



611 S. Irvine Avenue, Sharon, PA 16146
phone 724.347.2101 fax 724.347.2139

REMEDIAL ACTION PROGRESS REPORT SECOND QUARTER 2018

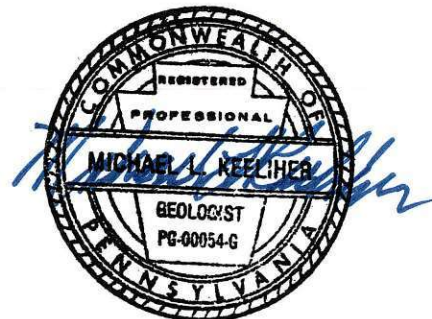
VALLEY VILLAGE
10243 State Route 85
Kittanning, PA 16201
Facility I.D. No. 03-06500
USTIF No. 2014-0036(S)

Prepared for

Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222-4745

Submitted by:

Sara Giordano and Paul Rogers



Second Quarter 2018 Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

PADEP Contact: Julia Gorman

USTIF ID No. 2014-0036(S)

IGI Contacts: Sara Giordano and Paul Rogers

INTRODUCTION

Insite Group, Inc. (IGI), on behalf of Mr. Joseph Buffone of JBRL Development Corp., provides this RAPR summarizing activities and findings for the referenced period at the Valley Village facility in Cowanshannock Township, Armstrong County, Pennsylvania (property). This RAPR includes a summary of site activities completed during the period, data interpretation, proposed future actions, a historical summary, and a description of site geology. A topographic map is provided as **Figure 1**, and a site map is provided as **Figure 2**.

A release of unleaded gasoline was discovered and reported in March 2014 during an upgrade of the UST system. Extensive impacts to soil and groundwater were identified during site characterization. Excavation of impacted soil was completed in 2016, and attainment of the SHS-RUA was demonstrated for soil at that time.

Remedial Action Plan Addendum No. 2 was submitted to the PADEP on August 14, 2017 and was approved on August 24, 2017. The report provided a plan to address adsorbed-phase contaminant mass in the UST cavity and dissolved-phase contaminant mass in downgradient areas, including the sanitary sewer line trench. The proposed treatment included the following:

- Ivey-sol surfactant washing of the UST cavity.
- Ivey-sol surfactant washing of the sewer line trench backfill in the area surrounding SL-3 and SL-4.
- Carbon Based Injectate (CBI) treatment to address the remaining dissolved-phase plume downgradient of the UST cavity. The final CBI treatment design will be completed following the conclusion of surfactant treatment and a period of monitoring and data evaluation.

The first cycle of surfactant washing of the UST cavity was completed in September through November 2017. In accordance with the RAP Addendum No. 2, IGI evaluated the data following the first surfactant treatment cycle. A summary of the results was provided in the 2017 4th quarter RAPR.

In the 4th quarter 2017, USTIF requested that no additional surfactant washing be completed until USTIF completes a separate review of the data. USTIF's review is ongoing.

CONTAMINANTS OF CONCERN

The contaminant of concern at the site is unleaded gasoline, and the chemicals of concern are defined by PADEP's Post-2008 short list of parameters for unleaded gasoline (benzene, ethylbenzene, cumene, MTBE, naphthalene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes).

<u>Media</u>	<u>Cleanup Standard</u>	<u>Parameters Exceeding the Cleanup Standard</u>
Soil	SHS-RUA	Attainment of the SHS-RUA is demonstrated for soil.
Groundwater	SHS-RUA	Benzene, ethylbenzene, MTBE, naphthalene, 1,2,4-trimethylbenzene.

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The site is defined by the extent of the monitoring well network. POC wells are shown in bold font and include **MW-3R**, **MW-4R**, **MW-8**, **MW-13** and **MW-14**.

REGULATORY STATUS

Attainment of the SHS-RUA has been demonstrated for soil. Remediation to address the remaining dissolved-phase plume (including the adsorbed-phase contaminant mass below the water table in the UST cavity) is underway.

