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	2.4	ND@0.19	**669**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	1/17/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	3.4	ND@0.19	**1070**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	4/26/2012	ND@1.1	ND@0.73	ND@1.1	ND@0.87	ND@3.4	4.3 J	ND@0.97	**1220[a]**	ND@0.90	ND@1.1	ND@0.011	ND@3.0
	10/8/2012	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**1360[a]**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	12/20/2012	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	3.5 J	ND@2.2	**980**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	3/28/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	4.0 J	ND@2.2	**1190[a]**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	6/25/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	2.5 J	ND@2.2	**612**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	2.4	ND@0.45	**548**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	4.4	ND@0.22	**260**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/11/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**117**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/6/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**22.6**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	3.0	ND@0.26	**577[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	0.32 J	ND@0.34	ND@0.30	ND@0.26	**993[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**445[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**273**	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	1.25	ND@1.0	**351**	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**42.5**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	2.75	ND@1.0	**517**	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-4	3/10/2010	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	4.2	ND@0.57	**1160**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	4/7/2010	0.46 J	1.5	ND@0.27	1.1	ND@0.97	3.1	ND@0.57	**962**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
	1/19/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	2.3	ND@0.57	**862**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Intermediate	4/12/2011	ND@0.23	ND@0.30	ND@0.27	ND@0.25	ND@0.97	2.3	ND@0.57	**1240**	ND@0.28	ND@0.30	ND@0.011	ND@3.0
Interval	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	2.6	ND@0.19	**902**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	0.55 J	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	**319**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	1/17/2012	ND@0.22	5.4	ND@0.21	ND@0.17	ND@0.68	1.9	ND@0.19	**875**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	4/26/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	2.2	ND@0.19	**783[a]**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/8/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**272[a]**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	1.0	ND@0.45	**283[a]**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	1.9 J	ND@0.89	**931[a]**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
	6/25/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	2.1 J	ND@2.2	**612**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	2.1	ND@0.45	**754**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	1.8 J	ND@0.22	**707[a]**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**509**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	0.77 J	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**565[a]**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/12/2014	ND@0.21	0.31 J	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	9.7	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**437[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	0.99 J	ND@0.26	**533[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**475**	ND@1.0	ND@1.0	ND@0.0198	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	1.51	ND@1.0	**719**	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**354**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	1.13	ND@1.0	**283**	ND@1.0	ND@1.0	ND@0.0093	ND@2.0

Notes:

PADEP: Pennsylvania Department of Environmental Protection
GW_{RU}: PADEP Medium Specific Concentrations for a Residential, Used Aquifer
MTBE: Methyl tertiary-butyl ether
ND@'X': Not detected at method detection limit limit of 'X'
µg/L : Micrograms per liter
Cumene: Isopropylbenzene
EDC: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane
J: Indicates an estimated value
BOLD Method Detection Limit exceeds GW_{RU}
BOLD Concentration exceeds GW_{RU}
[a]: Result from diluted sample

TABLE 4
Summary of Groundwater Analytical Results
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Sample Locations	Sample Dates	Parameters											
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	EDC	Cumene	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	EDB	Lead (Dissolved)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PADEP GW_{RU}		5	1,000	700	10,000	100	5	840	20	15	13	0.05	5
MW-5	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	ND@0.18	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	ND@0.18	ND@0.18	ND@0.23	ND@0.011	ND@3.0
Intermediate	1/17/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	ND@0.18	ND@0.18	ND@0.23	ND@0.011	ND@3.0
Interval	4/26/2012	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	ND@0.18	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/8/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	0.25 J	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	6/25/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	ND@0.16	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	ND@0.29	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0198	ND@2.0
	8/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0196	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0095	ND@2.0
MW-6	7/26/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	**1040**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
	10/11/2011	ND@0.22	ND@0.15	ND@0.21	ND@0.17	ND@0.68	ND@0.18	ND@0.19	**1120**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
Intermediate	1/17/2012	ND@0.22	3	ND@0.21	ND@0.17	ND@0.68	0.29 J	ND@0.19	**1180**	ND@0.18	ND@0.23	ND@0.011	ND@3.0
Interval	4/26/2012	ND@2.2	ND@1.5	ND@2.1	ND@1.7	ND@6.8	ND@1.8	ND@1.9	**1230**	ND@1.8	ND@2.3	ND@0.011	ND@3.0
	10/8/2012	ND@0.59	ND@0.57	ND@0.57	ND@0.6	ND@2.8	ND@0.65	ND@1.1	**932[a]**	ND@0.46	ND@0.9	ND@0.011	ND@3.0
	12/20/2012	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**991**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	3/28/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**986[a]**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	6/25/2013	ND@1.2	ND@1.1	ND@1.1	ND@1.2	ND@5.5	ND@1.3	ND@2.2	**760**	ND@0.93	ND@1.8	ND@0.011	ND@3.0
	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	1.1	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**146**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/11/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**949**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/6/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	19.3	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	0.30 J	ND@0.34	ND@0.30	ND@0.26	**24**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**254[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	14.5	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0197	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0204	ND@2.0
	2/2/2016	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	0.54	0.540	ND@1.0	ND@0.0095	ND@2.0

Notes:

PADEP: Pennsylvania Department of Environmental Protection
GW_{RU}: PADEP Medium Specific Concentrations for a Residential, Used Aquifer
MTBE: Methyl tertiary-butyl ether
ND@'X': Not detected at method detection limit limit of 'X'
µg/L : Micrograms per liter
Cumene: Isopropylbenzene
EDC: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane
J: Indicates an estimated value
BOLD Method Detection Limit exceeds GW_{RU}
BOLD Concentration exceeds GW_{RU}
[a]: Result from diluted sample

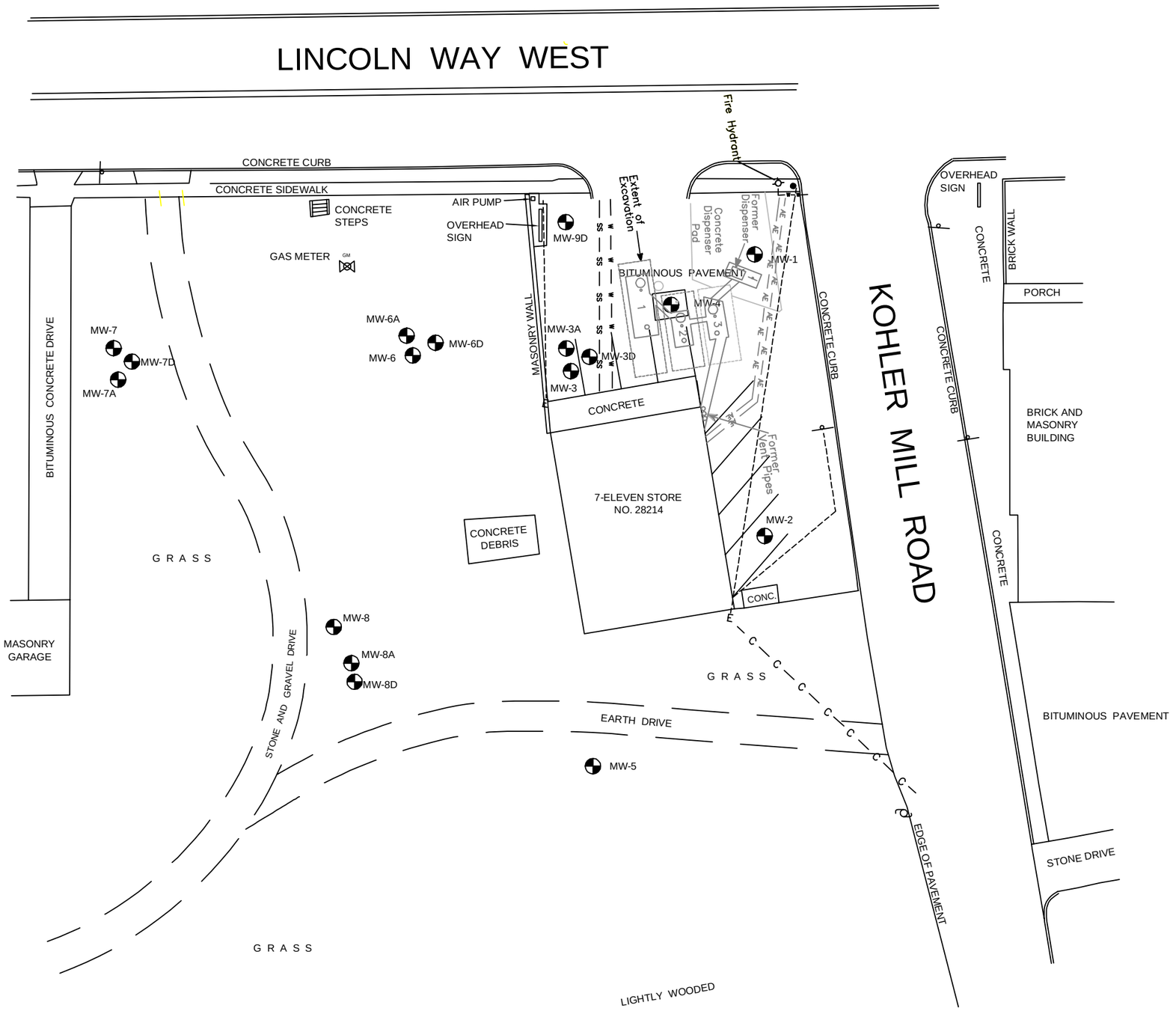
TABLE 4
Summary of Groundwater Analytical Results
7-Eleven Store # 28214
403 Lincoln Way West
New Oxford, Pennsylvania

Sample Locations	Sample Dates	Parameters											
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	EDC	Cumene	MTBE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	EDB	Lead (Dissolved)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
PADEP GW_{RU}		5	1,000	700	10,000	100	5	840	20	15	13	0.05	5
MW-7	12/20/2012	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	ND@0.52	ND@0.89	**855[a]**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
	3/28/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**274**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
Intermediate	6/25/2013	ND@0.59	ND@0.57	ND@0.57	ND@0.60	ND@2.8	ND@0.65	ND@1.1	**477**	ND@0.46	ND@0.90	ND@0.011	ND@3.0
Interval	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	ND@0.26	ND@0.45	**152**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**194**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**127**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	ND@0.22	ND@0.22	**786[a]**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**21.5**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	0.78 J	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	1.84	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	14.7	ND@1.0	ND@1.0	ND@0.02	2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**31.2**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**29.5**	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-8	12/20/2012	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	**18.1**	ND@0.45	**526**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	3/28/2013	ND@0.47	ND@0.45	ND@0.46	ND@0.48	ND@2.2	**11.6**	ND@0.89	**389**	ND@0.37	ND@0.72	ND@0.011	ND@3.0
Intermediate	6/25/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	**11.9**	ND@0.45	**104**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
Interval	9/10/2013	ND@0.24	ND@0.23	ND@0.23	ND@0.24	ND@1.1	**8.7**	ND@0.45	**514**	ND@0.19	ND@0.36	ND@0.011	ND@3.0
	12/18/2013	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	**7.6**	ND@0.22	**443[a]**	ND@0.23	ND@0.43	ND@0.020	ND@3.0
	2/10/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	**9.8**	ND@0.22	**307**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	5/5/2014	ND@0.28	ND@0.44	ND@0.21	ND@0.19	ND@0.25	**6.2**	ND@0.22	**392[a]**	ND@0.23	ND@0.43	ND@0.011	ND@3.0
	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	2.2	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	18.9	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	6.7	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**21.4**	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**39.4**	ND@1.0	ND@1.0	ND@0.0205	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**41.1**	ND@1.0	ND@1.0	ND@0.0197	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	0.847	ND@1.0	**65.0**	ND@1.0	ND@1.0	ND@0.0097	ND@2.0
MW-3D	5/27/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**41**	ND@0.19	ND@0.17	ND@0.011	ND@3.0
Deeper	6/25/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	0.39 J	ND@0.26	**66.8**	ND@0.19	ND@0.17	ND@0.011	ND@3.0
Interval	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	0.55 J	ND@0.26	2.1	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	0.23 J	ND@0.34	ND@0.30	ND@0.26	**34**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@ 0.20	ND@0.34	ND@0.30	ND@0.26	5.7	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	10.1	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	19.1	ND@1.0	ND@1.0	ND@0.02	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	7.8	ND@1.0	ND@1.0	ND@0.0203	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	6.85	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-6D	5/27/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	4.5	ND@0.26	**688[a]**	ND@0.19	ND@0.17	ND@0.011	ND@3.0
Deeper	6/25/2014	ND@0.84	ND@0.88	ND@1.6	ND@0.80	ND@1.4	**6.7**	ND@1.0	**715**	ND@0.74	ND@0.70	ND@0.011	ND@3.0
Interval	8/12/2014	ND@1.0	ND@1.1	ND@2.0	ND@1.0	ND@1.7	ND@1.5	ND@1.3	**734**	ND@0.93	ND@0.87	ND@0.0081	ND@3.0
	11/11/2014	ND@0.21	ND@0.22	ND@0.40	0.41 J	ND@0.34	ND@0.30	ND@0.26	**508[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/19/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	1.1	ND@0.26	**115**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/19/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**61.9**	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**61.2**	ND@1.0	ND@1.0	ND@0.02	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**47.7**	ND@1.0	ND@1.0	ND@0.0205	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**47.4**	ND@1.0	ND@1.0	ND@0.0097	ND@2.0
MW-7D	5/27/2014	ND@2.1	ND@2.2	ND@4.0	ND@2.0	ND@3.4	ND@3.0	ND@2.6	**1730**	ND@1.9	ND@1.7	ND@0.011	ND@3.0
Deeper	6/25/2014	ND@1.0	ND@1.1	ND@2.0	1.6 J	ND@1.7	ND@1.5	ND@1.3	**1450[a]**	ND@0.93	ND@0.87	ND@0.011	ND@3.0
Interval	8/11/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	**973[a]**	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@2.1	ND@2.2	ND@4.0	ND@2.0	ND@3.4	ND@3.0	ND@2.6	**1,790**	ND@1.9	ND@1.7	ND@0.0081	ND@3.0
	2/18/2015	ND@1.0	ND@1.1	ND@2.0	ND@1.0	ND@1.7	ND@1.5	ND@1.3	**1920[a]**	ND@0.93	ND@0.87	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@1.0	**1570**	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	8/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**2100**	ND@1.0	ND@1.0	ND@0.0202	ND@2.0
	11/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	**1280**	ND@1.0	ND@1.0	ND@0.0198	ND@2.0
	2/2/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	0.457	ND@1.0	**1370**	ND@1.0	ND@1.0	ND@0.0096	ND@2.0
MW-8D	5/27/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	3.7	ND@0.19	ND@0.17	ND@0.011	ND@3.0
Deeper	6/25/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	0.75 J	ND@0.19	ND@0.17	ND@0.011	ND@3.0
Interval	8/12/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	11/10/2014	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	0.31 J	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	2/18/2015	ND@0.21	ND@0.22	ND@0.40	ND@0.20	ND@0.34	ND@0.30	ND@0.26	ND@0.26	ND@0.19	ND@0.17	ND@0.0081	ND@3.0
	5/18/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0201	ND@2.0
	8/17/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0206	ND@2.0
	11/16/2015	ND@1.0	ND@1.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0199	ND@2.0
	2/1/2016	ND@1.0	ND@5.0	ND@1.0	ND@3.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@0.0097	ND@2.0

Notes:

PADEP: Pennsylvania Department of Environmental Protection
GW_{RU}: PADEP Medium Specific Concentrations for a Residential, Used Aquifer
MTBE: Methyl tertiary-butyl ether
ND@'X': Not detected at method detection limit limit of 'X'
µg/L : Micrograms per liter
Cumene: Isopropylbenzene
EDC: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane
J: Indicates an estimated value
BOLD Method Detection Limit exceeds GW_{RU}
BOLD Concentration exceeds GW_{RU}
[a]: Result from diluted sample

FIGURES



LEGEND

- Utility with Light
- Llight
- Monitoring Well
- Communication Line
- Abandoned Elec. Conduits
- Sanitary Sewer Line
- Water Line
- Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 Former 10,000 gal. regular
- 2 Former 6,000 gal. premium
- 3 Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Trevose, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM TECHNICAL SERVICES
510 Carnegie Center
Princeton, New Jersey 08540
PHONE: (609) 720-2000
FAX: (609) 720-2050
WEB: HTTP://WWW.AECOM.COM

