Environmental Remediation & Recovery, Inc.

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info@environmental-remediation.net

July 31, 2020

Mr. Barry Stanton, P.G.
Northwest Regional Office
Pennsylvania Department of Environmental Protection
230 Chestnut Street
Meadville, Pennsylvania 16335

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ICF - PAUSTIF

RE: 2nd Quarter 2020 Status Report
Former Russell City Store
Kane, Pennsylvania
PADEP Facility ID # 24-30431
USTIF Claim #2014-0170(S)
ER&R Project # 2014.74

Dear Mr. Stanton:

Environmental Remediation & Recovery, Inc. (ER&R) has prepared this RAPR on behalf Theodore Lutz, former owner of the property. The current owner of the property is Soggy Bottom, LLC. The Site is operated as a general store by Mr. Darin Frye (tenant). Geographic location of the site is provided on Figure 1.

Background Information

The Site was developed and has operated as a retail refueling and convenience store since the 1960s, referred to as Russell City Store. Mr. Lutz was the underground storage tank (UST) owner/operator of record at the time of the documented UST release. Four regulated petroleum USTs at the Site were registered under PADEP Facility ID# 24-30431. Two USTs registered as #001 and #002 were removed in 1999 by Harris Enterprises of Clarion, PA. Piping from USTs #003 and #004 was also removed and upgraded.

The confirmatory soil samples from the 1999 closure met standards/action levels for confirmatory samples collected at closure Site assessments although obvious localized contamination was observed surrounding USTs #001 and #002. Groundwater was not encountered during the removal. Approximately 5 tons of contaminated soils were excavated, staged onsite and land farmed. Soil samples analyzed from the land farmed soil were submitted in June 2000 and met the Statewide Health Standard (SHS). Remediated soils were reused onsite. PADEP issued Mr. Lutz a relief of liability (ROL) under Act 2 for the incident.

USTs #003 and #004 were closed, by removal, on November 25, 2014. The two tanks were located on the northeastern portion of the Site in a burial cavity common to the previously removed USTs #001 and #002. The USTs were configured with the long axis in the north-south direction perpendicular to State Route 66 with UST #004 (unleaded) being the easternmost UST. The dispensers, distribution piping and tanks were removed without incident and obvious soil contamination was not encountered. The excavated soils were reused for backfill. The USTs were in very good condition upon removal. Confirmatory soil samples were collected and analyzed as part of the closure Site assessment. The samples collected from beneath the east and west dispenser contained concentrations of 1,3,5 trimethylbenzene (TMB) and 1,2,4 TMB above PADEP SHS.

Mr. Barry Stanton is the assigned PADEP project officer. Corrective actions at the Site are being completed under the Underground Storage Tank Indemnification Fund (USTIF). James Ferro of ICF Consulting is the claims investigator for the Site under USTIF Claim # 2014-0170 (S).

A SCR was submitted to PADEP on August 13, 2019. In accordance with 25 PA Code 245.311, a remedial action plan (RAP) should have been prepared and submitted to PADEP within 45 days following SCR submission. However, the responsible party (Mr. Lutz) indicated to ER&R that funds were not available to authorize additional characterization, testing or preparation of a RAP.

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Groundwater Sampling Event

ER&R conducted the second quarter 2020 sampling event on June 15, 2020. Depth to groundwater measurements were collected for all accessible monitoring wells using an electronic water level indicator. Groundwater elevation data is presented on Table 1 and groundwater contour data for June 2020 are displayed on Figure 2. Groundwater flow is to the west and data mimics historical data.

ER&R collected groundwater samples from each accessible monitoring well. Prior to sampling, each well was purged of an estimated three to five well volumes utilizing a disposable bailer. Recharge in MW-1 and MW-8 was insufficient to collect a water sample.

Purge water was placed in a 55 gallon steel drum and staged onsite for waste disposal at a later date. Samples were submitted for laboratory analysis under chain of custody to Pace Analytical (Greensburg, Pennsylvania). Samples were submitted for laboratory analysis of the PADEP short list of unleaded gasoline parameters.

The SHS for a residential used aquifer (RUA) is the proposed groundwater remediation standard for the site. Samples collected from MW-2, MW-5 and MW-9 through MW-17 meet the SHS RUA medium specific concentrations (MSCs). Samples collected from MW-3, MW-4, MW-6 and MW-7 exceed the SHS RUA MSCs for benzene and 1,2,4 TMB. The sample collected from MW-4 also exceeded the SHS RUA MSCs for ethylbenzene, naphthalene and 1,2,4 TMB. The 1,3,5 TMB concentration MW-4 decreased this quarter and meets the SHS RUA MSC.

A summary of groundwater results is included as Table 2. Contaminant concentrations for compounds, which exceeded the SHS RUA MSCs this quarter, in MW-3, MW-4, MW-6 and MW-7 are provided as Figures 3 through 6. An isoconcentration map for benzene is provided as Figure 7. Laboratory analytical reports for the groundwater samples are attached as Attachment A.

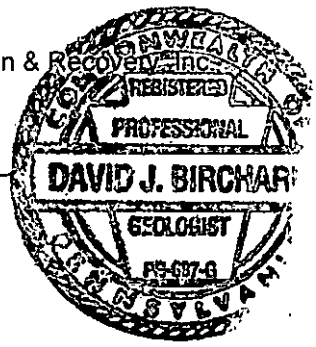
Closing

ER&R will conduct the next quarterly sampling event for groundwater in September 2020. A quarterly project status report will be prepared and submitted.

Please refer comments or questions to me via electronic mail (birch@environmental-remediation.net) or at 814-734-6411.

Sincerely,

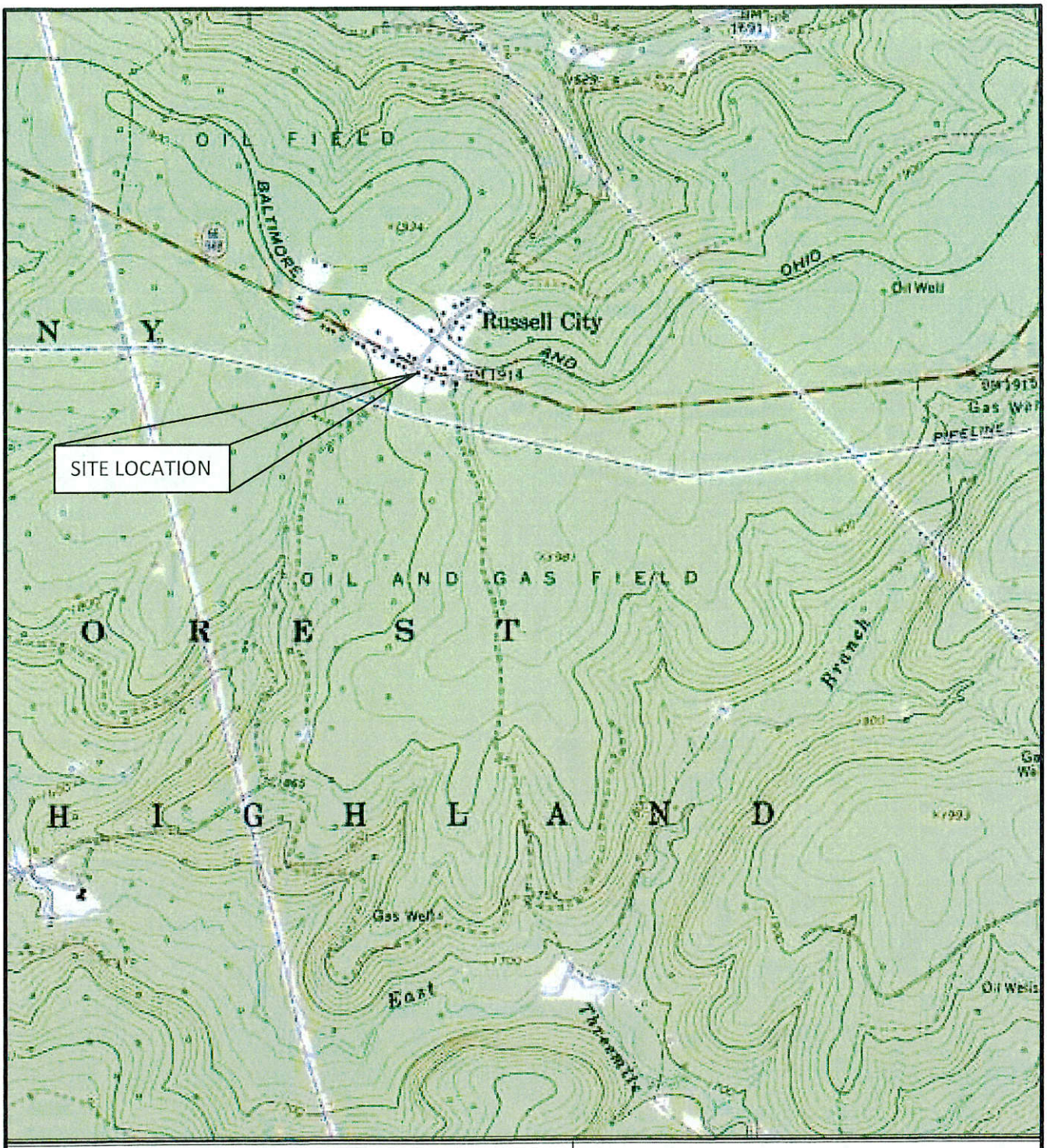
Environmental Remediation & Recovery, Inc.