SITE ACTIVITIES COMPLETED DURING PERIOD

Quarterly Groundwater Monitoring

Quarterly groundwater sampling was completed on May 8 and 9, 2018. Depth-to-water measurements were recorded for all accessible monitoring wells, extraction wells, piezometers, and sewer line trench wells. Depth-to-water measurements and calculated groundwater elevations are summarized in **Table 1.0**. Groundwater elevation data were used to prepare a groundwater contour map, provided as **Figure 3**.

Groundwater samples were collected from ten monitoring wells (MW-1R, **MW-3R**, **MW-4R**, **MW-8**, MW-9, MW-10, MW-11, **MW-13**, **MW-14**, and MW-15), two extraction wells (EW-1R and EW-2), and two sewer line trench wells (SL-3 and SL-4). Wells were sampled using a low flow purging and sampling approach. The samples were submitted for laboratory analysis of unleaded gasoline parameters by method 5030B/8260B. For quality assurance purposes, a duplicate sample and a trip blank were also submitted for laboratory analysis.

The groundwater analytical results are summarized in **Table 2.0**. A summary of contaminant concentrations exceeding their respective SHS-RUA values is provided below:

<u>Well</u>	<u>Benzene</u>	<u>1,2,4-Trimethylbenzene</u>	<u>Ethylbenzene</u>	<u>Naphthalene</u>	<u>MTBE</u>
EW-1R	249	1,490	1,520	116	
MW-3R	394	857	1,080		
MW-8	2,550				42.8
SL-3	46.8				
MW-15	23.9				
MW-13					66.7

Concentrations of unleaded gasoline parameters do not exceed their respective SHS-RUA values in monitoring wells MW-1R, **MW-4R**, MW-9, MW-10, MW-11, or **MW-14**. Monitoring wells MW-2, MW-5, MW-6, MW-7, and MW-12, previously exhibited eight or more consecutive

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quarters of results below SHS-RUA values and sampling was discontinued for these wells after Fourth Quarter 2016.

Historical groundwater analytical results are summarized in **Table 3.0**. Laboratory analytical reports are provided as **Attachment A**. Dissolved-phase contaminant isoconcentration maps are provided as **Figures 4** through **8**.

Field measurements of DO, ORP, and pH were recorded for each well sampled. The data are summarized in **Table 4.0**.

Current UST System

In May 2018, IGI was made aware of repeated incidences of water in the premium unleaded gasoline UST (Tank 003). The current owner of the facility, Surya Shakti, Inc., contracted Reitz & Sons to remove water from Tank 003 on three separate occasions in 2017 and 2018. Approximately 400 gallons of water was removed from the tank in May 2017. In February 2018, an additional 100 gallons of water was removed from the tank, and a new cap was installed. In March 2018 an additional 50 gallons of water was removed from the tank, and a broken drop tube was replaced.

In May 2018, the PADEP issued a Notice of Violation to Surya Shakti, Inc. due to the poor condition of the concrete around the tank top manholes. Because the concrete has deteriorated, the metal lid is resting directly on the fill cap, which now bears the weight of traffic passing over the lid.

Data Evaluation

Contaminant concentration trend graphs for source area and distal wells are provided as **Figures 9** and **10**, respectively. Overall, contaminant concentrations have decreased throughout much of the site. The most notable reductions have occurred in wells within or near the 2016 area of excavation (EW-2, MW-1R, **MW-4R**) and in downgradient well MW-10. Overall, the data continue to suggest that surfactant washing of the UST cavity reduced the adsorbed-phase contaminant mass in the UST cavity and had a beneficial effect on the groundwater plume.

During surfactant washing of the UST cavity, the benzene concentration in **MW-8** decreased to <1.0 ug/L. Since the conclusion of surfactant washing, the benzene concentration in **MW-8** has returned to pre-treatment levels. Contaminant concentrations in EW-1R (located on the downgradient edge of the UST cavity) and **MW-3R** (located approximately 20 feet downgradient of the UST cavity) also remain elevated, suggesting that dissolved-phase contamination continues to emanate from the UST cavity.

A map showing the reductions in the size and magnitude of the dissolved-phase plume over time is provided as **Figure 11**. The map shows the dissolved-phase plume before excavation (which occurred in September-October 2016), after excavation / before surfactant washing, and after surfactant washing.