SITE PLAN

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

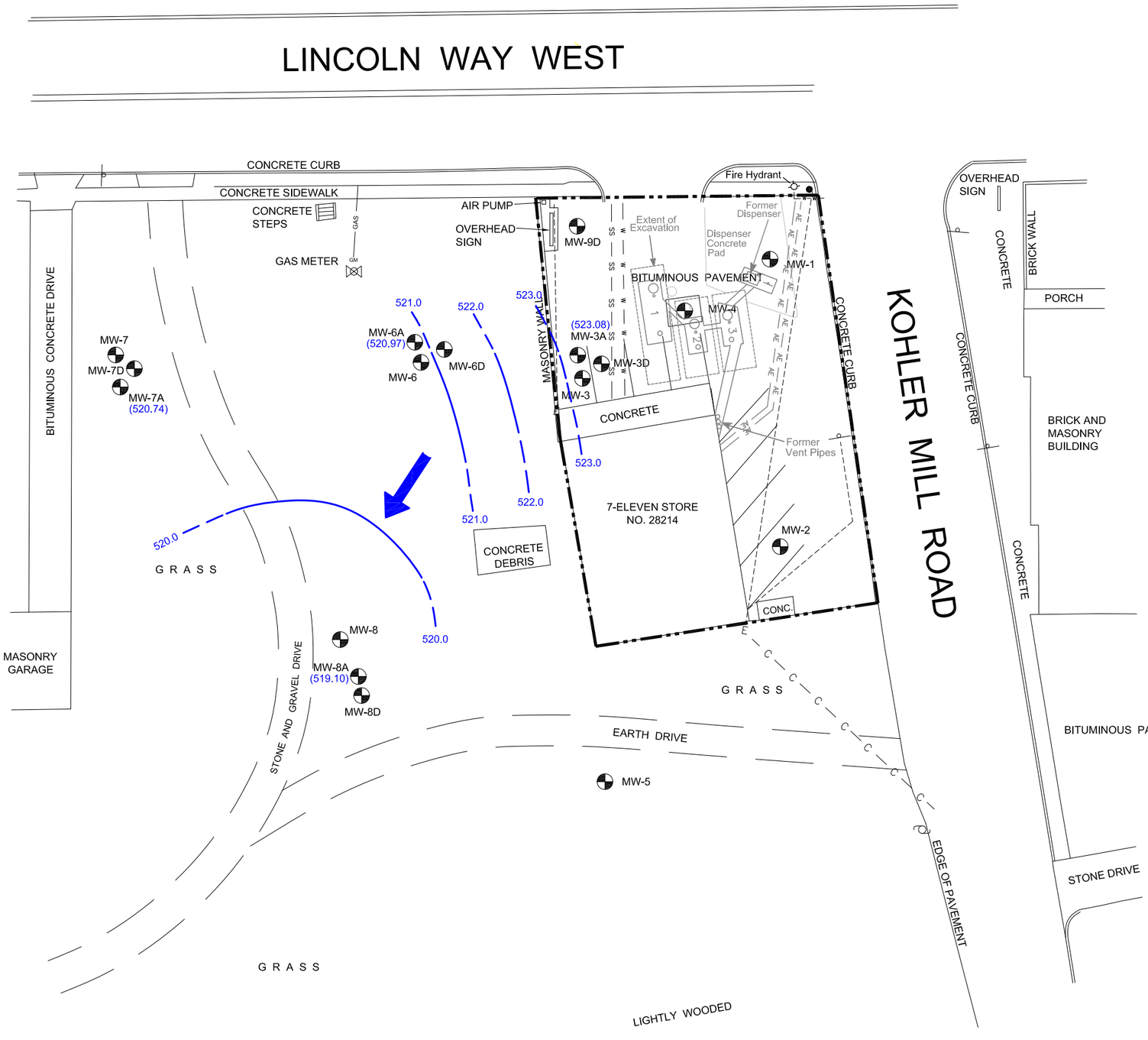
60146445

DATE: SEPTEMBER 2014

SCALE: AS SHOWN

1

SHEET NUMBER:
1 of 1



LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW-8A (519.10) — Monitoring Well Location with Groundwater Elevation in feet.
- 520.0 — Groundwater Elevation Contour (Dashed where inferred)
- Groundwater Flow Direction
- C — C — Communication Line
- AE — AE — Abandoned Elec. Conduits
- GAS — Approximate Public Utility Gas Line Location
- SS — SS — Sanitary Sewer Line
- W — W — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 — Former 10,000 gal. regular
- 2 — Former 6,000 gal. premium
- 3 — Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY 08540
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

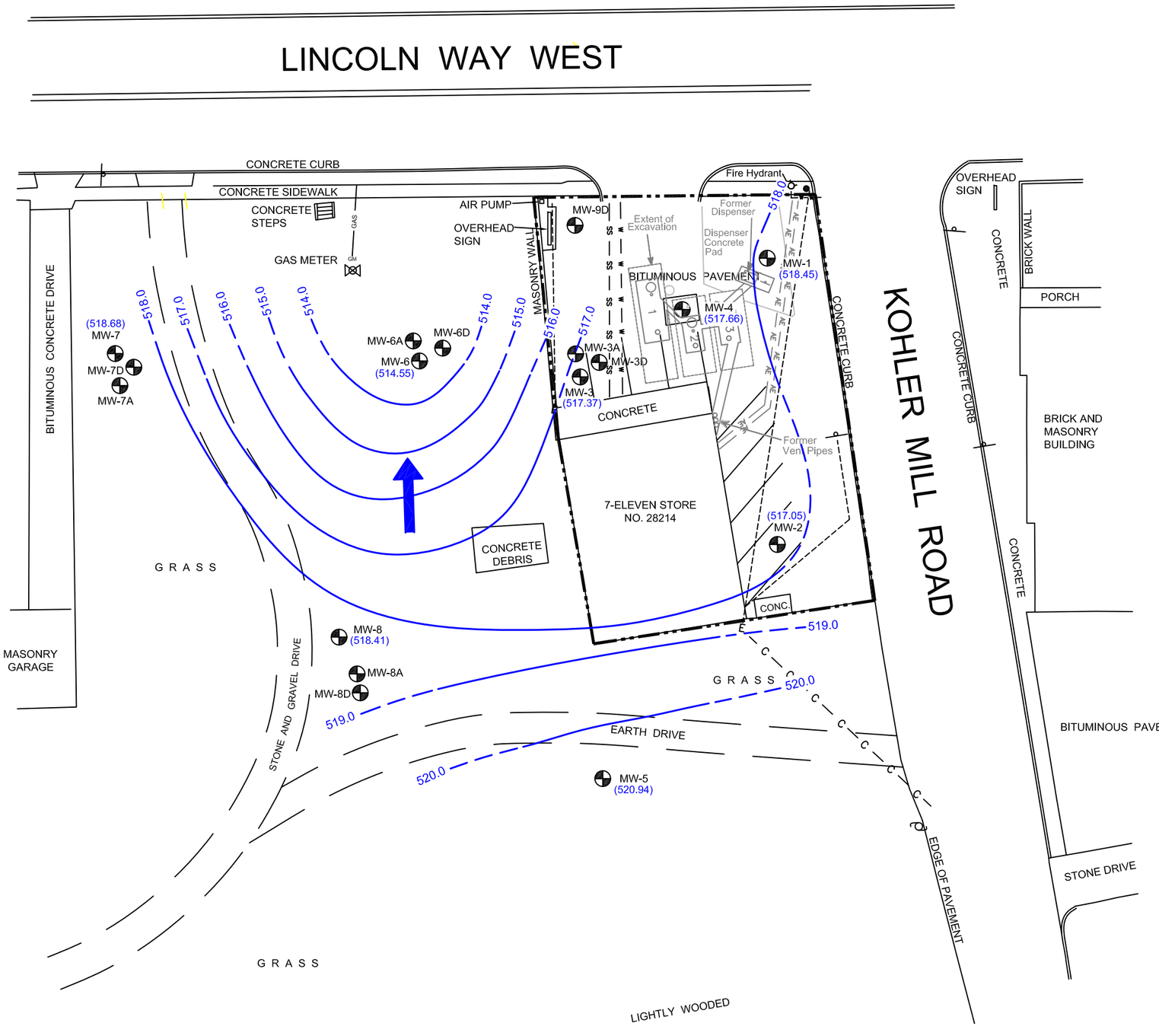
GROUNDWATER ELEVATION CONTOUR MAP SHALLOW WATER BEARING ZONE FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN | DATE: APRIL 2016 | 60146445

2

SHEET NUMBER:
1 of 1



N

LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW–8 (518.41) — Monitoring Well Location with Groundwater Elevation in feet.
- 515 — Groundwater Elevation Contour (Dashed where inferred)
- Groundwater Flow Direction
- — c — c — Communication Line
- — AE — AE — Abandoned Elec. Conduits
- — GAS — Approximate Public Utility Gas Line Location
- — ss — ss — Sanitary Sewer Line
- — w — w — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 Former 10,000 gal. regular
- 2 Former 6,000 gal. premium
- 3 Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

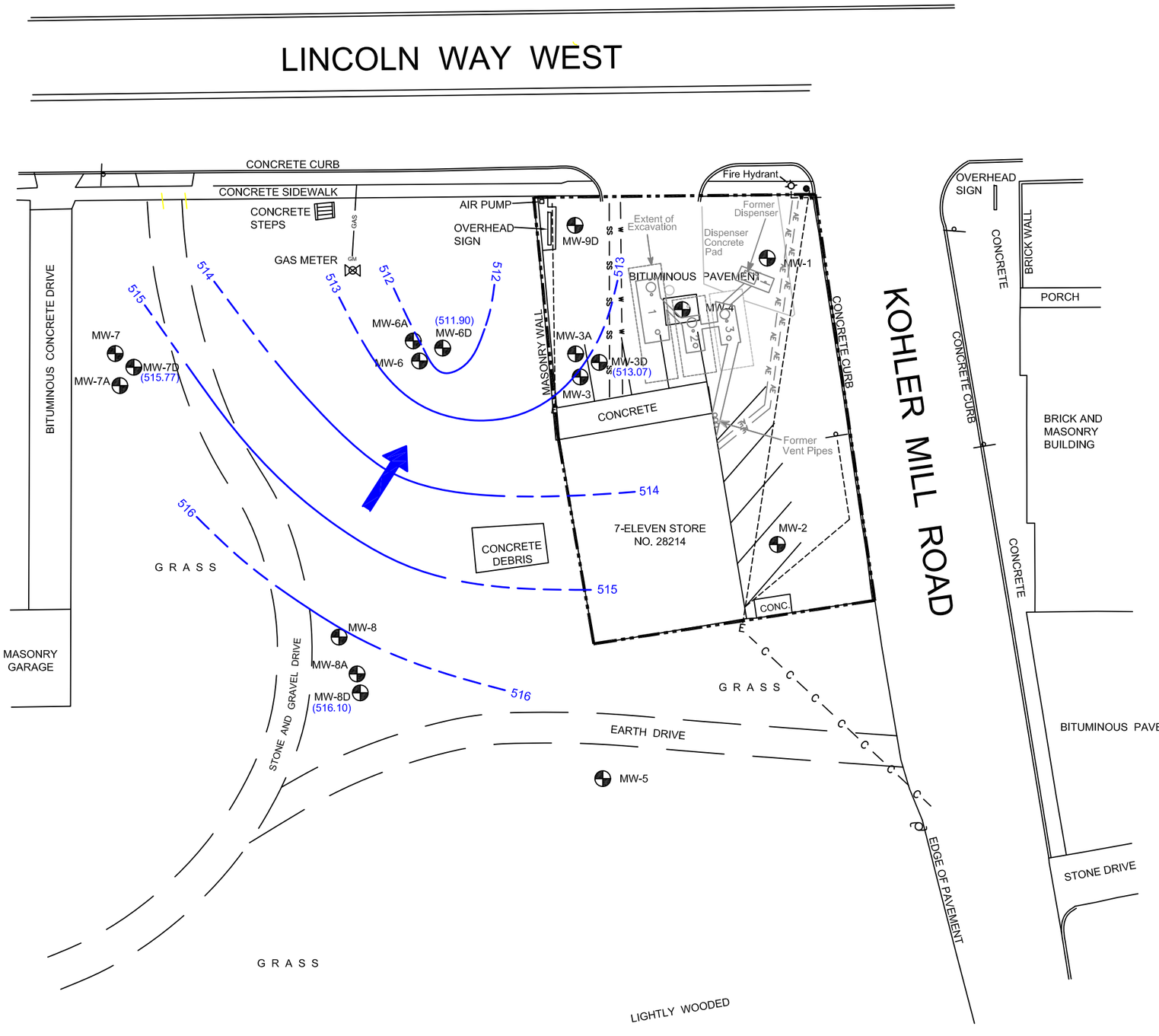
GROUNDWATER ELEVATION CONTOUR MAP
INTERMEDIATE WATER BEARING ZONE
FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN | DATE: APRIL 2016 | 60146445

3

SHEET NUMBER:
1 of 1



LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW–8D (516.10) — Monitoring Well Location with Groundwater Elevation in feet.
- 514 — Groundwater Elevation Contour (Dashed where inferred)
- Groundwater Flow Direction
- C — C — Communication Line
- AE — AE — Abandoned Elec. Conduits
- GAS — Approximate Public Utility Gas Line Location
- SS — SS — Sanitary Sewer Line
- W — W — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 Former 10,000 gal. regular
- 2 Former 6,000 gal. premium
- 3 Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY 08540
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

GROUNDWATER ELEVATION CONTOUR MAP DEEP WATER BEARING ZONE

FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214

403 Lincoln Way West

Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN

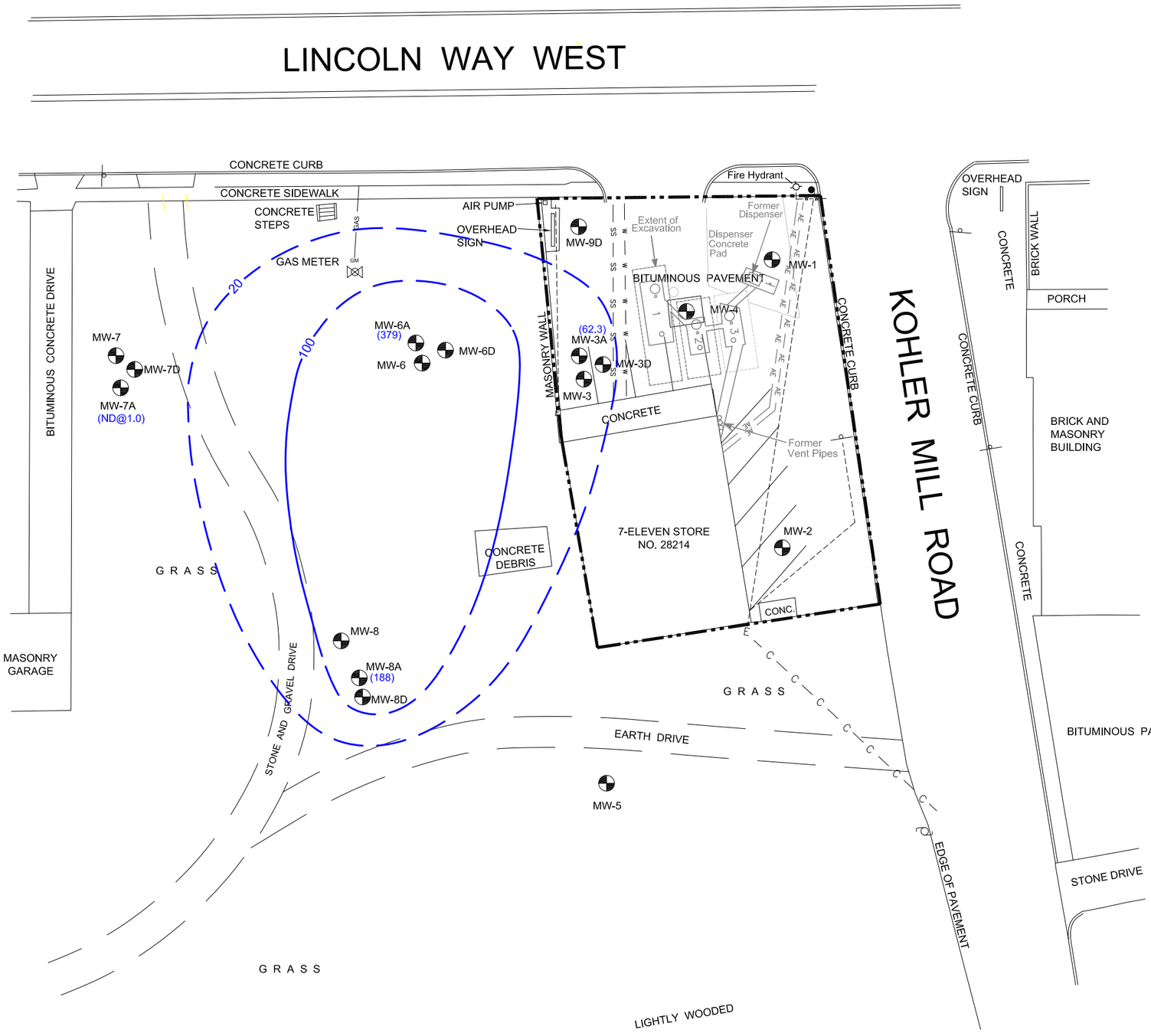
DATE: APRIL 2016

60146445

4

SHEET NUMBER:

1 of 1



Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

N

LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW–8A (188) — Monitoring Well Location with MTBE Concentration
- 20 — MTBE Isoconcentration Contour (Dashed where inferred)
- C — C — Communication Line
- AE — AE — Abandoned Elec. Conduits
- GAS — Approximate Public Utility Gas Line Location
- SS — SS — Sanitary Sewer Line
- W — W — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 — Former 10,000 gal. regular
- 2 — Former 6,000 gal. premium
- 3 — Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY 08540
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

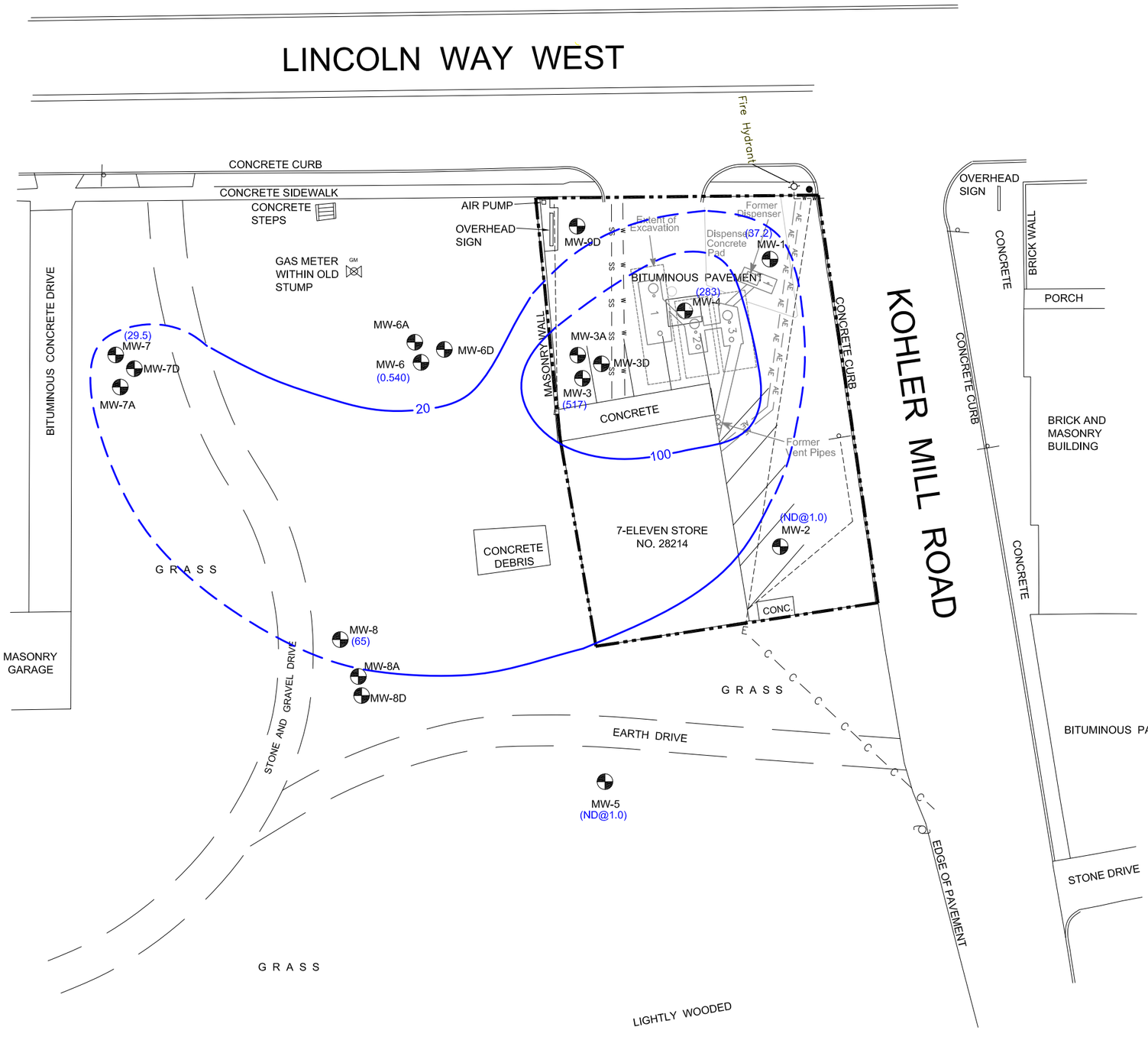
MTBE ISOCONCENTRATION MAP
SHALLOW WELLS - FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN | DATE: APRI 2016 | 60146445

5

SHEET NUMBER:
1 of 1



N

LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW–8 (65) — Monitoring Well Location with MTBE Concentration
- 20 — MTBE Isoconcentration Contour (Dashed where inferred)
- C — C — Communication Line
- AE — AE — Abandoned Elec. Conduits
- GAS — Approximate Public Utility Gas Line Location
- SS — SS — Sanitary Sewer Line
- W — W — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 Former 10,000 gal. regular
- 2 Former 6,000 gal. premium
- 3 Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY 08540
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

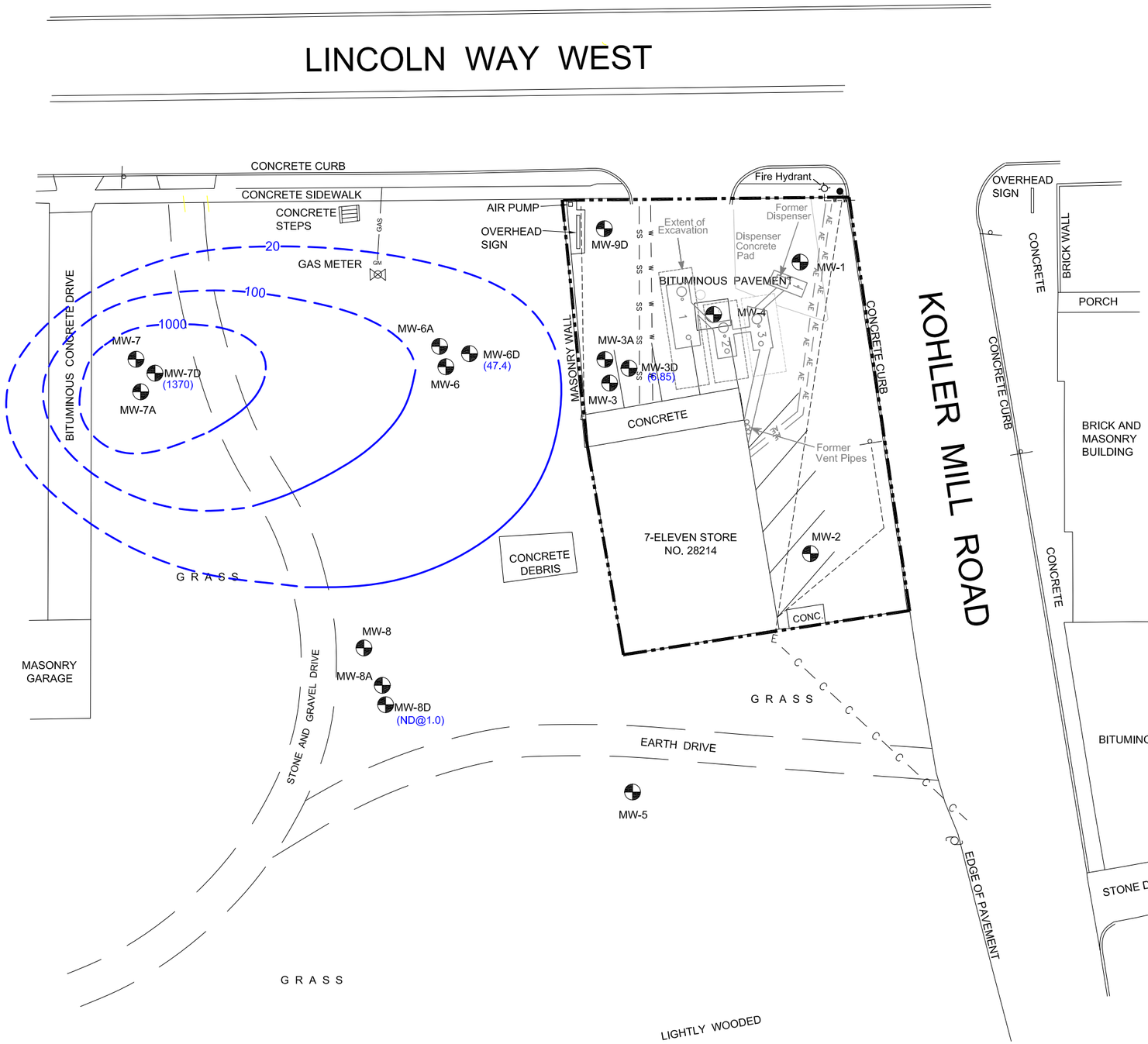
MTBE ISOCONCENTRATION MAP
INTERMEDIATE WELLS - FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN | DATE: APRIL 2016 | 60146445

6

SHEET NUMBER:
1 of 1



LEGEND

- Utility with Light
- Light
- GM — Inactive Public Utility Gas Meter associated with former building.
- Site Boundary
- MW-3D (6.85) — Monitoring Well Location with MTBE Concentration
- 20 — MTBE Isoconcentration Contour (Dashed where inferred)
- C — C — Communication Line
- AE — AE — Abandoned Elec. Conduits
- GAS — Approximate Public Utility Gas Line Location
- SS — SS — Sanitary Sewer Line
- W — W — Water Line
- E — Electrical Line
- Former UST Locations/ Extent of Excavation
- 1 — Former 10,000 gal. regular
- 2 — Former 6,000 gal. premium
- 3 — Former 6,000 gal. mid-grade

Notes:

1. *Horizontal datumis in feet and references Pennsylvania State Plan Coordinate System, N.A.D. 1983.*
2. *Vertical datum is in feet and references N.A.V.D. 1988.*
3. *Monitoring well designations provided by AECOM, Horsham, PA.*

30 0 30

SCALE:FT

Source: Vargo Associates, Monitoring Well Location Plan, Dated: 5/6/14

NO.:	DESCRIPTION:	DATE:

DESIGNED BY: | DRAWN BY: | CHECKED BY: | APPROVED BY:

AECOM
510 CARNEGIE CENTER
PRINCETON, NEW JERSEY 08540
PHONE: (609) 720-2000
FAX: (609) 720-3198
WEB: HTTP://WWW.AECOM.COM

MTBE ISOCONCENTRATION MAP
DEEP WELLS - FEBRUARY 1, 2016

7-Eleven, Inc. Store No. 28214
403 Lincoln Way West
Borough of New Oxford, Adams County, PA

SCALE: AS SHOWN | DATE: APRIL 2016 | 60146445

7

SHEET NUMBER: 1 of 1

Attachment A

FIELD NOTES AND GROUNDWATER SAMPLE COLLECTION RECORDS
February 1-2, 2016

Uncovering Wells 1/26/16

Personnel: BM
Weather: 30s Sun
Onsite @ 1020

- Onsite to uncover wells and locate them due to the large amount of snow
- All wells were able to be located except MW-8, MW-8A, MW-8D, MW-1, MW-4.
- MW-4, and MW-1 should be able to be located once parking lot melts a little more.

Offsite @ 1145

Groundwater Sampling Day 1 2/1/16

Personnel: TJS/BM
Weather: Sunny ≈40
On Site @ 0840

Cal'd Meter
Fresh Air: 0.0
100 ISO: 100
Horiba
pH: 3.41
ms/cm: 4.47

S/N: 24808
Lot #: 0306FEM
Exp: 3/6/18
S/N: 16860
NTU: 6.0
DO: 9.93

- Checked in w/ store operator
- Located MW-8 Cluster

Well ID	DTP	DTW	PID	Comments
MW-1	—	9.70	0.2	
MW-2	—	10.47	0.1	
MW-3	—	10.70	0.0	
MW-3A	—	4.43	1.4	
MW-3D	—	14.76	2.0	
MW-4	—	10.02	0.0	
MW-5	—	4.99	0.0	
MW-6	—	15.22	0.0	
MW-6A	—	7.30	2.4	

Well ID	DTP	DTW	PTD	Comments
MW-6D	—	16.77	0.1	
MW-7	—	5.68	0.6	
MW-7A	—	3.66	0.0	
MW-7D	—	4.72	0.1	
MW-8	—	8.40	0.0	
MW-8A	—	7.74	2.4	
MW-8D	—	10.11	0.0	
MW-9D	—	4.19	0.8	

Sample ID	Time
Trip Blank	—
MW-2	0950
MW-5	1130
MW-8D	1235
MW-8A	1310
MW-8	1355

- Cleaned up site.

off site @ 1425

Groundwater Sampling Day 2

Personnel: TB/BM

Weather: Sunny 30s

On site @ 0830

Field Hach

pH: 4.00

mS/cm: 4.63

S/N: 16860

NTU 0.0

DO: 10.44

Sample ID	Time
MW-7D	0950
MW-7A	1025
MW-7	1100
MW-1	1135
MW-4	1215
MW-6A	1300

Sample ID	Time
MW-6D	1320
MW-6	1340
MW-3A	1425
MW-3D	1455
MW-3	1520
Field Blank	1530

- Cleaned up site.

off Site @ 1545

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146415	Time: Start	1121
Site Location:	New Orleans	Time: End	1130
Well/Piezometer ID:	MW- 1		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.415 d. Product Depth (ft) — g. Casing Material PVC

b. Depth to Water (ft) 9.98 e. Product Thickness (ft) — h. Casing Diameter (in) 2

c. Water Column Length (ft) 44.417 (a-b) f. Gauging Pt (mark, notch, (high)) i. Calc Well Vol (gal) 7.12

WELL PURGING DATA

a. Well previously sampled MW-7

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 7.12 # of well volumes 3 equals: 21.36 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____ %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	1686C

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1121	0	13.63	7.46	0.547	39.0	7.98	121	tan	none
1127	7.12	14.79	7.36	0.426	32.6	3.81	117	"	"
1130	14.24	dewatered	@ 1130			approx	11 gal		
	21.36								
	28.48								
	35.6								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 1		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1135
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146415	Time: Start	1121
Site Location:	New Orleans	Time: End	1130
Well/Piezometer ID:	MW- 1		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.415 d. Product Depth (ft) — g. Casing Material PVC

b. Depth to Water (ft) 9.98 e. Product Thickness (ft) — h. Casing Diameter (in) 2

c. Water Column Length (ft) 44.417 (a-b) f. Gauging Pt (mark, notch, (high)) i. Calc Well Vol (gal) 7.12

WELL PURGING DATA

a. Well previously sampled MW-7

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 7.12 # of well volumes 3 equals: 21.36 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____ %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	1686C