David J. Birchard, P.G.
Project Manager

Encl. Figures 1 through 7
Tables 1 & 2
Attachment A

Cc: T. Lutz
M. Corwin
J. Ferro



N

1: 24,000 Series Map

0 2,000 ft.

1 inch = 2,000 ft.

SOURCE:
U.S.G.S. RUSSELL CITY
QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES
(TOPOGRAPHIC)
CREATED 1966 / 1983

Figure 1

Geographic Location Map

Russell City Store
1536 State Route 66
Kane, Pennsylvania, 16728

PROJECT: 2014.74	DATE: August 2019	DRAWN BY: KH REVIEWED BY: DB	FILE: SERVER/P/2014.74/topo.doc

Environmental Remediation & Recovery, Inc.

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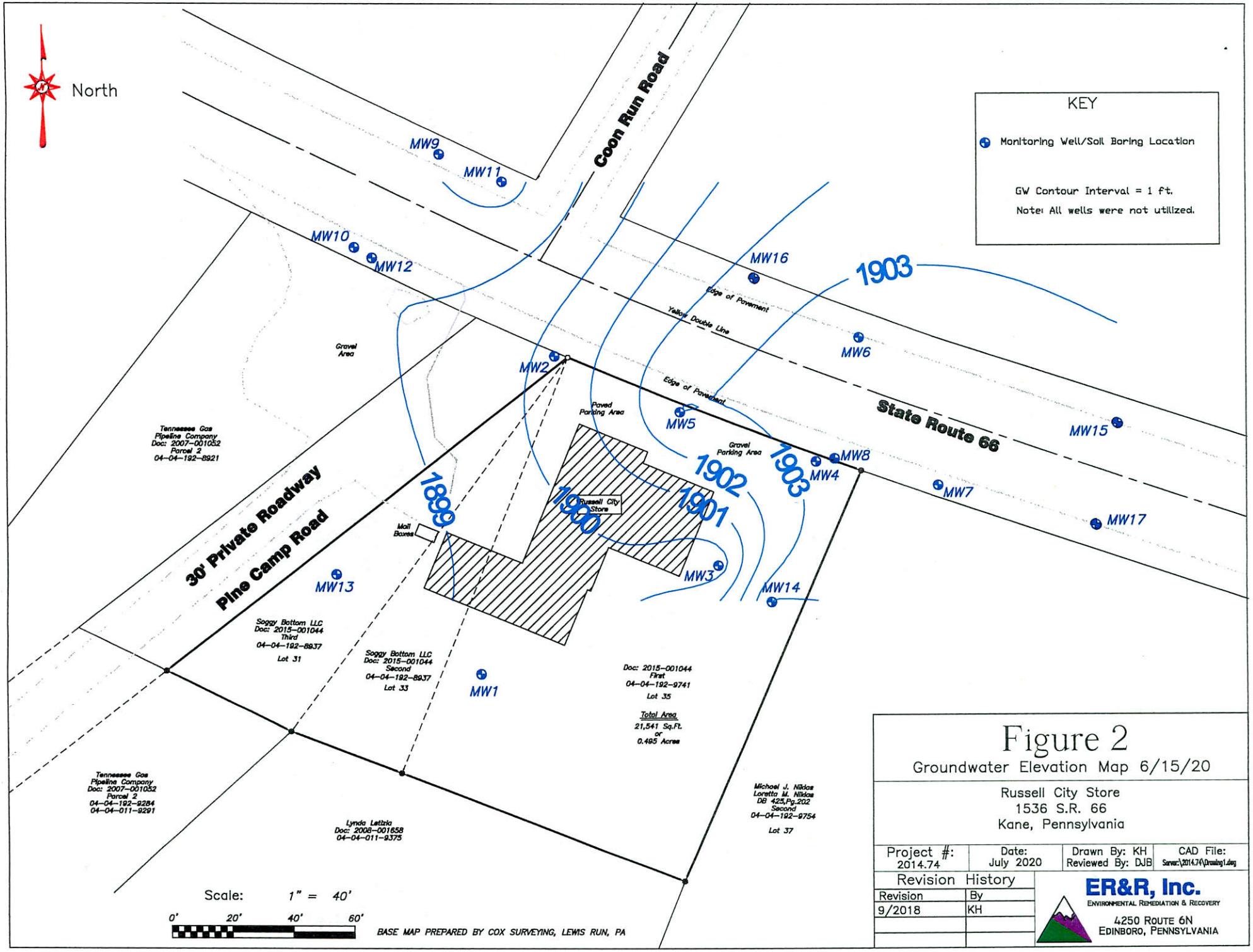

Figure 2

Groundwater Elevation Map 6/15/20

Russell City Store
1536 S.R. 66
Kane, Pennsylvania

Project #:	Date:	Drawn By: KH	CAD File:
2014.74	July 2020	Reviewed By: DJB	Server:\2014.74\Drawing1.dwg

Revision History	
Revision	By
9/2018	KH

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Environmental Remediation & Recovery
4250 Route 6N
Edinboro, Pennsylvania

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Figure 3 - Contaminant Concentrations in MW-3 Presented using the Natural Log
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74