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1121	0	13.63	7.46	0.547	39.0	7.98	121	tan	none
1127	7.12	14.79	7.36	0.426	32.6	3.81	117	"	"
1130	14.24	dewatered	@ 1130			approx	11 gal		
	21.36								
	28.48								
	35.6								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 1		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1135
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60141642.15 Time: Start 0946
Site Location: New Bern, NC Time: End 0946
Well/Piezometer ID: MW- 2
Weather Conds: Sunny 40's Collector/s: TB/DM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.40 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 10.47 e. Product Thickness (ft) — h. Casing Diameter (in) 2
c. Water Column Length (ft) 43.93 (a-b) f. Gauging Pt (mark, notch (high)) _____ i. Calc Well Vol (gal) 7.03

WELL PURGING DATA

a. Well previously sampled First well
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.03 # of well volumes 3 equals: 21.09 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
0940	0	13.98	5.60	0.740	16.4	7.57	273	Clear	None
0944	7.03	14.29	5.88	0.691	14.3	6.62	268	Clear	None
	14.06	Dewatered	@	0946		~12	gal		
	21.09								
	28.12								
	35.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
* Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 2		voa	~~6~~ 1	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	0950
		plastic	1	HNO3			

Comments

Signature _____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1458
Site Location:	New Orford	Time: End	1512
Well/Piezometer ID:	MW-3		
Weather Conds:	Sunny 30's	Collector/s:	JB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.89 d. Product Depth (ft) ____ g. Casing Material PVC

b. Depth to Water (ft) 24.66 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2"

c. Water Column Length (ft) 30.23 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 4.83

WELL PURGING DATA

a. Well previously sampled MW-3D

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 4.83 # of well volumes 3 equals: 14.49 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16560

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1458	0	13.02	7.41	1.08	10.4	2.56	83	clear	none
1503	4.83	13.88	7.26	1.08	12.9	3.23	83	"	"
1511	9.66	14.10	7.12	1.64	178	3.11	95	tan	none
1512	14.49	dewatered @ 1512				approx	10	gallons	
	19.32								
	24.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain ____

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-3		voa	~~5~~ 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1520
		plastic	1	HNO3			

Comments ____

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1405
Site Location: New Oxford Time: End 1418
Well/Piezometer ID: MW-3A
Weather Conds: Sunny 30's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 23.60 d. Product Depth (ft) — g. Casing Material Steel
b. Depth to Water (ft) 3.92 e. Product Thickness (ft) — h. Casing Diameter (in) 6"
c. Water Column Length (ft) 19.68 (a-b) f. Gauging Pt (mark, notch, high) C i. Calc Well Vol (gal) 28.9

WELL PURGING DATA

a. Well previously sampled MW-6
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 28.9 # of well volumes 3 equals: 86.7 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1405	0	13.92	7.26	2.77	478	3.96	75	Brown	none
1418	28.9	dewatered	before	able	to	pull	parameters	@	28.8 gal
	57.8								
	86.7								
	115.6								
	144.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-3A		voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1425
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

ELEVEN, INC.
60146445
New Oxford
MW-3D

Date: 2/2/16
Time: Start 1431
Time: End 1449

Sunny 30's Collector/s: JB/BM

Measured from Top of Casing to nearest 0.01 foot)

75.15 d. Product Depth (ft) ____ g. Casing Material PVC
14.00 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2
61.15 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 9.78

PID (ppm) NM

sly sampled MW-3A
amination Procedure (description) liquinox/water mix, tap rinse, DI rinse
od Controlled Flow - Pump
Criteria (defined by workplan)

uired Purge Volume: 9.78 # of well volumes 3 equals: 29.34 gallons (gal)
owable Turbidity ____ NTUs - Stabilization of parameters ____10____%
Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

X Yes____ If yes: In line filtration____ or gravity filtration____Filter pore size 0.45 µm

amination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

	(gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1431	0	14.16	7.62	6.913	43.5	2.32	45	Clear	None
1441	9.78	14.34	7.47	6.660	20.8	2.79	66	Clear	None
	19.56	Dewatered		@ 1449		~18.5	gal		
	29.34								
	39.12								
	48.9								

	Yes	No	N/A
ce criteria pass/fail			
red volume been removed		X	
red turbidity been reached			X
meters stabilized		X	
N/A - Explain Dewatered			

METHOD: disposable polyethylene bailer

Container Type		No. of Containers	Preservation		Analysis	Time
	voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1455
3D	plastic	1	HNO3			

Date 2/2/16

1" well = 0.0 ft³ = 0.041 gal.
2" well = 0.022 ft³ = 0.16 gal.
4" well = 0.087 ft³ = 0.65 gal.
6" well = 0.196 ft³ = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1146
Site Location:	New Oxford	Time: End	1208
Well/Piezometer ID:	MW- 4		
Weather Conds:	Sunny 30's	Collector/s:	TD/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.10 d. Product Depth (ft) ~~—~~ g. Casing Material PVC

b. Depth to Water (ft) 10.39 e. Product Thickness (ft) ~~—~~ h. Casing Diameter (in) 2

c. Water Column Length (ft) 42.71 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 6.8

WELL PURGING DATA

a. Well previously sampled MW-1

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 6.8 # of well volumes 3 equals: 20.4 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1146	0	14.02	6.97	1.841	63.9	3.24	-66	Gray	Sulfur
1157	6.8	14.10	6.82	1.88	237	2.43	-65	Gray	Sulfur
1205	13.6	14.07	6.97	1.63	354	1.85	-79	Grey	Sulfur
	20.4	Dewatered @ 1208				~16 gal			
	27.2								
	34.1								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 4		voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1215
		plastic	1	HNO3			

Comments ____

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60440445 Time: Start 1043
Site Location: New Orleans Time: End 1125
Well/Piezometer ID: MW- 5
Weather Conds: Sunny 40's Collector/s: TB/DM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 50.07 d. Product Depth (ft) ____ g. Casing Material PVC
b. Depth to Water (ft) 4.99 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2
c. Water Column Length (ft) 45.03 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 7.2

WELL PURGING DATA

a. Well previously sampled MW-2
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.2 # of well volumes 3 equals: 21.6 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other ____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes ____ If yes: In line filtration ____ or gravity filtration ____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1043	0	11.95	6.08	0.891	52.6	2.31	14	Tan	None
1052	7.2	12.23	5.91	0.841	13.5	3.85	17	Clear	None
1101	14.4	12.48	5.91	0.803	23.5	1.22	23	Clear	None
1109	21.6	12.61	6.00	0.757	25.3	3.67	26	Clear	None
1118	28.8	12.71	5.93	0.736	25.8	2.04	36	Tan	None
1125	36	12.76	5.93	0.727	90.3	1.20	40	Tan	None

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	X		
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain 5x Well Volume

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 5		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1130
		plastic	1	HNO3			

Comments ____

Signature ____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1320
Site Location:	New Oxford	Time: End	1333
Well/Piezometer ID:	MW- 6		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.01 d. Product Depth (ft) — g. Casing Material PVC

b. Depth to Water (ft) 15.10 e. Product Thickness (ft) — h. Casing Diameter (in) 2"

c. Water Column Length (ft) 37.91 (a-b) f. Gauging Pt (mark, notch, high) — i. Calc Well Vol (gal) 6.1

WELL PURGING DATA

a. Well previously sampled MW-6D

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 6.1 # of well volumes 3 equals: 18.3 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1320	0	12.78	7.13	1.66	14.2	4.33	55	Clear	None
1329	6.1	13.23	7.12	1.79	15.5	4.41	73	Clear	None
	12.2	Dewatered @ 1333				2	10 gal		
	18.3								
	24.4								
	30.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 6		voa	3	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1340
		plastic	1	HNO3			

Comments

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146745 Time: Start 1235
Site Location: New Oxford Time: End 1255
Well/Piezometer ID: MW-6A
Weather Conds: Sunny 30's Collector/s: JB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 25.70 d. Product Depth (ft) — g. Casing Material Steel
b. Depth to Water (ft) 7.25 e. Product Thickness (ft) — h. Casing Diameter (in) 6"
c. Water Column Length (ft) 18.45 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 27.1

WELL PURGING DATA

a. Well previously sampled MW-4
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 27.1 # of well volumes 3 equals: 81.3 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16560

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1235	0	12.93	7.43	1.56	40.6	5.12	-37	Clear	None
	27.1	Dewatered @ 1255				~2 gal			
	54.2								
	81.3								
	108.4								
	135.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-6A		voa	36	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1300
		plastic	1	HNO3			

Comments _____

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1301
Site Location: New Oxford Time: End 1311
Well/Piezometer ID: MW- 61
Weather Conds: Sunny 30's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 71.55 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 13.47 e. Product Thickness (ft) — h. Casing Diameter (in) 2
c. Water Column Length (ft) 58.08 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 9.29

WELL PURGING DATA

a. Well previously sampled MW-6A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 9.29 # of well volumes 3 equals: 27.87 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1301	0	12.91	7.63	0.865	43.5	5.31	-14	tan	none
1308	9.29	13.55	7.33	0.719	16.4	2.43	13	clear	none
1311	18.58	dewatered @ 1311				approx 13.5 gal			
	27.87								
	37.16								
	46.45								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain _____

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-61		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1320
		plastic	1	HNO3			

Comments _____

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1033
Site Location: New Orford Time: End 1053
Well/Piezometer ID: MW- 7
Weather Conds: Sunny 30's Collector/s:

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 51.39 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 6.88 e. Product Thickness (ft) — h. Casing Diameter (in) 2"
c. Water Column Length (ft) 44.51 (a-b) f. Gauging Pt (mark, notch (high)) i. Calc Well Vol (gal) 7.1

WELL PURGING DATA

a. Well previously sampled MW-7A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.1 # of well volumes 3 equals: 21.3 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other ____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes ____ If yes: In line filtration ____ or gravity filtration ____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1033	0	13.44	6.95	0.541	164	4.12	80	tan	none
1042	7.1	13.09	7.20	~~.89~~ 0.546	29.2	3.15	87	clear	none
1051	14.2	13.45	7.21	0.546 0.582	261	4.11	95	tan	none
1053	21.3	Dewatered @ 1053				approx 16	gal		
	28.4								
	35.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 7		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1100
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60144445 Time: Start 1004
Site Location: New Orleans Time: End 1019
Well/Piezometer ID: MW-7A
Weather Conds: Sunny 50's Collector/s: TD/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 22.34 d. Product Depth (ft) ____ g. Casing Material Steel
b. Depth to Water (ft) 3.60 e. Product Thickness (ft) ____ h. Casing Diameter (in) 6"
c. Water Column Length (ft) 18.74 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 27.53

WELL PURGING DATA

a. Well previously sampled MW-7D
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 27.53 # of well volumes 3 equals: 82.59 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1004	0	12.23	7.24	0.546	235	3.83	38	tan	none
1019	27.53	Dewatered	@ 1019			approx	26.5	gal.	
	55.06								
	82.59								
	110.12								
	137.65								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-7A		voa	~~2~~ 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1025
		plastic	1	HNO3			

Comments

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	0916
Site Location:	New Oxford	Time: End	0944
Well/Piezometer ID:	MW-7D		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 74.93 d. Product Depth (ft) ____ g. Casing Material PVC

b. Depth to Water (ft) 8.70 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2

c. Water Column Length (ft) 66.23 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 10.6

WELL PURGING DATA

a. Well previously sampled MW-8

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 10.6 # of well volumes 3 equals: 31.5 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	11860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
0916	0	11.37	5.92	1.72	120	4.32	256	Tan	None
0926	10.6	12.04	6.69	1.61	13.2	2.94	225	Clear	none
0938	21.2	12.57	6.87	1.57	36.3	2.67	213	"	"
0944	31.8	Dewatered	@ 0944			26	gallons		
	42.4								
	53								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-7D		voa	3	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	0950
		plastic	1	HNO3			

Comments ____

Signature ____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 7/1/16
Project No: 60140445 Time: Start
Site Location: New Oxford Time: End
Well/Piezometer ID: MW- 8
Weather Conds: Sunny 90's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.35 d. Product Depth (ft) g. Casing Material PVC
b. Depth to Water (ft) 9.40 e. Product Thickness (ft) h. Casing Diameter (in) 2"
c. Water Column Length (ft) 43.95 (a-b) f. Gauging Pt (mark, notch, high) i. Calc Well Vol (gal) 7.03

WELL PURGING DATA

a. Well previously sampled MW-8A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.03 # of well volumes 3 equals: 21.09 gallons (gal)
- Maximum Allowable Turbidity NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) Other GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16862

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # Page #

g. Filtration No X Yes If yes: In line filtration or gravity filtration Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1326	0	16.67	7.57	0.815	25.0	1.76	102	Clear	None
1335	7.03	11.74	6.98	0.796	23.9	1.96	110	Clear	None
1343	14.06	12.22	6.92	0.870	33.4	2.32	117	Tan	None
	21.09	Dewatered @			1348		19 gal		
	28.12								
	35.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 8		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1355
		plastic	1	HNO3			

Comments

Signature Date 7/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60140445 Time: Start
Site Location: New Oxford Time: End
Well/Piezometer ID: MW- 8A
Weather Conds: Sunny 40's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 23.25 d. Product Depth (ft) ~~_____~~ g. Casing Material Steel
b. Depth to Water (ft) 7.74 e. Product Thickness (ft) ~~_____~~ h. Casing Diameter (in) 6"
c. Water Column Length (ft) 15.51 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 22.78

WELL PURGING DATA

a. Well previously sampled MW-8D
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 22.78 # of well volumes 3 equals: 68.34 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1258	0	11.77	7.14	1.52	101	2.37	107	tan	None
	22.78	Dewatered @			1305	~	13 gal		
	45.56								
	68.34								
	91.12								
	113.9								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservaion		Analysis	Time
MW- 8A		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1310
		plastic	1	HNO3			

Comments

Signature _____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 960140495 Time: Start 1154
Site Location: Near Oxford Time: End 1232
Well/Piezometer ID: MW- 8D
Weather Conds: Sunny 40's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 73.07 d. Product Depth (ft) ____ g. Casing Material PVC
b. Depth to Water (ft) 10.11 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2
c. Water Column Length (ft) 62.96 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 16.07

WELL PURGING DATA

a. Well previously sampled MW-5
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 16.07 # of well volumes 3 equals: 30.21 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other ____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes ____ If yes: In line filtration ____ or gravity filtration ____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1154	0	11.94	6.84	0.626	8.3	2.50	18	Tan	None
1205	10.07	12.41	6.87	0.644	496	2.61	38	Orange	None
1215	20.14	12.67	6.73	0.642	177	2.31	57	Orange	None
1225	30.21	12.64	6.66	0.656	800	4.57	73	Orange	None
	40.28	Dewatered @ 1232			~	37gal			
	50.35								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 8D		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1235
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60141642.15 Time: Start 0946
Site Location: New Bern, NC Time: End 0946
Well/Piezometer ID: MW- 2
Weather Conds: Sunny 40's Collector/s: TB/DM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.40 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 10.47 e. Product Thickness (ft) — h. Casing Diameter (in) 2
c. Water Column Length (ft) 43.93 (a-b) f. Gauging Pt (mark, notch (high)) _____ i. Calc Well Vol (gal) 7.03

WELL PURGING DATA

a. Well previously sampled First well
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.03 # of well volumes 3 equals: 21.09 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
0940	0	13.98	5.60	0.740	16.4	7.57	273	Clear	None
0944	7.03	14.29	5.88	0.691	14.3	6.62	268	Clear	None
	14.06	Dewatered	@	0946		~12	gal		
	21.09								
	28.12								
	35.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
* Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 2		voa	~~6~~ 1	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	0950
		plastic	1	HNO3			

Comments

Signature _____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1458
Site Location:	New Orford	Time: End	1512
Well/Piezometer ID:	MW-3		
Weather Conds:	Sunny 30's	Collector/s:	JB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 54.89 d. Product Depth (ft) ____ g. Casing Material PVC

b. Depth to Water (ft) 24.66 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2"

c. Water Column Length (ft) 30.23 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 4.83

WELL PURGING DATA

a. Well previously sampled MW-3D

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 4.83 # of well volumes 3 equals: 14.49 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16560

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1458	0	13.02	7.41	1.08	10.4	2.56	83	clear	none
1503	4.83	13.88	7.26	1.08	12.9	3.23	83	"	"
1511	9.66	14.10	7.12	1.64	178	3.11	95	tan	none
1512	14.49	dewatered @ 1512				approx	10	gallons	
	19.32								
	24.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain ____

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-3		voa	~~5~~ 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1520
		plastic	1	HNO3			

Comments ____

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1405
Site Location: New Oxford Time: End 1418
Well/Piezometer ID: MW-3A
Weather Conds: Sunny 30's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 23.60 d. Product Depth (ft) — g. Casing Material Steel
b. Depth to Water (ft) 3.92 e. Product Thickness (ft) — h. Casing Diameter (in) 6"
c. Water Column Length (ft) 19.68 (a-b) f. Gauging Pt (mark, notch, high) C i. Calc Well Vol (gal) 28.9

WELL PURGING DATA

a. Well previously sampled MW-6
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 28.9 # of well volumes 3 equals: 86.7 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1405	0	13.92	7.26	2.77	478	3.96	75	Brown	none
1418	28.9	dewatered	before	able	to	pull	parameters	@	28.8 gal
	57.8								
	86.7								
	115.6								
	144.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-3A		voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1425
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

ELEVEN, INC.
60146445
New Oxford
MW-3D

Date: 2/2/16
Time: Start 1431
Time: End 1449

Sunny 30's Collector/s: JB/BM

Measured from Top of Casing to nearest 0.01 foot)

75.15 d. Product Depth (ft) ____ g. Casing Material PVC
14.00 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2
61.15 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 9.78

PID (ppm) NM

sly sampled MW-3A
amination Procedure (description) liquinox/water mix, tap rinse, DI rinse
od Controlled Flow - Pump
Criteria (defined by workplan)

uired Purge Volume: 9.78 # of well volumes 3 equals: 29.34 gallons (gal)
owable Turbidity ____ NTUs - Stabilization of parameters ____10____%
Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

X Yes____ If yes: In line filtration____ or gravity filtration____Filter pore size 0.45 µm

amination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

	(gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1431	0	14.16	7.62	6.913	43.5	2.32	45	Clear	None
1441	9.78	14.34	7.47	6.660	20.8	2.79	66	Clear	None
	19.56	Dewatered		@ 1449		~18.5	gal		
	29.34								
	39.12								
	48.9								

	Yes	No	N/A
ce criteria pass/fail			
red volume been removed		X	
red turbidity been reached			X
meters stabilized		X	
N/A - Explain Dewatered			

METHOD: disposable polyethylene bailer

Container Type		No. of Containers	Preservation		Analysis	Time
	voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1455
3D	plastic	1	HNO3			

Date 2/2/16

1" well = 0.0 ft³ = 0.041 gal.
2" well = 0.022 ft³ = 0.16 gal.
4" well = 0.087 ft³ = 0.65 gal.
6" well = 0.196 ft³ = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1146
Site Location:	New Oxford	Time: End	1208
Well/Piezometer ID:	MW- 4		
Weather Conds:	Sunny 30's	Collector/s:	TD/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.10 d. Product Depth (ft) ~~—~~ g. Casing Material PVC

b. Depth to Water (ft) 10.39 e. Product Thickness (ft) ~~—~~ h. Casing Diameter (in) 2

c. Water Column Length (ft) 42.71 (a-b) f. Gauging Pt (mark, notch, (high)) ____ i. Calc Well Vol (gal) 6.8

WELL PURGING DATA

a. Well previously sampled MW-1

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 6.8 # of well volumes 3 equals: 20.4 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1146	0	14.02	6.97	1.841	63.9	3.24	-66	Gray	Sulfur
1157	6.8	14.10	6.82	1.88	237	2.43	-65	Gray	Sulfur
1205	13.6	14.07	6.97	1.63	354	1.85	-79	Grey	Sulfur
	20.4	Dewatered @ 1208				~16 gal			
	27.2								
	34.1								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 4		voa	3 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1215
		plastic	1	HNO3			

Comments ____

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60440445 Time: Start 1043
Site Location: New Orleans Time: End 1125
Well/Piezometer ID: MW- 5
Weather Conds: Sunny 40's Collector/s: TB/DM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 50.07 d. Product Depth (ft) ____ g. Casing Material PVC
b. Depth to Water (ft) 4.99 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2
c. Water Column Length (ft) 45.03 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 7.2

WELL PURGING DATA

a. Well previously sampled MW-2
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.2 # of well volumes 3 equals: 21.6 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other ____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes ____ If yes: In line filtration ____ or gravity filtration ____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1043	0	11.95	6.08	0.891	52.6	2.31	14	Tan	None
1052	7.2	12.23	5.91	0.841	13.5	3.85	17	Clear	None
1101	14.4	12.48	5.91	0.803	23.5	1.22	23	Clear	None
1109	21.6	12.61	6.00	0.757	25.3	3.67	26	Clear	None
1118	28.8	12.71	5.93	0.736	25.8	2.04	36	Tan	None
1125	36	12.76	5.93	0.727	90.3	1.20	40	Tan	None

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	X		
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain 5x Well Volume

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 5		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1130
		plastic	1	HNO3			

Comments ____

Signature ____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	1320
Site Location:	New Oxford	Time: End	1333
Well/Piezometer ID:	MW- 6		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.01 d. Product Depth (ft) — g. Casing Material PVC

b. Depth to Water (ft) 15.10 e. Product Thickness (ft) — h. Casing Diameter (in) 2"

c. Water Column Length (ft) 37.91 (a-b) f. Gauging Pt (mark, notch, high) — i. Calc Well Vol (gal) 6.1

WELL PURGING DATA

a. Well previously sampled MW-6D

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 6.1 # of well volumes 3 equals: 18.3 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1320	0	12.78	7.13	1.66	14.2	4.33	55	Clear	None
1329	6.1	13.23	7.12	1.79	15.5	4.41	73	Clear	None
	12.2	Dewatered @ 1333				2	10 gal		
	18.3								
	24.4								
	30.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 6		voa	3	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1340
		plastic	1	HNO3			

Comments

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146745 Time: Start 1235
Site Location: New Oxford Time: End 1255
Well/Piezometer ID: MW-6A
Weather Conds: Sunny 30's Collector/s: JB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 25.70 d. Product Depth (ft) — g. Casing Material Steel
b. Depth to Water (ft) 7.25 e. Product Thickness (ft) — h. Casing Diameter (in) 6"
c. Water Column Length (ft) 18.45 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 27.1

WELL PURGING DATA

a. Well previously sampled MW-4
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 27.1 # of well volumes 3 equals: 81.3 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16560

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1235	0	12.93	7.43	1.56	40.6	5.12	-37	Clear	None
	27.1	Dewatered @ 1255				~2 gal			
	54.2								
	81.3								
	108.4								
	135.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-6A		voa	36	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1300
		plastic	1	HNO3			

Comments _____

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1301
Site Location: New Oxford Time: End 1311
Well/Piezometer ID: MW- 61
Weather Conds: Sunny 30's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 71.55 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 13.47 e. Product Thickness (ft) — h. Casing Diameter (in) 2
c. Water Column Length (ft) 58.08 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 9.29

WELL PURGING DATA

a. Well previously sampled MW-6A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 9.29 # of well volumes 3 equals: 27.87 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1301	0	12.91	7.63	0.865	43.5	5.31	-14	tan	none
1308	9.29	13.55	7.33	0.719	16.4	2.43	13	clear	none
1311	18.58	dewatered @ 1311				approx 13.5 gal			
	27.87								
	37.16								
	46.45								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain _____

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-61		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1320
		plastic	1	HNO3			

Comments _____

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60146445 Time: Start 1033
Site Location: New Orford Time: End 1053
Well/Piezometer ID: MW- 7
Weather Conds: Sunny 30's Collector/s:

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 51.39 d. Product Depth (ft) — g. Casing Material PVC
b. Depth to Water (ft) 6.88 e. Product Thickness (ft) — h. Casing Diameter (in) 2"
c. Water Column Length (ft) 44.51 (a-b) f. Gauging Pt (mark, notch (high)) i. Calc Well Vol (gal) 7.1

WELL PURGING DATA

a. Well previously sampled MW-7A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.1 # of well volumes 3 equals: 21.3 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) ____ Other ____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes ____ If yes: In line filtration ____ or gravity filtration ____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1033	0	13.44	6.95	0.541	164	4.12	80	tan	none
1042	7.1	13.09	7.20	~~.89~~ 0.546	29.2	3.15	87	clear	none
1051	14.2	13.45	7.21	0.546 0.582	261	4.11	95	tan	none
1053	21.3	Dewatered @ 1053				approx 16	gal		
	28.4								
	35.5								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 7		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1100
		plastic	1	HNO3			

Comments

Signature [signature] Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/2/16
Project No: 60144445 Time: Start 1004
Site Location: New Orleans Time: End 1019
Well/Piezometer ID: MW-7A
Weather Conds: Sunny 50's Collector/s: TD/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 22.34 d. Product Depth (ft) ____ g. Casing Material Steel
b. Depth to Water (ft) 3.60 e. Product Thickness (ft) ____ h. Casing Diameter (in) 6"
c. Water Column Length (ft) 18.74 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 27.53

WELL PURGING DATA

a. Well previously sampled MW-7D
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 27.53 # of well volumes 3 equals: 82.59 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1004	0	12.23	7.24	0.546	235	3.83	38	tan	none
1019	27.53	Dewatered	@ 1019			approx	26.5	gal.	
	55.06								
	82.59								
	110.12								
	137.65								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-7A		voa	~~2~~ 6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1025
		plastic	1	HNO3			

Comments

Signature _____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/2/16
Project No:	60146445	Time: Start	0916
Site Location:	New Oxford	Time: End	0944
Well/Piezometer ID:	MW-7D		
Weather Conds:	Sunny 30's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 74.93 d. Product Depth (ft) ____ g. Casing Material PVC

b. Depth to Water (ft) 8.70 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2

c. Water Column Length (ft) 66.23 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 10.6

WELL PURGING DATA

a. Well previously sampled MW-8

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 10.6 # of well volumes 3 equals: 31.5 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	11860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
0916	0	11.37	5.92	1.72	120	4.32	256	Tan	None
0926	10.6	12.04	6.69	1.61	13.2	2.94	225	Clear	none
0938	21.2	12.57	6.87	1.57	36.3	2.67	213	"	"
0944	31.8	Dewatered	@ 0944			26	gallons		
	42.4								
	53								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		✓	
Has required turbidity been reached			X
Have parameters stabilized		✓	

If no or N/A - Explain dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW-7D		voa	3	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	0950
		plastic	1	HNO3			

Comments ____

Signature ____ Date 2/2/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 7/1/16
Project No: 60140445 Time: Start
Site Location: New Oxford Time: End
Well/Piezometer ID: MW- 8
Weather Conds: Sunny 90's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 53.35 d. Product Depth (ft) g. Casing Material PVC
b. Depth to Water (ft) 9.40 e. Product Thickness (ft) h. Casing Diameter (in) 2"
c. Water Column Length (ft) 43.95 (a-b) f. Gauging Pt (mark, notch, high) i. Calc Well Vol (gal) 7.03

WELL PURGING DATA

a. Well previously sampled MW-8A
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)
- Minimum Required Purge Volume: 7.03 # of well volumes 3 equals: 21.09 gallons (gal)
- Maximum Allowable Turbidity NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) Other GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16862

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # Page #

g. Filtration No X Yes If yes: In line filtration or gravity filtration Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1326	0	16.67	7.57	0.815	25.0	1.76	102	Clear	None
1335	7.03	11.74	6.98	0.796	23.9	1.96	110	Clear	None
1343	14.06	12.22	6.92	0.870	33.4	2.32	117	Tan	None
	21.09	Dewatered @			1348		19 gal		
	28.12								
	35.15								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 8		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1355
		plastic	1	HNO3			

Comments

Signature Date 7/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client: 7-ELEVEN, INC. Date: 2/1/16
Project No: 60140445 Time: Start
Site Location: New Oxford Time: End
Well/Piezometer ID: MW- 8A
Weather Conds: Sunny 40's Collector/s: TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 23.25 d. Product Depth (ft) ~~_____~~ g. Casing Material Steel
b. Depth to Water (ft) 7.74 e. Product Thickness (ft) ~~_____~~ h. Casing Diameter (in) 6"
c. Water Column Length (ft) 15.51 (a-b) f. Gauging Pt (mark, notch, high) _____ i. Calc Well Vol (gal) 22.78

WELL PURGING DATA

a. Well previously sampled MW-8D
b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse
c. Purge Method Controlled Flow - Pump
d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 22.78 # of well volumes 3 equals: 68.34 gallons (gal)
- Maximum Allowable Turbidity _____ NTUs - Stabilization of parameters 10 %
- Purge Water Handling (check one) Containerized (# of drums) _____ Other _____ GAC X

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

g. Filtration No X Yes ____ If yes: In line filtration _____ or gravity filtration _____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1258	0	11.77	7.14	1.52	101	2.37	107	tan	None
	22.78	Dewatered @			1305	~	13 gal		
	45.56								
	68.34								
	91.12								
	113.9								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservaion		Analysis	Time
MW- 8A		voa	6	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1310
		plastic	1	HNO3			

Comments

Signature _____ Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Ground Water Sample Collection Record

Client:	7-ELEVEN, INC.	Date:	2/1/16
Project No:	960140495	Time: Start	1154
Site Location:	0 New Orleans	Time: End	1232
Well/Piezometer ID:	MW- 8D		
Weather Conds:	Sunny 40's	Collector/s:	TB/BM

WATER LEVEL DATA: (measured from Top of Casing to nearest 0.01 foot) PID (ppm) NM

a. Total Well Length (ft.) 73.07 d. Product Depth (ft) ____ g. Casing Material PVC

b. Depth to Water (ft) 10.11 e. Product Thickness (ft) ____ h. Casing Diameter (in) 2

c. Water Column Length (ft) 62.96 (a-b) f. Gauging Pt (mark, notch, high) ____ i. Calc Well Vol (gal) 16.07

WELL PURGING DATA

a. Well previously sampled MW-5

b. Pre-Decontamination Procedure (description) liquinox/water mix, tap rinse, DI rinse

c. Purge Method Controlled Flow - Pump

d. Acceptance Criteria (defined by workplan)

- Minimum Required Purge Volume: 16.07 # of well volumes 3 equals: 30.21 gallons (gal)
- Maximum Allowable Turbidity ____ NTUs - Stabilization of parameters ____10____%
- Purge Water Handling (check one) Containerized (# of drums) ____ Other____ GAC__X__

e. Field Testing Equipment Used:

Make	Model	Serial Number
Horiba	U-52	16860

f. Field Testing Equipment Calibration Documentation Found in Field Notebook # ____ Page # ____

g. Filtration No X Yes____ If yes: In line filtration____ or gravity filtration____ Filter pore size 0.45 µm

h. Post-Decontamination Procedure (description) Liquinox wash/ tap water rise /DI Rinse

Time	Volume Removed (gal)	T° (°C/°F)	pH (SU)	Conductivity (m mhos)	Turbidity (NTUs)	DO (mg/L)	ORP (millivolts)	Color	Odor
1154	0	11.94	6.84	0.626	8.3	2.50	18	Tan	None
1205	10.07	12.41	6.87	0.644	496	2.61	38	Orange	None
1215	20.14	12.67	6.73	0.642	177	2.31	57	Orange	None
1225	30.21	12.64	6.66	0.656	800	4.59	73	Orange	None
	40.28	Dewatered @ 1232			~	37gal			
	50.35								

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed		X	
Has required turbidity been reached			X
Have parameters stabilized		X	

If no or N/A - Explain Dewatered

SAMPLE COLLECTION METHOD: disposable polyethylene bailer

Sample ID	Container Type		No. of Containers	Preservation		Analysis	Time
MW- 8D		voa	3	HCl		Pa Shortlist for Leaded and Unleaded Gasoline	1235
		plastic	1	HNO3			

Comments ____

Signature [signature] Date 2/1/16

NOTES: 1 ft length of 1" well = 0.0 ft^3 = 0.041 gal.
1 ft. length of 2" well = 0.022 ft^3 = 0.16 gal.
1 ft. length of 4" well = 0.087 ft^3 = 0.65 gal.
1 ft. length of 6" well = 0.196 ft^3 = 1.469 gal

AECOM

Attachment B

GROUNDWATER SAMPLING METHODOLOGY

Methodology

The depth to groundwater in each well was measured using a water level meter.