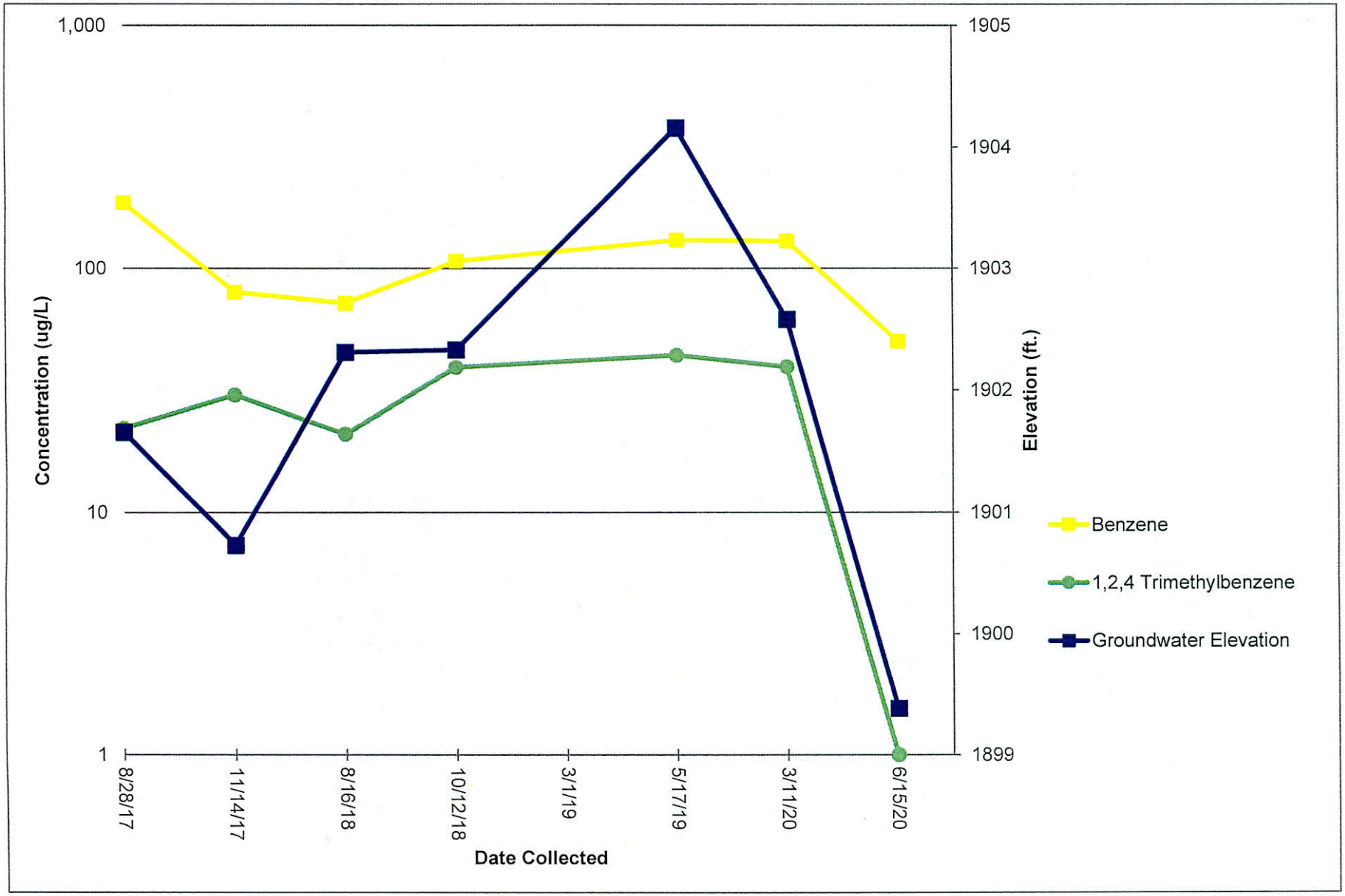

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Figure 4 - Contaminant Concentrations in MW-4 Presented using the Natural Log
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74

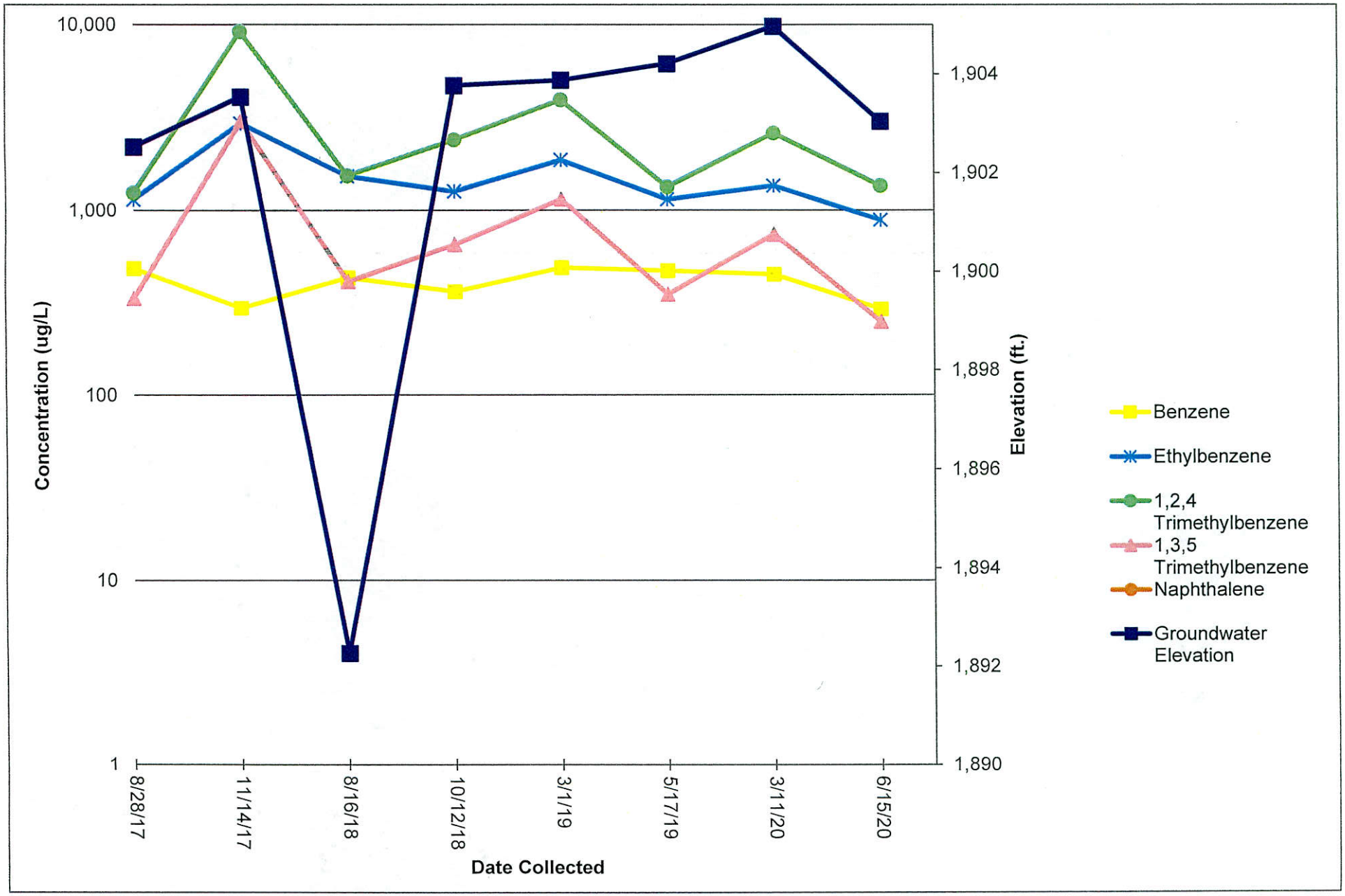

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Figure 5 - Contaminant Concentrations in MW-6 Presented using the Natural Log
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74

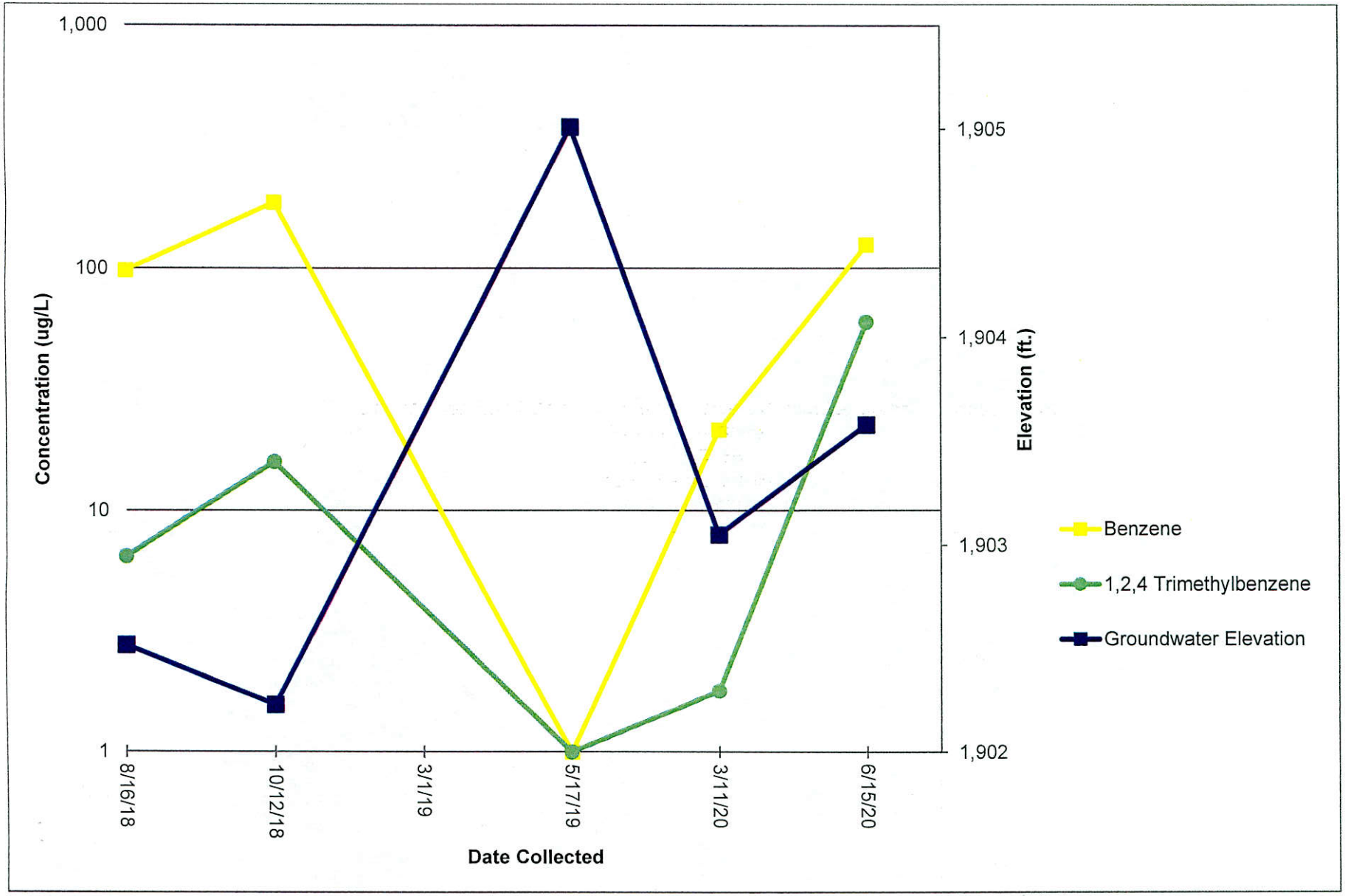

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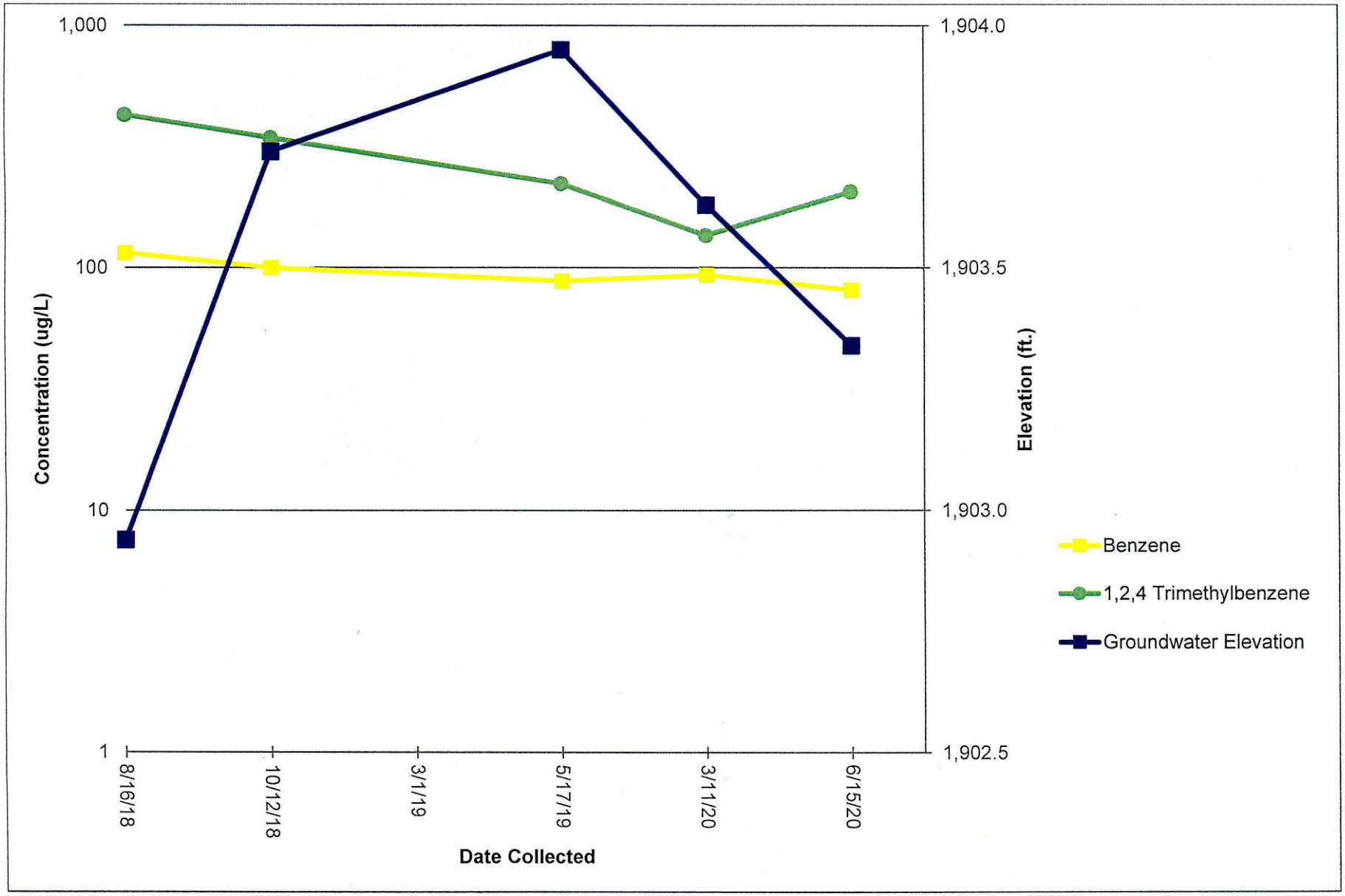
Figure 6 - Contaminant Concentrations in MW-6 Presented using the Natural Log
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74



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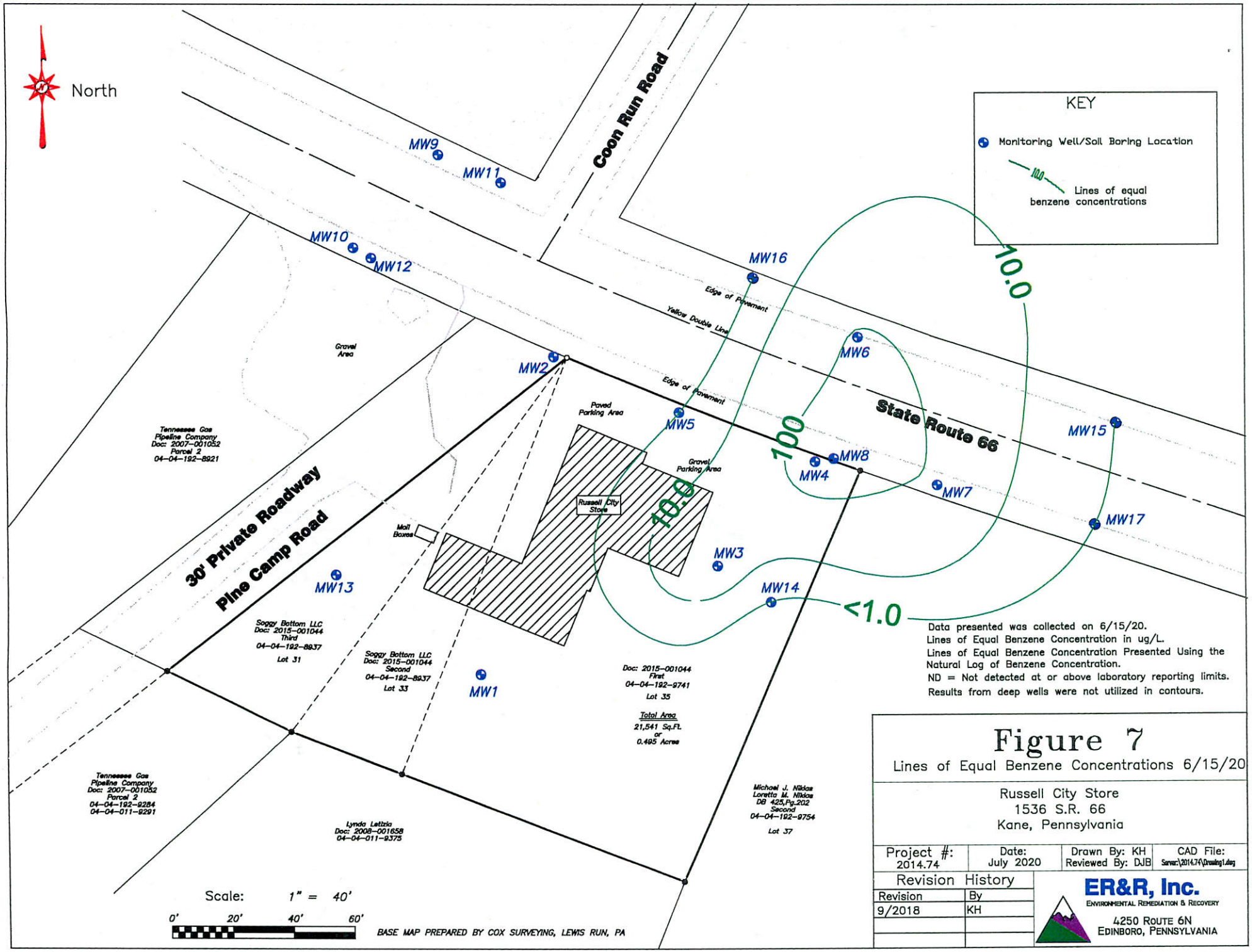