Site monitoring wells were purged using a 2-inch diameter submersible pump with restricted flow. Power was supplied to the pump using a small gas generator. Factory-clean disposable polyethylene tubing was attached to the pump outlet using a stainless steel hose clamp. The purged groundwater was pumped through granular activated carbon (GAC) units and disposed of in a grassy area.

Depth to groundwater measurements were used to calculate the volume of standing water in the on-site wells. Wells were purged of a minimum of three well volumes. Purging continued until field indicator parameters stabilized, the well ceased yielding water, or five well volumes were removed.

At each well, water quality parameters were recorded when well purging commenced and after each well volume was removed. Parameters were considered stable when temperature, pH, specific conductance, dissolved oxygen (DO), and oxidation/reduction potential (ORP) measurements were within 10 percent of the measurement recorded from the previous well volume. Turbidity was recorded; however, stable turbidity is not considered a requirement when sampling only for volatile organic compounds (VOCs).

AECOM field personnel used Horiba model U-52 water quality meters to measure water quality parameters while purging the Site monitoring wells. The water quality meters were calibrated according to the manufacturer's instructions.

Once purging of a monitoring well was complete, the submersible pump and dedicated tubing were removed from the well. A factory-clean disposable polyethylene bailer with dedicated nylon string was then used to collect a sample from the monitoring well. Groundwater samples were poured directly from the bailer into laboratory-supplied bottle ware. Groundwater sample names correspond to the monitoring well from which they were collected.

The trip blank was prepared by the laboratory and the field blank was collected by pouring deionized water through a factory-clean, disposable bailer and poured into laboratory-supplied sample containers. The trip blank, which was prepared by the laboratory, accompanied the bottle ware to and from the laboratory.

The samples were placed into a cooler containing ice to maintain an approximate temperature of four degrees Celsius (4°C) and delivered to Test America Laboratories in Nashville, Tennessee under chain-of-custody conditions.

Groundwater sampling equipment (i.e. pumps, hose clamps, etc.) was decontaminated prior to purging the first monitoring well and after each monitoring well was purged. Decontamination included scrubbing the submersible pumps and hose clamps with a brush in water and Liquinox detergent, running the pump while submerged in the Liquinox solution for one to two minutes, rinsing equipment with tap water, and by a rinse with reagent-grade deionized water.

ATTACHMENT C

LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY
February 1-2, 2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Nashville
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Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-97142-1
TestAmerica SDG: 430 Lincoln Way, New Oxford, PA
Client Project/Site: 28214.New Oxford.EL (PA)

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Sherry M Salomon

Authorized for release by:
3/9/2016 2:50:48 PM

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Table of Contents

Sample Summary

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-97142-1	Trip Blank	Water	02/01/16 00:01	02/04/16 09:15
490-97142-2	MW-2	Water	02/01/16 09:50	02/04/16 09:15
490-97142-3	MW-5	Water	02/01/16 11:30	02/04/16 09:15
490-97142-4	MW-8D	Water	02/01/16 12:35	02/04/16 09:15
490-97142-5	MW-8A	Water	02/01/16 13:10	02/04/16 09:15
490-97142-6	MW-8	Water	02/01/16 13:55	02/04/16 09:15
490-97142-7	MW-7D	Water	02/02/16 09:50	02/04/16 09:15
490-97142-8	MW-7A	Water	02/02/16 10:25	02/04/16 09:15
490-97142-9	MW-7	Water	02/02/16 11:00	02/04/16 09:15
490-97142-10	MW-1	Water	02/02/16 11:35	02/04/16 09:15
490-97142-11	MW-4	Water	02/02/16 12:15	02/04/16 09:15
490-97142-12	MW-6A	Water	02/02/16 13:00	02/04/16 09:15
490-97142-13	MW-6D	Water	02/02/16 13:20	02/04/16 09:15
490-97142-14	MW-6	Water	02/02/16 13:40	02/04/16 09:15
490-97142-15	MW-3A	Water	02/02/16 14:25	02/04/16 09:15
490-97142-16	MW-3D	Water	02/02/16 14:55	02/04/16 09:15
490-97142-17	MW-3	Water	02/02/16 15:20	02/04/16 09:15
490-97142-18	Field Blank	Water	02/02/16 15:30	02/04/16 09:15

Job ID: 490-97142-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-97142-1

Comments
No additional comments.

Receipt
The samples were received on 2/4/2016 at 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6º C.

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

Subcontract Work
Method 8260 PA ULG List: This method was subcontracted to Env Sci Co Mount Juliet. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method 8011 - EDB: This method was subcontracted to Eurofins PA. The subcontract laboratory certification is different from that of the facility issuing the final report.

Glossary

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

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-2
Date Collected: 02/01/16 09:50
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 14:26	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-5
Date Collected: 02/01/16 11:30
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 14:52	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-8D
Date Collected: 02/01/16 12:35
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 14:57	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-8A
Date Collected: 02/01/16 13:10
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:02	1

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-8
Date Collected: 02/01/16 13:55
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:28	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-7D
Date Collected: 02/02/16 09:50
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:33	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-7A
Date Collected: 02/02/16 10:25
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:39	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-7
Date Collected: 02/02/16 11:00
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:44	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-1
Date Collected: 02/02/16 11:35
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:49	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-4
Date Collected: 02/02/16 12:15
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:54	1

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-6A
Date Collected: 02/02/16 13:00
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 15:59	1

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-6D
Date Collected: 02/02/16 13:20
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:05	1

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-6
Date Collected: 02/02/16 13:40
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-14
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:10	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-3A
Date Collected: 02/02/16 14:25
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-15
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:15	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-3D
Date Collected: 02/02/16 14:55
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-16
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:31	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-3
Date Collected: 02/02/16 15:20
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-17
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:36	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: Field Blank
Date Collected: 02/02/16 15:30
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-18
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 16:41	1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 490-317387/1-B
Matrix: Water
Analysis Batch: 321851

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 317397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.00200		mg/L		02/10/16 15:53	03/04/16 14:16	1

Lab Sample ID: LCS 490-317387/2-B
Matrix: Water
Analysis Batch: 321851

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 317397

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead, Dissolved			0.100	0.09896		mg/L		99	80 - 120		

Lab Sample ID: 490-97142-2 MS
Matrix: Water
Analysis Batch: 321851

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 317397

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead, Dissolved	ND		0.100	0.09936		mg/L		99	75 - 125		

Lab Sample ID: 490-97142-2 MSD
Matrix: Water
Analysis Batch: 321851

Client Sample ID: MW-2
Prep Type: Dissolved
Prep Batch: 317397

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead, Dissolved	ND		0.100	0.1030		mg/L		103	75 - 125	4	20

Metals

Filtration Batch: 317387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97142-2	MW-2	Dissolved	Water	Filtration	
490-97142-2 MS	MW-2	Dissolved	Water	Filtration	
490-97142-2 MSD	MW-2	Dissolved	Water	Filtration	
490-97142-3	MW-5	Dissolved	Water	Filtration	
490-97142-4	MW-8D	Dissolved	Water	Filtration	
490-97142-5	MW-8A	Dissolved	Water	Filtration	
490-97142-6	MW-8	Dissolved	Water	Filtration	
490-97142-7	MW-7D	Dissolved	Water	Filtration	
490-97142-8	MW-7A	Dissolved	Water	Filtration	
490-97142-9	MW-7	Dissolved	Water	Filtration	
490-97142-10	MW-1	Dissolved	Water	Filtration	
490-97142-11	MW-4	Dissolved	Water	Filtration	
490-97142-12	MW-6A	Dissolved	Water	Filtration	
490-97142-13	MW-6D	Dissolved	Water	Filtration	
490-97142-14	MW-6	Dissolved	Water	Filtration	
490-97142-15	MW-3A	Dissolved	Water	Filtration	
490-97142-16	MW-3D	Dissolved	Water	Filtration	
490-97142-17	MW-3	Dissolved	Water	Filtration	
490-97142-18	Field Blank	Dissolved	Water	Filtration	
LCS 490-317387/2-B	Lab Control Sample	Dissolved	Water	Filtration	
MB 490-317387/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 317397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97142-2	MW-2	Dissolved	Water	3005A	317387
490-97142-2 MS	MW-2	Dissolved	Water	3005A	317387
490-97142-2 MSD	MW-2	Dissolved	Water	3005A	317387
490-97142-3	MW-5	Dissolved	Water	3005A	317387
490-97142-4	MW-8D	Dissolved	Water	3005A	317387
490-97142-5	MW-8A	Dissolved	Water	3005A	317387
490-97142-6	MW-8	Dissolved	Water	3005A	317387
490-97142-7	MW-7D	Dissolved	Water	3005A	317387
490-97142-8	MW-7A	Dissolved	Water	3005A	317387
490-97142-9	MW-7	Dissolved	Water	3005A	317387
490-97142-10	MW-1	Dissolved	Water	3005A	317387
490-97142-11	MW-4	Dissolved	Water	3005A	317387
490-97142-12	MW-6A	Dissolved	Water	3005A	317387
490-97142-13	MW-6D	Dissolved	Water	3005A	317387
490-97142-14	MW-6	Dissolved	Water	3005A	317387
490-97142-15	MW-3A	Dissolved	Water	3005A	317387
490-97142-16	MW-3D	Dissolved	Water	3005A	317387
490-97142-17	MW-3	Dissolved	Water	3005A	317387
490-97142-18	Field Blank	Dissolved	Water	3005A	317387
LCS 490-317387/2-B	Lab Control Sample	Dissolved	Water	3005A	317387
MB 490-317387/1-B	Method Blank	Dissolved	Water	3005A	317387

Analysis Batch: 321851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97142-2	MW-2	Dissolved	Water	6020	317397
490-97142-2 MS	MW-2	Dissolved	Water	6020	317397
490-97142-2 MSD	MW-2	Dissolved	Water	6020	317397

Metals (Continued)

Analysis Batch: 321851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97142-3	MW-5	Dissolved	Water	6020	317397
490-97142-4	MW-8D	Dissolved	Water	6020	317397
490-97142-5	MW-8A	Dissolved	Water	6020	317397
490-97142-6	MW-8	Dissolved	Water	6020	317397
490-97142-7	MW-7D	Dissolved	Water	6020	317397
490-97142-8	MW-7A	Dissolved	Water	6020	317397
490-97142-9	MW-7	Dissolved	Water	6020	317397
490-97142-10	MW-1	Dissolved	Water	6020	317397
490-97142-11	MW-4	Dissolved	Water	6020	317397
490-97142-12	MW-6A	Dissolved	Water	6020	317397
490-97142-13	MW-6D	Dissolved	Water	6020	317397
490-97142-14	MW-6	Dissolved	Water	6020	317397
490-97142-15	MW-3A	Dissolved	Water	6020	317397
490-97142-16	MW-3D	Dissolved	Water	6020	317397
490-97142-17	MW-3	Dissolved	Water	6020	317397
490-97142-18	Field Blank	Dissolved	Water	6020	317397
LCS 490-317387/2-B	Lab Control Sample	Dissolved	Water	6020	317397
MB 490-317387/1-B	Method Blank	Dissolved	Water	6020	317397

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-2
Date Collected: 02/01/16 09:50
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 14:26	CME	TAL NSH

Client Sample ID: MW-5
Date Collected: 02/01/16 11:30
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 14:52	CME	TAL NSH

Client Sample ID: MW-8D
Date Collected: 02/01/16 12:35
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 14:57	CME	TAL NSH

Client Sample ID: MW-8A
Date Collected: 02/01/16 13:10
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:02	CME	TAL NSH

Client Sample ID: MW-8
Date Collected: 02/01/16 13:55
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:28	CME	TAL NSH

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-7D
Date Collected: 02/02/16 09:50
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:33	CME	TAL NSH

Client Sample ID: MW-7A
Date Collected: 02/02/16 10:25
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:39	CME	TAL NSH

Client Sample ID: MW-7
Date Collected: 02/02/16 11:00
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:44	CME	TAL NSH

Client Sample ID: MW-1
Date Collected: 02/02/16 11:35
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:49	CME	TAL NSH

Client Sample ID: MW-4
Date Collected: 02/02/16 12:15
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:54	CME	TAL NSH

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-6A
Date Collected: 02/02/16 13:00
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 15:59	CME	TAL NSH

Client Sample ID: MW-6D
Date Collected: 02/02/16 13:20
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:05	CME	TAL NSH

Client Sample ID: MW-6
Date Collected: 02/02/16 13:40
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:10	CME	TAL NSH

Client Sample ID: MW-3A
Date Collected: 02/02/16 14:25
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:15	CME	TAL NSH

Client Sample ID: MW-3D
Date Collected: 02/02/16 14:55
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:31	CME	TAL NSH

Lab Chronicle

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Client Sample ID: MW-3

Date Collected: 02/02/16 15:20
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:36	CME	TAL NSH

Client Sample ID: Field Blank

Date Collected: 02/02/16 15:30
Date Received: 02/04/16 09:15

Lab Sample ID: 490-97142-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	317397	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	317387	02/10/16 15:53	ZLN	TAL NSH
Dissolved	Analysis	6020		1	50 mL	50 mL	321851	03/04/16 16:41	CME	TAL NSH

Laboratory References:

Env Sci Co = Env Sci Co Mount Juliet, 12065 Lebanon Road, Mount Juliet, TN 37122

EurofinsPA = Eurofins PA, Accounts Payable, 2425 New Holland Pike, Lancaster, PA 17601

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL NSH
8011 - EDB	EDB	NONE	EurofinsPA
8260 PA ULG List	VOC by 8260	NONE	Env Sci Co

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Env Sci Co = Env Sci Co Mount Juliet, 12065 Lebanon Road, Mount Juliet, TN 37122

EurofinsPA = Eurofins PA, Accounts Payable, 2425 New Holland Pike, Lancaster, PA 17601

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AECOM, Inc.
Project/Site: 28214.New Oxford.EL (PA)

TestAmerica Job ID: 490-97142-1
SDG: 430 Lincoln Way, New Oxford, PA

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	68-00585	06-30-16

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

February 17, 2016

Project: 490-97142

Submittal Date: 02/13/2016
Group Number: 1631456
PO Number: 490-97142
State of Sample Origin: PA

Client Sample Description	Lancaster Labs (LL) #
490-97142-2 Water	8242698
490-97142-3 Water	8242699
490-97142-4 Water	8242700
490-97142-5 Water	8242701
490-97142-6 Water	8242702
490-97142-7 Water	8242703
490-97142-8 Water	8242704
490-97142-9 Water	8242705
490-97142-10 Water	8242706
490-97142-11 Water	8242707
490-97142-12 Water	8242708
490-97142-13 Water	8242709
490-97142-14 Water	8242710
490-97142-15 Water	8242711
490-97142-16 Water	8242712
490-97142-17 Water	8242713
490-97142-18 Water	8242714

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

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

ELECTRONIC COPY TO Test America, Inc. Nashville Attn: Sherry Salomon

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

(717) 556-7257

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Analysis Report

Sample Description: 490-97142-2 Water
490-97142

LL Sample # WW 8242698
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/01/2016 09:50

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-2

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 16:23	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-3 Water
490-97142

LL Sample # WW 8242699
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/01/2016 11:30

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 16:39	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-4 Water
490-97142

LL Sample # WW 8242700
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/01/2016 12:35

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0097	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 17:11	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-5 Water
490-97142

LL Sample # WW 8242701
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/01/2016 13:10

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 17:27	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-6 Water
490-97142

LL Sample # WW 8242702
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/01/2016 13:55

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0097	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 17:43	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-7 Water
490-97142

LL Sample # WW 8242703
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 09:50

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-7

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 18:30	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-8 Water
490-97142

LL Sample # WW 8242704
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 10:25

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-8

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 18:46	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

Sample Description: 490-97142-9 Water
490-97142

LL Sample # WW 8242705
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 11:00

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

142-9

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 19:02	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-10 Water
490-97142

LL Sample # WW 8242706
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 11:35

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14210

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 19:18	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-11 Water
490-97142

LL Sample # WW 8242707
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 12:15

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14211

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0093	0.028	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 19:34	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

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Analysis Report

Sample Description: 490-97142-12 Water
490-97142

LL Sample # WW 8242708
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 13:00

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14212

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 19:49	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-13 Water
490-97142