Data presented was collected on 6/15/20.
Lines of Equal Benzene Concentration in ug/L.
Lines of Equal Benzene Concentration Presented Using the Natural Log of Benzene Concentration.
ND = Not detected at or above laboratory reporting limits.
Results from deep wells were not utilized in contours.

Figure 7

Lines of Equal Benzene Concentrations 6/15/20

Russell City Store
1536 S.R. 66
Kane, Pennsylvania

Project #:	Date:	Drawn By: KH	CAD File:
2014.74	July 2020	Reviewed By: DJB	Server:\2014.74\Drawing1.dwg

Revision History

Revision	By
9/2018	KH

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Environmental Remediation & Recovery
4250 Route 6N
Edinboro, Pennsylvania

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Table 1 - Groundwater Elevation Data
Russell City Store
1536 S.R. 66, Kane, Pennsylvania
ER&R Project #2014.74

Well ID #	Casing Elevation	Depth to water (ft) 8/28/17	GW Elevation 8/28/17	Depth to water (ft) 11/14/17	GW Elevation 11/14/17	Depth to water (ft) 7/31/18	GW Elevation 7/31/18	Depth to water (ft) 8/16/18	GW Elevation 8/16/18	Depth to water (ft) 8/29/18	GW Elevation 8/29/18	Depth to water (ft) 10/12/18	GW Elevation 10/12/18	Depth to water (ft) 3/1/19	GW Elevation 3/1/19	Depth to water (ft) 5/17/19	GW Elevation 5/17/19	Depth to water (ft) 3/11/20	GW Elevation 3/11/20	Depth to water (ft) 6/15/20	GW Elevation 6/15/20
MW-1	1910.66	11.43	1899.23	DRY	DRY	11.18	1899.48	10.85	1899.81	10.80	1888.43	10.30	1900.36	NA		10.15	1900.51	9.50	1901.16	Dry	
MW-2	1912.22	15.58	1896.64	15.27	1896.95	20.09	1892.13	20.60	1891.62	21.01	1875.63	19.75	1892.47	15.58	1896.64	14.74	1897.48	14.72	1897.50	15.25	1896.97
MW-3	1913.08	11.42	1901.66	12.35	1900.73	10.32	1902.76	10.77	1902.31	10.08	1891.58	10.75	1902.33	NA		8.92	1904.16	10.50	1902.58	13.69	1899.39
MW-4	1913.80	11.27	1902.53	10.26	1903.54	10.42	1903.38	10.86	1902.94	10.26	1892.27	10.03	1903.77	9.92	1903.88	9.59	1904.21	8.83	1904.97	10.50	1903.30
MW-5	1913.22	12.42	1900.80	11.14	1902.08	11.96	1901.26	11.79	1901.43	11.95	1888.85	11.00	1902.22	8.35	1904.87	7.09	1906.13	7.10	1906.12	10.18	1903.04
MW-6	1913.70					11.00	1902.70	11.18	1902.52	11.43	1902.27	11.47	1902.23	NA		8.69	1905.01	10.65	1903.05	10.12	1903.58
MW-7	1914.46					11.42	1903.04	11.86	1902.60	11.45	1903.01	10.72	1903.74	NA		10.51	1903.95	10.83	1903.63	11.12	1903.34
MW-8	1913.92					33.35	1880.57	Dry		35.76	1878.16	Dry		NA		35.39	1878.53	Dry		Dry	
MW-9	1912.37					30.58	1881.79	30.48	1881.89	30.39	1881.98	27.30	1885.07	28.55	1883.82	30.76	1881.61	32.05	1880.32	31.78	1880.59
MW-10	1911.59					24.30	1887.29	24.55	1887.04	24.11	1887.48	23.44	1888.15	23.32	1888.27	22.95	1888.64	23.75	1887.84	24.16	1887.43
MW-11	1912.58					13.89	1898.69	14.43	1898.15	13.00	1899.58	12.87	1899.71	12.33	1900.25	11.69	1900.89	11.67	1900.91	15.00	1897.58
MW-12	1911.96					14.52	1897.44	15.06	1896.90	13.72	1898.24	12.44	1899.52	12.70	1899.26	11.45	1900.51	11.90	1900.06	12.95	1899.01
MW-13	1910.23					12.19	1898.04	12.55	1897.68	11.78	1898.45	11.23	1899.00	NA		10.79	1899.44	11.22	1899.01	12.10	1898.13
MW-14	1912.62					9.92	1902.70	10.09	1902.53	10.14	1902.48	8.48	1904.14	NA		7.39	1905.23	7.21	1905.41	8.56	1904.06
MW-15	1914.91													11.80	1903.11	11.15	1903.76	11.40	1903.51	11.82	1903.09
MW-16	1913.23													4.82	1908.41	3.83	1909.40	3.45	1909.78	6.15	1907.08
MW-17	1915.60													12.06	1903.54	11.32	1904.28	11.66	1903.94	12.08	1903.52

Notes:

1. All readings are reported in decimal feet.
2. Depth to water measurements collected with solinist water level tape.
3. NA = well not accessible on this date.

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Table 2
Groundwater Analytical Data
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74

Sample Location	Sample Date	Benzene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-butyl ether (MTBE)	Naphthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes (Total)
MW1	8/28/17	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	11/14/17	Dry								
	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	Not	Accessible							
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW2	8/28/17	<1.0	1.2	<1.0	<1.0	<2.0	<1.0	1.4	<1.0	3.3
	11/14/17	1.4	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	8/16/18	1.6	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	1.2	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW3	8/28/17	**188**	13.2	5.0	<1.0	<2.0	44.5	**22.2**	9.1	32.3
	11/14/17	**79.8**	15.0	16.4	<1.0	6.5	2.0	**30.2**	30.4	6.2
	8/16/18	**71.8**	7.9	5.1	<1.0	<10	<1.0	**21.0**	6.0	<3.0
	10/12/18	**107**	2.9	12.2	<1.0	3.1	<1.0	**39.2**	10.3	<3.0
	3/1/19	Not	Accessible							
	5/17/19	**131**	2.9	15.7	<1.0	3.2	<1.0	**43.9**	8.3	<3.0
	3/11/20	**130**	3.4	14.9	<1.0	3.2	<1.0	**39.3**	12.3	<3.0
	6/15/20	**50**	1.7	3.7	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW4	8/28/17	**484**	**1,140**	95.6	<1.0	**181**	214	**1,240**	334	2,010
	11/14/17	**296**	**2,940**	114	<1.0	**151**	202	**9,210**	**3,020**	6,230
	8/16/18	**432**	**1,520**	98.7	<1.0	**189**	274	**1,530**	411	2,860
	10/12/18	**364**	**1,260**	130	<1.0	**312**	228	**2,390**	**651**	2,640
	3/1/19	**489**	**1,860**	116	<1.0	**203**	147	**3,940**	**1,150**	2,950
	5/17/19	**470**	**1,140**	103	<1.0	**183**	232	**1,330**	350	1,590
	3/11/20	**448**	**1,350**	119	<1.0	**175**	87.6	**2,590**	**742**	1,920
	6/15/20	**292**	**881**	96	<1.0	**153**	47.8	**1,350**	249	728
MW5	8/28/17	2.9	2.4	<1.0	<1.0	<2.0	<1.0	4.6	2.4	5.6
	11/14/17	**18.5**	33.5	8.0	<1.0	5.5	3.3	**171**	74.1	84.9
	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	2.4	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW6	8/16/18	**98.5**	20.3	2.4	<1.0	<1.0	1.5	6.5	4.3	10.1
	10/12/18	**187**	35.5	5.7	<1.0	2.6	1.0	**15.9**	13.1	16.9
	3/1/19	Not	Accessible							
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	**21.5**	1.9	1.1	<1.0	<2.0	<1.0	1.8	<1.0	<3.0
	6/15/20	**125**	12.3	21.0	<1.0	4.6	1.1	**60**	15.5	5.2
MW7	8/16/18	**115**	381	55.9	<1.0	**101**	79.5	**426**	177	310
	10/12/18	**100**	292	51.7	<1.0	82	61.4	**343**	143	192
	3/1/19	Not	Accessible							
	5/17/19	**88.0**	235	46.4	<1.0	66.3	37.7	**223**	90.2	124
	3/11/20	**93.1**	182	36.6	<1.0	35.5	27.8	**136**	37.1	74.2
	6/15/20	**80.8**	192	49.6	<1.0	51.1	31.9	**206**	67.6	104
MW8	8/29/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	Not	Accessible							
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	Not	Accessible							
	6/15/20	Dry								

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Table 2
Groundwater Analytical Data
Russell City Store
1536 S.R. 66
Kane, Pennsylvania
ER&R Project #2014.74

Sample Location	Sample Date	Benzene	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-butyl ether (MTBE)	Naphthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes (Total)
MW9	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW10	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW11	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW12	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW13	8/16/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	10/12/18	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/1/19	Not	Accessible							
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW14	8/16/18	**18.7**	2.6	<1.0	<1.0	<2.0	<1.0	<1.0	5.2	<3.0
	10/12/18	**7.3**	3.3	6.1	<1.0	<2.0	<1.0	1.5	4.1	<3.0
	3/1/19	Not	Accessible							
	5/17/19	1.2	1.8	3.6	<1.0	<2.0	<1.0	<1.0	1.7	<3.0
	3/11/20	1.3	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	3.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	3/1/19	<1.0	<1.0	4.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-16	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-17	3/1/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	1.1	1.4	<3.0
	5/17/19	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	3/11/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
	6/15/20	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
PADEP Residential Used Aquifer SHS MSCs (µg/L)		**5**	**700**	**840**	**20**	**100**	**1,000**	**15**	**420**	**10,000**
Groundwater Screening Values Residential SV gw (µg/L)		**23**	**700**	**1,900**	**6,300**	**100**	**34,000**	**59**	**420**	**10,000**

Notes:

1. Laboratory analysis completed by Pace Analytical Services (Greensburg, PA).
2. Samples were analyzed for PADEP short list of unleaded gasoline parameters.
3. Volatile organic compounds analyzed by EPA Method 8260B.
4. Results reported in micrograms per liter (µg/L).
5. Less than values (<) indicate reported concentrations are below laboratory reporting limits.
6. Results are compared to the PADEP Statewide health standard medium specific concentrations (SHS MSCs) for a residential used aquifer.
7. The groundwater Statewide health standard (SHS) vapor intrusion screening values (SVgw) = Table 1 of the PADEP Vapor IntrusionGuidance (2017). Shaded values do not meet these screening values.

8/5/2020 2:45:11 PM

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 30, 2020

Mr. Dave Birchard
Environmental Remediation & Recovery, Inc.
4250 Route 6N
Edinboro, PA 16412

RE: Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Dear Mr. Birchard:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Greensburg

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

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Karann Holman, Environmental Remediation & Recovery, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30368452001	MW2	Water	06/15/20 11:30	06/17/20 09:30
30368452002	MW3	Water	06/15/20 12:12	06/17/20 09:30
30368452003	MW4	Water	06/15/20 13:00	06/17/20 09:30
30368452004	MW5	Water	06/15/20 11:40	06/17/20 09:30
30368452005	MW6	Water	06/15/20 12:08	06/17/20 09:30
30368452006	MW7	Water	06/15/20 12:55	06/17/20 09:30
30368452007	MW9	Water	06/15/20 11:10	06/17/20 09:30
30368452008	MW10	Water	06/15/20 10:55	06/17/20 09:30
30368452009	MW11	Water	06/15/20 11:25	06/17/20 09:30
30368452010	MW12	Water	06/15/20 11:15	06/17/20 09:30
30368452011	MW13	Water	06/15/20 11:00	06/17/20 09:30
30368452012	MW14	Water	06/15/20 12:25	06/17/20 09:30
30368452013	MW15	Water	06/15/20 12:20	06/17/20 09:30
30368452014	MW16	Water	06/15/20 11:45	06/17/20 09:30
30368452015	MW17	Water	06/15/20 11:55	06/17/20 09:30
30368452016	Trip Blank	Water	06/15/20 00:01	06/17/20 09:30

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SAMPLE ANALYTE COUNT

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30368452001	MW2	EPA 8260B	JAS	13	PASI-PA
30368452002	MW3	EPA 8260B	JAS	13	PASI-PA
30368452003	MW4	EPA 8260B	JAS	13	PASI-PA
30368452004	MW5	EPA 8260B	JAS	13	PASI-PA
30368452005	MW6	EPA 8260B	JAS	13	PASI-PA
30368452006	MW7	EPA 8260B	JAS	13	PASI-PA
30368452007	MW9	EPA 8260B	JAS	13	PASI-PA
30368452008	MW10	EPA 8260B	JAS	13	PASI-PA
30368452009	MW11	EPA 8260B	JAS	13	PASI-PA
30368452010	MW12	EPA 8260B	JAS	13	PASI-PA
30368452011	MW13	EPA 8260B	JAS	13	PASI-PA
30368452012	MW14	EPA 8260B	JAS	13	PASI-PA
30368452013	MW15	EPA 8260B	JAS	13	PASI-PA
30368452014	MW16	EPA 8260B	JAS	13	PASI-PA
30368452015	MW17	EPA 8260B	JAS	13	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Method: EPA 8260B
Description: 8260B MSV
Client: Environmental Remediation and Recovery, Inc.
Date: June 30, 2020