LL Sample # WW 8242709
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 13:20

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14213

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0097	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 20:05	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

Sample Description: 490-97142-14 Water
490-97142

LL Sample # WW 8242710
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 13:40

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14214

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		ug/l	ug/l	ug/l	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 20:21	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-15 Water
490-97142

LL Sample # WW 8242711
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 14:25

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14215

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0095	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 20:37	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

Sample Description: 490-97142-16 Water
490-97142

LL Sample # WW 8242712
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 14:55

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14216

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 20:53	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-17 Water
490-97142

LL Sample # WW 8242713
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 15:20

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14217

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 21:41	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: 490-97142-18 Water
490-97142

LL Sample # WW 8242714
LL Group # 1631456
Account # 11175

Project Name: 490-97142

Collected: 02/02/2016 15:30

Submitted: 02/13/2016 10:15
Reported: 02/17/2016 14:07

Test America, Inc. Nashville
2960 Foster Creighton Drive
Nashville TN 37204

14218

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8011**		**ug/l**	**ug/l**	**ug/l**	
10398	Ethylene dibromide	106-93-4	N.D.	0.0096	0.029	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/17.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10398	8011 Master Master	SW-846 8011	1	160460002A	02/16/2016 21:57	Heather M Manns	1
07786	EDB Extraction (8011)	SW-846 8011	1	160460002A	02/15/2016 15:30	Edwin Ortiz	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Test America, Inc. Nashville Group Number: 1631456
Reported: 02/17/2016 14:07

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

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

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: 160460002A	Sample number(s): 8242698-8242714		
Ethylene dibromide	N.D.	0.010	0.030

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160460002A	Sample number(s): 8242698-8242714								
Ethylene dibromide	0.128	0.110	0.128	0.112	86	87	60-140	1	20

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 160460002A	Sample number(s): 8242698-8242714 UNSPK: 8242699									
Ethylene dibromide	N.D.	0.123	0.103			84		60-140		

Laboratory Duplicate

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	ug/l	ug/l		
Batch number: 160460002A	Sample number(s): 8242698-8242714 BKG: 8242698			
Ethylene dibromide	N.D.	N.D.	0 (1)	30

Surrogate Quality Control

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

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Test America, Inc. Nashville Group Number: 1631456
Reported: 02/17/2016 14:07

Analysis Name: 8011 Master Master
Batch number: 160460002A

	1,1,2,2-Tetrachloroethane
8242698	112
8242699	114
8242700	111
8242701	110
8242702	106
8242703	119
8242704	113
8242705	115
8242706	117
8242707	102
8242708	111
8242709	107
8242710	112
8242711	129
8242712	124
8242713	114
8242714	107
Blank	116
DUP	108
LCS	110
LCSD	112
MS	107
Limits:	46-136

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Ship to Eurofins
2425 New Holland Pike
Lancaster, PA 17605

11175 | 1631456 | 8242698-714

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
Is this work being conducted for regulatory purposes?
Compliance Monitoring _____

615-656-2300 Client Name: TestAmerica, Inc Client #: _____

Address: 2960 Foster Creighton Drive

City/State/Zip Code: Nashville, TN 37204

Project Manager: Sherry Salomon

Telephone Number: 615-301-5033 Fax: _____

Sampler Name: (Print Name) _____

Sampler Signature: _____

Project Name: 490-97142

Project #: _____

Site/Location ID: _____ State: PA

Report To: sherry.salomon@testamericainc.com

Invoice To: _____

Quote #: _____ PO#: _____

TAT
___ Standard
___ Rush (surcharges may apply)

Date Needed: _____

Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: 8011 EDB	REMARKS
~~MW-2~~ 490-97142-2	2/1/16	950											X	
~~MW-5~~ 490-97142-3		1130											X	
~~MW-8D~~ 490-97142-4		1235											X	
~~MW-8A~~ 490-97142-5		1310											X	
~~MW-8~~ 490-97142-6		1355											X	
~~MW-7D~~ 490-97142-7	2/2/16	950											X	
~~MW-7A~~ 490-97142-8		1025											X	
~~MW-7~~ 490-97142-9		1100											X	
~~MW-1~~ 490-97142-10		1135											X	
~~MW-4~~ 490-97142-11		1215											X	

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

Special Instructions:

PA Cert

Relinquished By:	Date: 2/2/16	Time: 1601	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date: 2/3/16	Time: 1015

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Ship to Eurofins
2425 New Holland Pike
Lancaster, PA 17605

11175 | 1631456 | 8242698-714

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods,
Is this work being conducted for regulatory purposes?
Compliance Monitoring _____

717-656-2300 Client Name: TestAmerica, Inc Client #: _____
Address: 2960 Foster Creighton Drive
City/State/Zip Code: Nashville, TN 37204
Project Manager: Sherry Salomon
Telephone Number: 615-301-5033 Fax: _____
Sampler Name: (Print Name) _____
Sampler Signature: _____

Project Name: 490-97142
Project #: _____
Site/Location ID: _____ State: PA
Report To: sherry.salomon@testamericainc.com
Invoice To: _____
Quote #: _____ PO#: _____

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, S - Soil/Solid, GW - Groundwater, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: 8011 EDB	REMARKS
~~MW-6A~~ 490-97142-12	2/2/16	1300											X	
~~MW-6D~~ 490-97142-13		1320											X	
~~MW-6~~ 490-97142-14		1340											X	
~~MW-3A~~ 490-97142-15		1425											X	
~~MW-3D~~ 490-97142-16		1455											X	
~~MW-3~~ 490-97142-17		1520											X	
~~Field Blank~~ 490-97142-18		1530												

Special Instructions:
PA Cert

	Date	Time		Date	Time
Relinquished By:	2/2/16	16:01	Received By:		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	2/3/16	1015

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 136361

Group Number(s): 1631456

Client: Test America

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	02/13/2016 10:15
Number of Packages:	1	Number of Projects:	4

Arrival Condition Summary

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

Unpacked by Krista Abel (3058) at 13:08 on 02/13/2016

Samples Chilled Details

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

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	4.4	IR	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

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ANALYTICAL REPORT

February 15, 2016

Test America -TN

Sample Delivery Group:	L817349
Samples Received:	02/11/2016
Project Number:	490-97142-1
Description:	

Report To: Andy Johnson
2960 Foster Creighton Avenue
Nashville, TN 37204

Entire Report Reviewed By: Brian Ford

Brian Ford
Technical Service Representative

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.esclabsciences.com

490-97142-1 L817349-01 GW

Collected by | Collected date/time 02/01/16 00:01 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 20:33	02/12/16 20:33	ACG

490-97142-2 L817349-02 GW

Collected by | Collected date/time 02/01/16 09:50 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 21:15	02/12/16 21:15	ACG

490-97142-3 L817349-03 GW

Collected by | Collected date/time 02/01/16 11:30 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 21:36	02/12/16 21:36	ACG

490-97142-4 L817349-04 GW

Collected by | Collected date/time 02/01/16 12:35 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 21:57	02/12/16 21:57	ACG

490-97142-5 L817349-05 GW

Collected by | Collected date/time 02/01/16 13:10 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 22:19	02/12/16 22:19	ACG

490-97142-6 L817349-06 GW

Collected by | Collected date/time 02/01/16 13:55 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 22:40	02/12/16 22:40	ACG

490-97142-7 L817349-07 GW

Collected by | Collected date/time 02/02/16 09:50 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 23:01	02/12/16 23:01	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	100	02/15/16 14:03	02/15/16 14:03	JHH

490-97142-8 L817349-08 GW

Collected by | Collected date/time 02/02/16 10:25 | Received date/time 02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 23:22	02/12/16 23:22	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	1	02/15/16 13:19	02/15/16 13:19	JHH

490-97142-9 L817349-09 GW

Collected by	Collected date/time	Received date/time
	02/02/16 11:00	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/12/16 23:43	02/12/16 23:43	ACG

490-97142-10 L817349-10 GW

Collected by	Collected date/time	Received date/time
	02/02/16 11:35	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 00:03	02/13/16 00:03	ACG

490-97142-11 L817349-11 GW

Collected by	Collected date/time	Received date/time
	02/02/16 12:15	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 00:24	02/13/16 00:24	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	20	02/15/16 14:25	02/15/16 14:25	JHH

490-97142-12 L817349-12 GW

Collected by	Collected date/time	Received date/time
	02/02/16 13:00	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 00:45	02/13/16 00:45	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	20	02/15/16 14:48	02/15/16 14:48	JHH

490-97142-13 L817349-13 GW

Collected by	Collected date/time	Received date/time
	02/02/16 13:20	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 01:06	02/13/16 01:06	ACG

490-97142-14 L817349-14 GW

Collected by	Collected date/time	Received date/time
	02/02/16 13:40	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 01:27	02/13/16 01:27	ACG

490-97142-15 L817349-15 GW

Collected by	Collected date/time	Received date/time
	02/02/16 14:25	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 01:48	02/13/16 01:48	ACG

490-97142-16 L817349-16 GW

Collected by	Collected date/time	Received date/time
	02/02/16 14:55	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 02:08	02/13/16 02:08	ACG

490-97142-17 L817349-17 GW

Collected by	Collected date/time	Received date/time
	02/02/16 15:20	02/11/16 18:03

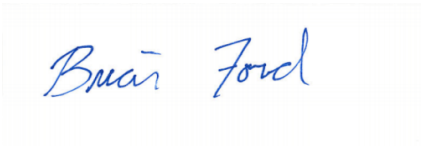
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 02:29	02/13/16 02:29	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	20	02/15/16 15:10	02/15/16 15:10	JHH

490-97142-18 L817349-18 GW

Collected by	Collected date/time	Received date/time
	02/02/16 15:30	02/11/16 18:03

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849092	1	02/13/16 02:50	02/13/16 02:50	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG849286	1	02/15/16 13:42	02/15/16 13:42	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 20:33	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 20:33	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 20:33	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 20:33	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 20:33	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/12/2016 20:33	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 20:33	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 20:33	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 20:33	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 20:33	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 20:33	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/12/2016 20:33*	WG849092
(S) Dibromofluoromethane	*97.4*			*79.0-121*		*02/12/2016 20:33*	WG849092
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*02/12/2016 20:33*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 21:15	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 21:15	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 21:15	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 21:15	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 21:15	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/12/2016 21:15	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 21:15	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 21:15	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 21:15	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 21:15	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 21:15	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/12/2016 21:15*	WG849092
(S) Dibromofluoromethane	*100*			*79.0-121*		*02/12/2016 21:15*	WG849092
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*02/12/2016 21:15*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 21:36	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 21:36	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 21:36	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 21:36	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 21:36	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/12/2016 21:36	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 21:36	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 21:36	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 21:36	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 21:36	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 21:36	WG849092
(S) Toluene-d8	*102*			*90.0-115*		*02/12/2016 21:36*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/12/2016 21:36*	WG849092
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*02/12/2016 21:36*	WG849092

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 21:57	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 21:57	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 21:57	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 21:57	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 21:57	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/12/2016 21:57	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 21:57	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 21:57	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 21:57	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 21:57	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 21:57	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/12/2016 21:57*	WG849092
(S) Dibromofluoromethane	*104*			*79.0-121*		*02/12/2016 21:57*	WG849092
(S) 4-Bromofluorobenzene	*101*			*80.1-120*		*02/12/2016 21:57*	WG849092

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 22:19	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 22:19	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 22:19	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 22:19	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 22:19	WG849092
Methyl tert-butyl ether	188		0.367	1.00	1	02/12/2016 22:19	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 22:19	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 22:19	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 22:19	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 22:19	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 22:19	WG849092
(S) Toluene-d8	*105*			*90.0-115*		*02/12/2016 22:19*	WG849092
(S) Dibromofluoromethane	*103*			*79.0-121*		*02/12/2016 22:19*	WG849092
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*02/12/2016 22:19*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 22:40	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 22:40	WG849092
1,2-Dichloroethane	0.847	J	0.361	1.00	1	02/12/2016 22:40	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 22:40	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 22:40	WG849092
Methyl tert-butyl ether	65.0		0.367	1.00	1	02/12/2016 22:40	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 22:40	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 22:40	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 22:40	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 22:40	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 22:40	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/12/2016 22:40*	WG849092
(S) Dibromofluoromethane	*99.8*			*79.0-121*		*02/12/2016 22:40*	WG849092
(S) 4-Bromofluorobenzene	*99.4*			*80.1-120*		*02/12/2016 22:40*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 23:01	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 23:01	WG849092
1,2-Dichloroethane	0.457	J	0.361	1.00	1	02/12/2016 23:01	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 23:01	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 23:01	WG849092
Methyl tert-butyl ether	1370		36.7	100	100	02/15/2016 14:03	WG849286
Naphthalene	U		1.00	5.00	1	02/12/2016 23:01	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 23:01	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 23:01	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 23:01	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 23:01	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/12/2016 23:01*	WG849092
(S) Dibromofluoromethane	*100*			*79.0-121*		*02/12/2016 23:01*	WG849092
(S) 4-Bromofluorobenzene	*99.4*			*80.1-120*		*02/12/2016 23:01*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 23:22	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 23:22	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 23:22	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 23:22	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 23:22	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/15/2016 13:19	WG849286
Naphthalene	U		1.00	5.00	1	02/12/2016 23:22	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 23:22	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 23:22	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 23:22	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 23:22	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/12/2016 23:22*	WG849092
(S) Dibromofluoromethane	*102*			*79.0-121*		*02/12/2016 23:22*	WG849092
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*02/12/2016 23:22*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/12/2016 23:43	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/12/2016 23:43	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/12/2016 23:43	WG849092
Ethylbenzene	U		0.384	1.00	1	02/12/2016 23:43	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/12/2016 23:43	WG849092
Methyl tert-butyl ether	29.5		0.367	1.00	1	02/12/2016 23:43	WG849092
Naphthalene	U		1.00	5.00	1	02/12/2016 23:43	WG849092
Toluene	U		0.780	5.00	1	02/12/2016 23:43	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/12/2016 23:43	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/12/2016 23:43	WG849092
Xylenes, Total	U		1.06	3.00	1	02/12/2016 23:43	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/12/2016 23:43*	WG849092
(S) Dibromofluoromethane	*104*			*79.0-121*		*02/12/2016 23:43*	WG849092
(S) 4-Bromofluorobenzene	*98.4*			*80.1-120*		*02/12/2016 23:43*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 00:03	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 00:03	WG849092
1,2-Dichloroethane	0.576	J	0.361	1.00	1	02/13/2016 00:03	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 00:03	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 00:03	WG849092
Methyl tert-butyl ether	37.2		0.367	1.00	1	02/13/2016 00:03	WG849092
Naphthalene	U		1.00	5.00	1	02/13/2016 00:03	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 00:03	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 00:03	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 00:03	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 00:03	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 00:03*	WG849092
(S) Dibromofluoromethane	*103*			*79.0-121*		*02/13/2016 00:03*	WG849092
(S) 4-Bromofluorobenzene	*98.5*			*80.1-120*		*02/13/2016 00:03*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 00:24	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 00:24	WG849092
1,2-Dichloroethane	1.13		0.361	1.00	1	02/13/2016 00:24	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 00:24	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 00:24	WG849092
Methyl tert-butyl ether	283		7.34	20.0	20	02/15/2016 14:25	WG849286
Naphthalene	U		1.00	5.00	1	02/13/2016 00:24	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 00:24	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 00:24	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 00:24	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 00:24	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 00:24*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/13/2016 00:24*	WG849092
(S) 4-Bromofluorobenzene	*96.4*			*80.1-120*		*02/13/2016 00:24*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 00:45	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 00:45	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 00:45	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 00:45	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 00:45	WG849092
Methyl tert-butyl ether	379		7.34	20.0	20	02/15/2016 14:48	WG849286
Naphthalene	U		1.00	5.00	1	02/13/2016 00:45	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 00:45	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 00:45	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 00:45	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 00:45	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 00:45*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/13/2016 00:45*	WG849092
(S) 4-Bromofluorobenzene	*98.0*			*80.1-120*		*02/13/2016 00:45*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 01:06	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 01:06	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 01:06	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 01:06	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 01:06	WG849092
Methyl tert-butyl ether	47.4		0.367	1.00	1	02/13/2016 01:06	WG849092
Naphthalene	U		1.00	5.00	1	02/13/2016 01:06	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 01:06	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 01:06	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 01:06	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 01:06	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 01:06*	WG849092
(S) Dibromofluoromethane	*101*			*79.0-121*		*02/13/2016 01:06*	WG849092
(S) 4-Bromofluorobenzene	*98.8*			*80.1-120*		*02/13/2016 01:06*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 01:27	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 01:27	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 01:27	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 01:27	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 01:27	WG849092
Methyl tert-butyl ether	0.540	J	0.367	1.00	1	02/13/2016 01:27	WG849092
Naphthalene	U		1.00	5.00	1	02/13/2016 01:27	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 01:27	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 01:27	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 01:27	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 01:27	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/13/2016 01:27*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/13/2016 01:27*	WG849092
(S) 4-Bromofluorobenzene	*97.2*			*80.1-120*		*02/13/2016 01:27*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 01:48	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 01:48	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 01:48	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 01:48	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 01:48	WG849092
Methyl tert-butyl ether	62.3		0.367	1.00	1	02/13/2016 01:48	WG849092
Naphthalene	U		1.00	5.00	1	02/13/2016 01:48	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 01:48	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 01:48	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 01:48	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 01:48	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/13/2016 01:48*	WG849092
(S) Dibromofluoromethane	*101*			*79.0-121*		*02/13/2016 01:48*	WG849092
(S) 4-Bromofluorobenzene	*92.1*			*80.1-120*		*02/13/2016 01:48*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 02:08	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 02:08	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 02:08	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 02:08	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 02:08	WG849092
Methyl tert-butyl ether	6.85		0.367	1.00	1	02/13/2016 02:08	WG849092
Naphthalene	U		1.00	5.00	1	02/13/2016 02:08	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 02:08	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 02:08	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 02:08	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 02:08	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 02:08*	WG849092
(S) Dibromofluoromethane	*107*			*79.0-121*		*02/13/2016 02:08*	WG849092
(S) 4-Bromofluorobenzene	*96.8*			*80.1-120*		*02/13/2016 02:08*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 02:29	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 02:29	WG849092
1,2-Dichloroethane	2.75		0.361	1.00	1	02/13/2016 02:29	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 02:29	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 02:29	WG849092
Methyl tert-butyl ether	517		7.34	20.0	20	02/15/2016 15:10	WG849286
Naphthalene	U		1.00	5.00	1	02/13/2016 02:29	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 02:29	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 02:29	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 02:29	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 02:29	WG849092
(S) Toluene-d8	*103*			*90.0-115*		*02/13/2016 02:29*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/13/2016 02:29*	WG849092
(S) 4-Bromofluorobenzene	*97.2*			*80.1-120*		*02/13/2016 02:29*	WG849092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	02/13/2016 02:50	WG849092
1,2-Dibromoethane	U		0.381	1.00	1	02/13/2016 02:50	WG849092
1,2-Dichloroethane	U		0.361	1.00	1	02/13/2016 02:50	WG849092
Ethylbenzene	U		0.384	1.00	1	02/13/2016 02:50	WG849092
Isopropylbenzene	U		0.326	1.00	1	02/13/2016 02:50	WG849092
Methyl tert-butyl ether	U		0.367	1.00	1	02/15/2016 13:42	WG849286
Naphthalene	U		1.00	5.00	1	02/13/2016 02:50	WG849092
Toluene	U		0.780	5.00	1	02/13/2016 02:50	WG849092
1,2,4-Trimethylbenzene	U		0.373	1.00	1	02/13/2016 02:50	WG849092
1,3,5-Trimethylbenzene	U		0.387	1.00	1	02/13/2016 02:50	WG849092
Xylenes, Total	U		1.06	3.00	1	02/13/2016 02:50	WG849092
(S) Toluene-d8	*104*			*90.0-115*		*02/13/2016 02:50*	WG849092
(S) Dibromofluoromethane	*105*			*79.0-121*		*02/13/2016 02:50*	WG849092
(S) 4-Bromofluorobenzene	*96.1*			*80.1-120*		*02/13/2016 02:50*	WG849092