General Information:
15 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (Including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW2 **Lab ID: 30368452001** Collected: 06/15/20 11:30 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 00:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 00:49	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 00:49	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 00:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 00:49	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 00:49	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 00:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 00:49	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 00:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%.	70-130		1		06/26/20 00:49	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130		1		06/26/20 00:49	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1		06/26/20 00:49	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1		06/26/20 00:49	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW3 **Lab ID: 30368452002** Collected: 06/15/20 12:12 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	**50.1**	ug/L	1.0	0.34	1		06/26/20 01:17	71-43-2	
Ethylbenzene	**1.7**	ug/L	1.0	0.40	1		06/26/20 01:17	100-41-4	
Isopropylbenzene (Cumene)	**3.7**	ug/L	1.0	0.47	1		06/26/20 01:17	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 01:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 01:17	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 01:17	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 01:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 01:17	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 01:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%.	70-130		1		06/26/20 01:17	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1		06/26/20 01:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1		06/26/20 01:17	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130		1		06/26/20 01:17	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW4 **Lab ID: 30368452003** Collected: 06/15/20 13:00 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	**292**	ug/L	1.0	0.34	1		06/26/20 08:06	71-43-2	
Ethylbenzene	**881**	ug/L	20.0	8.0	20		06/26/20 08:34	100-41-4	
Isopropylbenzene (Cumene)	**95.9**	ug/L	1.0	0.47	1		06/26/20 08:06	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 08:06	1634-04-4	
Naphthalene	**153**	ug/L	2.0	0.82	1		06/26/20 08:06	91-20-3	
Toluene	**47.8**	ug/L	1.0	0.32	1		06/26/20 08:06	108-88-3	
1,2,4-Trimethylbenzene	**1350**	ug/L	20.0	12.6	20		06/26/20 08:34	95-63-6	
1,3,5-Trimethylbenzene	**249**	ug/L	1.0	0.45	1		06/26/20 08:06	108-67-8	
Xylene (Total)	**728**	ug/L	3.0	1.4	1		06/26/20 08:06	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%.	70-130		1		06/26/20 08:06	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1		06/26/20 08:06	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	70-130		1		06/26/20 08:06	17060-07-0	
Dibromofluoromethane (S)	86	%.	70-130		1		06/26/20 08:06	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW5 Lab ID: **30368452004** Collected: 06/15/20 11:40 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 02:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 02:27	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 02:27	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 02:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 02:27	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 02:27	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 02:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 02:27	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 02:27	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1		06/26/20 02:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1		06/26/20 02:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	70-130		1		06/26/20 02:27	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130		1		06/26/20 02:27	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW6 **Lab ID: 30368452005** Collected: 06/15/20 12:08 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	**125**	ug/L	1.0	0.34	1		06/26/20 06:50	71-43-2	
Ethylbenzene	**12.3**	ug/L	1.0	0.40	1		06/26/20 06:50	100-41-4	
Isopropylbenzene (Cumene)	**21.0**	ug/L	1.0	0.47	1		06/26/20 06:50	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 06:50	1634-04-4	
Naphthalene	**4.6**	ug/L	2.0	0.82	1		06/26/20 06:50	91-20-3	
Toluene	**1.1**	ug/L	1.0	0.32	1		06/26/20 06:50	108-88-3	
1,2,4-Trimethylbenzene	**60.3**	ug/L	1.0	0.63	1		06/26/20 06:50	95-63-6	
1,3,5-Trimethylbenzene	**15.5**	ug/L	1.0	0.45	1		06/26/20 06:50	108-67-8	
Xylene (Total)	**5.2**	ug/L	3.0	1.4	1		06/26/20 06:50	1330-20-7	
Surrogates									
Toluene-d8 (S)	108	%.	70-130		1		06/26/20 06:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1		06/26/20 06:50	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	70-130		1		06/26/20 06:50	17060-07-0	
Dibromofluoromethane (S)	88	%.	70-130		1		06/26/20 06:50	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW7 **Lab ID: 30368452006** Collected: 06/15/20 12:55 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	**80.8**	ug/L	1.0	0.34	1		06/26/20 07:30	71-43-2	
Ethylbenzene	**192**	ug/L	1.0	0.40	1		06/26/20 07:30	100-41-4	
Isopropylbenzene (Cumene)	**49.6**	ug/L	1.0	0.47	1		06/26/20 07:30	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 07:30	1634-04-4	
Naphthalene	**51.1**	ug/L	2.0	0.82	1		06/26/20 07:30	91-20-3	
Toluene	**31.9**	ug/L	1.0	0.32	1		06/26/20 07:30	108-88-3	
1,2,4-Trimethylbenzene	**206**	ug/L	1.0	0.63	1		06/26/20 07:30	95-63-6	
1,3,5-Trimethylbenzene	**67.6**	ug/L	1.0	0.45	1		06/26/20 07:30	108-67-8	
Xylene (Total)	**104**	ug/L	3.0	1.4	1		06/26/20 07:30	1330-20-7	
Surrogates									
Toluene-d8 (S)	122	%.	70-130		1		06/26/20 07:30	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1		06/26/20 07:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130		1		06/26/20 07:30	17060-07-0	
Dibromofluoromethane (S)	83	%.	70-130		1		06/26/20 07:30	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW9 **Lab ID: 30368452007** Collected: 06/15/20 11:10 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 01:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 01:45	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 01:45	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 01:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 01:45	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 01:45	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 01:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 01:45	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 01:45	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1		06/26/20 01:45	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130		1		06/26/20 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1		06/26/20 01:45	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130		1		06/26/20 01:45	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW10 **Lab ID: 30368452008** Collected: 06/15/20 10:55 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 02:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 02:13	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 02:13	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 02:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 02:13	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 02:13	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 02:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 02:13	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 02:13	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%.	70-130		1		06/26/20 02:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1		06/26/20 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1		06/26/20 02:13	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1		06/26/20 02:13	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW11 **Lab ID: 30368452009** Collected: 06/15/20 11:25 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 02:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 02:41	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 02:41	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 02:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 02:41	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 02:41	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 02:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 02:41	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 02:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%.	70-130		1		06/26/20 02:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130		1		06/26/20 02:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1		06/26/20 02:41	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130		1		06/26/20 02:41	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW12 **Lab ID: 30368452010** Collected: 06/15/20 11:15 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 03:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 03:08	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 03:08	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 03:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 03:08	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 03:08	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 03:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 03:08	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 03:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1		06/26/20 03:08	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130		1		06/26/20 03:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1		06/26/20 03:08	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1		06/26/20 03:08	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW13 **Lab ID: 30368452011** Collected: 06/15/20 11:00 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 03:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 03:36	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 03:36	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 03:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 03:36	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 03:36	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 03:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 03:36	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 03:36	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%.	70-130		1		06/26/20 03:36	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1		06/26/20 03:36	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1		06/26/20 03:36	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1		06/26/20 03:36	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW14 Lab ID: **30368452012** Collected: 06/15/20 12:25 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 06:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 06:23	100-41-4	
Isopropylbenzene (Cumene)	3.0	ug/L	1.0	0.47	1		06/26/20 06:23	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 06:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 06:23	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 06:23	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 06:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 06:23	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 06:23	1330-20-7	
Surrogates									
Toluene-d8 (S)	109	%.	70-130		1		06/26/20 06:23	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1		06/26/20 06:23	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	70-130		1		06/26/20 06:23	17060-07-0	
Dibromofluoromethane (S)	90	%.	70-130		1		06/26/20 06:23	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW15 **Lab ID: 30368452013** Collected: 06/15/20 12:20 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 04:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 04:04	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 04:04	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 04:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 04:04	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 04:04	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 04:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 04:04	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 04:04	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%.	70-130		1		06/26/20 04:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1		06/26/20 04:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1		06/26/20 04:04	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1		06/26/20 04:04	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW16 **Lab ID: 30368452014** Collected: 06/15/20 11:45 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 04:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 04:32	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 04:32	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 04:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 04:32	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 04:32	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 04:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 04:32	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 04:32	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1		06/26/20 04:32	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130		1		06/26/20 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		06/26/20 04:32	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1		06/26/20 04:32	1868-53-7	

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ANALYTICAL RESULTS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Sample: MW17 **Lab ID: 30368452015** Collected: 06/15/20 11:55 Received: 06/17/20 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	ND	ug/L	1.0	0.34	1		06/26/20 04:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.40	1		06/26/20 04:59	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		06/26/20 04:59	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		06/26/20 04:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		06/26/20 04:59	91-20-3	
Toluene	ND	ug/L	1.0	0.32	1		06/26/20 04:59	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		06/26/20 04:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		06/26/20 04:59	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1.4	1		06/26/20 04:59	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1		06/26/20 04:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1		06/26/20 04:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	70-130		1		06/26/20 04:59	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1		06/26/20 04:59	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

QC Batch: 402595
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV UST-WATER
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30368452004

METHOD BLANK: 1948600 Matrix: Water
Associated Lab Samples: 30368452004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.63	06/25/20 23:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.45	06/25/20 23:11	
Benzene	ug/L	ND	1.0	0.34	06/25/20 23:11	
Ethylbenzene	ug/L	ND	1.0	0.40	06/25/20 23:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.47	06/25/20 23:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.25	06/25/20 23:11	
Naphthalene	ug/L	ND	2.0	0.82	06/25/20 23:11	
Toluene	ug/L	ND	1.0	0.32	06/25/20 23:11	
Xylene (Total)	ug/L	ND	3.0	1.4	06/25/20 23:11	
1,2-Dichloroethane-d4 (S)	%.	98	70-130		06/25/20 23:11	
4-Bromofluorobenzene (S)	%.	102	70-130		06/25/20 23:11	
Dibromofluoromethane (S)	%.	92	70-130		06/25/20 23:11	
Toluene-d8 (S)	%.	104	70-130		06/25/20 23:11	

LABORATORY CONTROL SAMPLE: 1948601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	22.2	111	70-130	
1,3,5-Trimethylbenzene	ug/L	20	22.0	110	70-130	
Benzene	ug/L	20	17.8	89	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
Isopropylbenzene (Cumene)	ug/L	20	24.5	122	70-130	
Methyl-tert-butyl ether	ug/L	20	17.2	86	70-130	
Naphthalene	ug/L	20	21.0	105	55-160	
Toluene	ug/L	20	20.6	103	70-130	
Xylene (Total)	ug/L	60	62.8	105	70-130	
1,2-Dichloroethane-d4 (S)	%.			96	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			96	70-130	
Toluene-d8 (S)	%.			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949171 1949172

Parameter	Units	30368590001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.7	24.4	119	122	52-151	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.6	24.2	118	121	53-142	3	30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949171 1949172

Parameter	Units	30368590001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	18.3	19.8	91	99	50-149	8	30	
Ethylbenzene	ug/L	ND	20	20	22.2	22.6	111	113	63-135	2	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	26.6	27.1	133	135	50-167	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.1	17.5	76	87	53-123	14	30	
Naphthalene	ug/L	ND	20	20	17.8	20.7	89	104	30-157	15	30	
Toluene	ug/L	ND	20	20	22.4	23.8	112	119	59-139	6	30	
Xylene (Total)	ug/L	ND	60	60	67.5	70.4	113	117	63-135	4	30	
1,2-Dichloroethane-d4 (S)	%.						92	101	70-130			
4-Bromofluorobenzene (S)	%.						100	101	70-130			
Dibromofluoromethane (S)	%.						91	96	70-130			
Toluene-d8 (S)	%.						110	109	70-130			

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QUALITY CONTROL DATA

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

QC Batch: 402599 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30368452001, 30368452002, 30368452003, 30368452005, 30368452006, 30368452007, 30368452008, 30368452009, 30368452010, 30368452011, 30368452012, 30368452013, 30368452014, 30368452015

METHOD BLANK: 1948608 Matrix: Water
Associated Lab Samples: 30368452001, 30368452002, 30368452003, 30368452005, 30368452006, 30368452007, 30368452008, 30368452009, 30368452010, 30368452011, 30368452012, 30368452013, 30368452014, 30368452015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.63	06/25/20 23:25	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.45	06/25/20 23:25	
Benzene	ug/L	ND	1.0	0.34	06/25/20 23:25	
Ethylbenzene	ug/L	ND	1.0	0.40	06/25/20 23:25	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.47	06/25/20 23:25	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.25	06/25/20 23:25	
Naphthalene	ug/L	ND	2.0	0.82	06/25/20 23:25	
Toluene	ug/L	ND	1.0	0.32	06/25/20 23:25	
Xylene (Total)	ug/L	ND	3.0	1.4	06/25/20 23:25	
1,2-Dichloroethane-d4 (S)	%.	103	70-130		06/25/20 23:25	
4-Bromofluorobenzene (S)	%.	95	70-130		06/25/20 23:25	
Dibromofluoromethane (S)	%.	99	70-130		06/25/20 23:25	
Toluene-d8 (S)	%.	99	70-130		06/25/20 23:25	

LABORATORY CONTROL SAMPLE: 1948609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.9	110	70-130	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	70-130	
Benzene	ug/L	20	19.1	95	70-130	
Ethylbenzene	ug/L	20	22.0	110	70-130	
Isopropylbenzene (Cumene)	ug/L	20	23.3	117	70-130	
Methyl-tert-butyl ether	ug/L	20	17.7	89	70-130	
Naphthalene	ug/L	20	21.1	105	55-160	
Toluene	ug/L	20	21.1	105	70-130	
Xylene (Total)	ug/L	60	65.2	109	70-130	
1,2-Dichloroethane-d4 (S)	%.			98	70-130	
4-Bromofluorobenzene (S)	%.			96	70-130	
Dibromofluoromethane (S)	%.			99	70-130	
Toluene-d8 (S)	%.			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949173 1949174

Parameter	Units	30368452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.0	22.5	115	112	52-151	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949173 1949174

Parameter	Units	30368452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.1	22.1	110	110	53-142	0	30	
Benzene	ug/L	ND	20	20	18.6	19.6	93	98	50-149	5	30	
Ethylbenzene	ug/L	ND	20	20	22.3	22.3	112	112	63-135	0	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.9	24.0	120	120	50-167	0	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.6	16.1	78	81	53-123	4	30	
Naphthalene	ug/L	ND	20	20	21.6	20.5	108	103	30-157	5	30	
Toluene	ug/L	ND	20	20	21.5	22.1	107	111	59-139	3	30	
Xylene (Total)	ug/L	ND	60	60	65.8	67.7	110	113	63-135	3	30	
1,2-Dichloroethane-d4 (S)	%.						95	103	70-130			
4-Bromofluorobenzene (S)	%.						96	93	70-130			
Dibromofluoromethane (S)	%.						94	92	70-130			
Toluene-d8 (S)	%.						108	109	70-130			

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALIFIERS

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2014.74 Russell City Store
Pace Project No.: 30368452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30368452001	MW2	EPA 8260B	402599		
30368452002	MW3	EPA 8260B	402599		
30368452003	MW4	EPA 8260B	402599		
30368452004	MW5	EPA 8260B	402595		
30368452005	MW6	EPA 8260B	402599		
30368452006	MW7	EPA 8260B	402599		
30368452007	MW9	EPA 8260B	402599		
30368452008	MW10	EPA 8260B	402599		
30368452009	MW11	EPA 8260B	402599		
30368452010	MW12	EPA 8260B	402599		
30368452011	MW13	EPA 8260B	402599		
30368452012	MW14	EPA 8260B	402599		
30368452013	MW15	EPA 8260B	402599		
30368452014	MW16	EPA 8260B	402599		
30368452015	MW17	EPA 8260B	402599		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ON

WO# : 30368452

30368452

er or

Company: ER+R	Billing Information: Same
Address: 4250 Route 6N, Edinboro PA 16412	
Report To: K. Holman	Email To: K. Holman
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 2014.74 Russell City Store	State: PA / County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 8147346411 Email:	Site/Facility ID #: 2014.74 Russell City Store
Collected By (print): K. Holman	Purchase Order #: 2014.74 Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [X] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: _____

Container Pr: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: PA Unleaded gasoline	Lab Profile/Line:
MW2	GW	G	6/15/20	11:30				3		001
MW3				12:12						002
MW4				1:00						003
MW5				11:40						004
MW6				12:08						005
MW7				12:55						006
MW9				11:10						007
MW10				10:55						008
MW11				11:25						009
MW12				11:15						010

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	(N)	NA
Custody Signatures Present	(Y)	N	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples Received on Ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NP)
Samples in Holding Time	(Y)	N	NA
Residual Chlorine Present	Y	N	(NA)
Cl Strips: _____			
Sample pH Acceptable	Y	N	(NA)
pH Strips: _____			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
Fed EX

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice & bubblewrap 770719029304

Lab Tracking #: 2529754

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 11
Cooler 1 Temp Upon Receipt: 6.1 oC
Cooler 1 Therm Corr. Factor: -0.3 oC
Cooler 1 Corrected Temp: 5.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ER+R	6/16/20 3:00	Nicole Rennie	6/17/2020 930
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / (NO)

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Page 2

30368452

ALL SHADED AREAS are for LAB USE ONLY

RECEIVED AUG 05 2020 ICF - PAUSTIF

Company: ER+R	Billing Information:
Address: 4250 Route 6 N Edinboro PA 16412	
Report To:	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number:	State: PA / County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: / Email:	Site/Facility ID #: Russell City 2014.74 / Compliance Monitoring? [ ] Yes [X] No
Collected By (print):	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses: PA Unleaded gasoline

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Lab Sample # / Comments
MW13	GW	G	6/15/20	11:00				3	011
MW14	"	"	"	12:25				"	012
MW15	"	"	"	12:20				"	013
MW16	"	"	"	11:45				"	014
MW17	"	"	"	11:55				"	015
Trip Blank *									Do not analyze * 016

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2453797

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature) ER+R	Date/Time: 6/16/20 3:00	Received by/Company: (Signature) Nicole Rumm	Date/Time: 6/17/20 930
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

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