Method Blank (MB)

(MB) 02/12/16 18:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
1,2-Dibromoethane	U		0.000381	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
Ethylbenzene	U		0.000384	0.00100
Isopropylbenzene	U		0.000326	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000780	0.00500
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*99.1*			*79.0-121*
(S) 4-Bromofluorobenzene	*98.9*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/12/16 17:24 • (LCSD) 02/12/16 17:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0281	0.0284	112	114	73.0-122			1.23	20
1,2-Dibromoethane	0.0250	0.0254	0.0252	102	101	79.8-122			1.07	20
1,2-Dichloroethane	0.0250	0.0268	0.0267	107	107	65.3-126			0.490	20
Ethylbenzene	0.0250	0.0266	0.0264	106	106	80.9-121			0.500	20
Isopropylbenzene	0.0250	0.0265	0.0265	106	106	81.6-124			0.300	20
Methyl tert-butyl ether	0.0250	0.0258	0.0251	103	100	70.1-125			2.68	20
Naphthalene	0.0250	0.0215	0.0227	86.1	90.9	69.7-134			5.36	20
Toluene	0.0250	0.0275	0.0275	110	110	77.9-116			0.0800	20
1,2,4-Trimethylbenzene	0.0250	0.0266	0.0268	107	107	79.0-122			0.550	20
1,3,5-Trimethylbenzene	0.0250	0.0259	0.0260	103	104	81.0-123			0.470	20
Xylenes, Total	0.0750	0.0787	0.0788	105	105	79.2-122			0.160	20
(S) Toluene-d8				*103*	*103*	*90.0-115*				
(S) Dibromofluoromethane				*98.7*	*100*	*79.0-121*				
(S) 4-Bromofluorobenzene				*103*	*104*	*80.1-120*				

L817349-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/12/16 20:33 • (MS) 02/12/16 19:09 • (MSD) 02/12/16 19:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0293	0.0295	117	118	1	58.6-133			0.800	20
1,2-Dibromoethane	0.0250	ND	0.0258	0.0274	103	109	1	73.8-131			5.82	20
1,2-Dichloroethane	0.0250	ND	0.0267	0.0284	107	113	1	60.7-132			6.08	20
Ethylbenzene	0.0250	ND	0.0283	0.0284	113	114	1	62.7-136			0.240	20
Isopropylbenzene	0.0250	ND	0.0279	0.0277	112	111	1	67.4-136			0.650	20
Methyl tert-butyl ether	0.0250	ND	0.0251	0.0258	100	103	1	61.4-136			2.83	20
Naphthalene	0.0250	ND	0.0221	0.0241	88.5	96.5	1	61.8-143			8.61	20
Toluene	0.0250	ND	0.0293	0.0291	117	116	1	67.8-124			0.560	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0285	0.0283	114	113	1	60.5-137			0.800	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0276	0.0272	110	109	1	67.9-134			1.39	20
Xylenes, Total	0.0750	ND	0.0843	0.0838	112	112	1	65.6-133			0.590	20
(S) Toluene-d8					*100*	*101*		*90.0-115*				
(S) Dibromofluoromethane					*95.7*	*97.7*		*79.0-121*				
(S) 4-Bromofluorobenzene					*102*	*103*		*80.1-120*				

Method Blank (MB)

(MB) 02/15/16 08:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Methyl tert-butyl ether	U		0.000367	0.00100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/15/16 07:04 • (LCSD) 02/15/16 07:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Methyl tert-butyl ether	0.0250	0.0182	0.0201	72.6	80.2	70.1-125			9.97	20

L817115-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/15/16 11:06 • (MS) 02/15/16 09:16 • (MSD) 02/15/16 09:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Methyl tert-butyl ether	0.0250	0.0802	0.104	0.0994	93.6	76.9	1	61.4-136			4.11	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

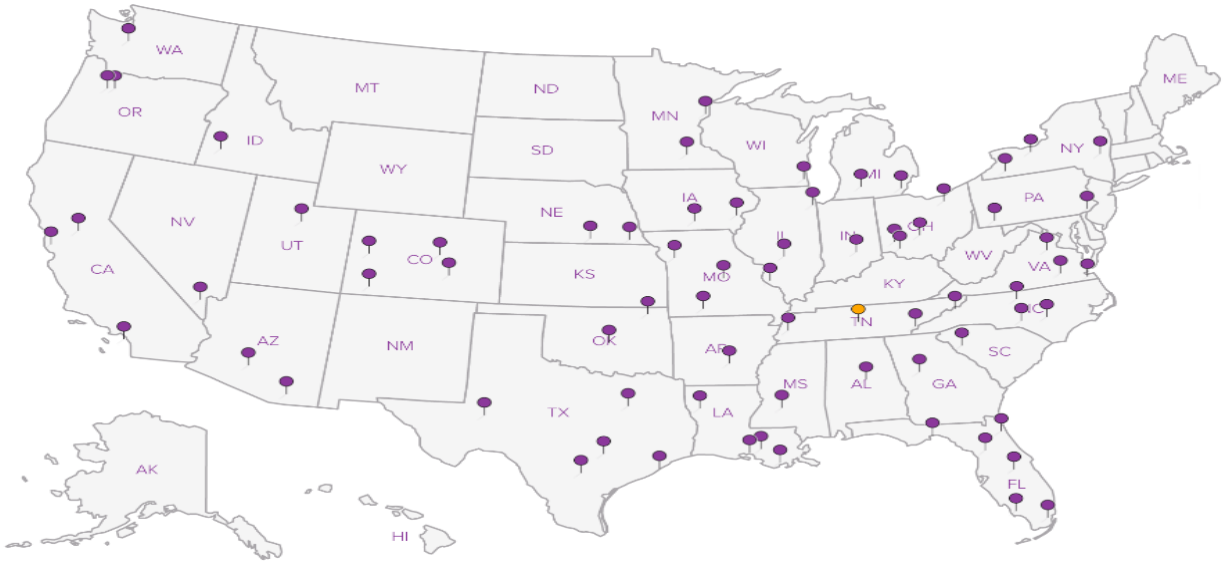
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact:
Company: TestAmerica Nashville
Address: 2960 Foster Creighton Drive
City: Nashville
State, Zip: TN 37204
Phone: 615-301-5033
Email: Sherry.Salomon@testamericainc.com
Project Name: 490-97142-1
Site:

Sampler:
Phone:

Lab PM: Salomon, Sherry
E-Mail: Sherry.Salomon@testamericainc.com

Carrier Tracking No(s):

COC No:
Page: 1 of 2
Job #: 490-97142-1

Due Date Requested:
TAT Requested (days): Due Date Requested: 2-15-16
PO #:
WO #:
Lab Project #: 490-97142-1

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

G037

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - PA Leaded + Unleaded Gasoline Volatiles List	Total Number of containers	Special Instructions/Note:
Trip Blank	2/1/16	0001						X		490-97142-1 81734/9-01
MW-2	2/1/16	0950						X		490-97142-2 02
MW-5	2/1/16	1130						X		490-97142-3 03
MW-8D	2/1/16	1235						X		490-97142-4 04
MW-8A	2/1/16	1310						X		490-97142-5 05
MW-8	2/1/16	1355						X		490-97142-6 06
MW-7D	2/2/16	950						X		490-97142-7 07
MW-7A	2/2/16	1025						X		490-97142-8 08
MW-7	2/2/16	1100						X		490-97142-9 09
MW-1	2/2/16	1135						X		490-97142-10 10
MW-4	2/2/16	1215						X		490-97142-11 11

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Special Instructions/QC Requirements: PA Certification 53=TP

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:	11 Feb 2016 1830	TAI	Received by:	2/11/16 1830	

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 29

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	E-Mail: Sherry.Salomon@testamericainc.com		Page: 2 of 2

Company: TestAmerica Nashville	Due Date Requested:	Job #: 490-97142-1
Address: 2960 Foster Creighton Drive		
City: Nashville	TAT Requested (days): Due Date Requested: 2-15-16	
State, Zip: TN 37204		
Phone: 615-301-5033	PO #:	
Email: Sherry.Salomon@testamericainc.com	WO #:	
Project Name: 490-97142-1	Lab Project #: 490-97142-1	
Site:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - PA Leaded + Unleaded Gasoline Volatiles List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-6A	2/2/16	1300					X		490-97142-12 817349-12
MW-6D	2/2/16	1320					X		490-97142-13 13
MW-6	2/2/16	1340					X		490-97142-14 14
MW-3A	2/2/16	1425					X		490-97142-15 15
MW-3D	2/2/16	1455					X		490-97142-16 16
MW-3	2/2/16	1520					X		490-97142-17 17
Field Blank	2/2/16	1530					X		490-97142-18 18

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: **PA Certification** 53=TP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/11/16 1830	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-97142 Chain of Custody

Cooler Received/Opened On 2/4/2016 @ 0915

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 0856 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 12080142 pH Strip Lot HC554612 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius*

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

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

   If yes, how many and where: 2 front

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

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

I certify that I opened the cooler and answered questions 1-6 (intial) COB

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

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

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

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

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

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

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

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (intial) B

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

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

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

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

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

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

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

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

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

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

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

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3/9/2016

Client Information	Sampler: TB/BM	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No: 490-49220-13055.1
Client Contact: Rich Firely	Phone: 717-795-8001	E-Mail: sherry.salomon@testamericainc.com		Page: Page ____ of ____
Company: AECOM, Inc.				Job #:

Address: 625 West Ridge Pike Suite E-100	Due Date Requested:
City: Conshohocken	TAT Requested (days):
State, Zip: PA, 19428	
Phone: 267-337-2847(Tel)	PO #: Purchase Order Requested
Email: richard.firely@aecom.com	WO #: WO231258
Project Name: 28214.New Oxford.EL (PA)	TestAmerica Project #: 49008402 (ENFOS)
Site: 430 Lincoln Way, New Oxford, PA	ENFOS PROJECT #: 104122-FPPS

Analysis Requested

Loc: 490
97142

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - PA Leaded + Unleaded Gasoline Volatiles	8011 - EDB	6020 - Lead, Dissolved (lab-filtered)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	A	A	N		
1 Trip Blank	2/1/16	—	G	W	N	N	X			2	
2 MW-2		0950					X	X	X	7	
3 MW-5		1130									
4 MW-8D		1235									
5 MW-8A		1310									
6 MW-8		1355									
7 MW-7D	2/2/16	0950									
8 MW-7A		1025									
9 MW-7		1100									
10 MW-1		1135									
11 MW-4		1215									

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 7-Eleven

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/2/16 1700	AECOM		2/3/16 0915	0.6
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3/9/2016

Client Information	Sampler: TB/BM	Lab PM: Salomon, Sherry	Carrier Tracking No(s):	COC No: 490-49220-13055.1
Client Contact: Rich Firely	Phone: 717-795-8001	E-Mail: sherry.salomon@testamericainc.com		Page: Page ____ of ____
Company: AECOM, Inc.				Job #:

Address: 625 West Ridge Pike Suite E-100	Due Date Requested:	
City: Conshohocken	TAT Requested (days):	
State, Zip: PA, 19428		
Phone: 267-337-2847(Tel)	PO #: Purchase Order Requested	
Email: richard.firely@aecom.com	WO #: WO231258	
Project Name: 28214.New Oxford.EL (PA)	TestAmerica Project #: 49008402 (ENFOS)	
Site: 430 Lincoln Way, New Oxford, PA	ENFOS PROJECT #: 104122-FPPS	

Analysis Requested

Loc: 490
97142

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - PA Leaded + Unleaded Gasoline Volatiles	8011 - EDB	6020 - Lead, Dissolved (lab-filtered)	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	A	N		
12	MW-6A	2/2/16	1300	G	W	N	N	X	X	X	7	
13	MW-6D		1320									
14	MW-6		1340									
15	MW-3A		1425									
16	MW-3D		1455									
17	MW-3		1520									
18	Field Blank		1530									

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements: 7-Eleven

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/2/16 1700	Company: AECOM	Received by: MAN
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Received by:	Date/Time: 2/4/16 0911	Company: 0.6	
Received by:	Date/Time:	Company:	
Received by:	Date/Time:	Company:	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 490-97142-1
SDG Number: 430 Lincoln Way, New Oxford, PA

Login Number: 97142
List Number: 1
Creator: Buckingham, Paul

List Source: TestAmerica Nashville

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