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CONCLUSIONS

Soil contamination was successfully remediated through excavation, and the extent and magnitude of the dissolved phase groundwater plume has been reduced through excavation and treatment of the UST cavity. A dissolved-phase groundwater plume persists downgradient of the UST cavity.

PROPOSED FUTURE ACTIONS

The proposed future action will be developed after the receipt of USTIF's third-party reviewer's evaluation and comments. Previously, the third-party reviewer shared their interest in applying carbon-based injectate (CBI) technology at the site, and IGI provided information for the application of this technology. The design of the CBI application should be reconsidered based on the current data.

RELEASES

March 19, 2014	Unleaded Gasoline	A release of unleaded gasoline was discovered during an upgrade of the tank tops. Strong odors were noted in the area of the sump on Tank 003, and SPL was observed on the pit water.
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POTENTIAL RECEPTORS

Surface Water:	Cowanshannock Creek is located approximately 250 feet south of the UST cavity and is the nearest surface water feature. Groundwater at the site flows south toward the creek. Dissolved-phase contaminants are currently not detected in the most downgradient monitoring wells. Therefore, no adverse impacts to Cowanshannock Creek are expected.
Water Well Survey:	A search of the PaGWIS database identified three water wells within 0.25 miles of the site. All three wells are located northwest and upgradient/crossgradient of the site. The nearest well is approximately 700 feet from the site. None of these wells is likely to be impacted by the release at the site.
Municipal Water Supply:	The facility is serviced by public water supplied by the Cowanshannock Township Municipal Authority. Valley Village is the last customer on the water line. Properties to the east receive public water from the Rural Valley Municipal Authority. Cowanshannock Township Municipal Authority obtains its water from a number of wells located greater than 1.5 miles north of SR 85. The wells are greater than 150 feet in depth. Rural Valley Municipal Authority

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obtains its water from several wells and springs. Most of these are located greater than one mile from Valley Village. One well is located 200 yards south of State Route 85 and approximately 0.5 miles east of Valley Village. The wells are greater than 150 feet in depth. All of these wells are located upgradient or crossgradient of the property and are not likely to be impacted by the release at the site.

SITE HISTORY

- 1985: The subject property was developed as a gasoline retail station and convenience store. The existing gasoline USTs (Tanks 001 through 003) and a diesel fuel UST (Tank 004, later removed) were installed at that time. Previously, the property was undeveloped.
- March 2014: A release of unleaded gasoline was discovered and reported during an upgrade of the tank tops. Strong odors were noted in the area of the sump on Tank 003, and SPL was observed on the pit water. Two soil samples and one groundwater sample were collected and submitted for laboratory analysis of unleaded gasoline parameters. Concentrations of unleaded gasoline parameters exceeded their respective SHS-RUA values in both soil and groundwater.
- June 2014: IGI completed five soil borings (B-1, B-2, B-3, B-4 and B-5), installed one nested vapor monitoring point (VM-1, 2 - 3 feet bgs and 4 - 5 feet bgs screened intervals) and installed five monitoring wells (MW-1, MW-2, **MW-3**, **MW-4** and MW-5) on the Valley Village property. Concentrations of unleaded gasoline parameters exceeded their respective SHS-RUA values in both soil and groundwater.
- August 2014: IGI completed five additional soil borings (B-6, B-7, B-8, B-9 and B-10) and installed six additional monitoring wells (MW-6, MW-7, **MW-8**, MW-9, MW-10 and MW-11) and one pilot test well (PT-1). Some of the soil borings and monitoring wells were installed on the downgradient CCWA property in accordance with a signed property access agreement. The extent of impact to soil and groundwater was not defined.
- September 2014: Slug tests were completed in monitoring wells MW-1, **MW-8** and MW-10. Permeability was calculated to be 0.4 feet/day (MW-1), 0.004 feet/day (**MW-8**), and 0.005 feet/day (MW-10).
- September 2014 – January 2015: Installed VM-2 and VM-3. Soil vapor sampling was completed. Contaminant concentrations did not exceed their respective Nonresidential MSC_{SG} values in any of the soil vapor monitoring points. The benzene concentration exceeded the Residential MSC_{SG} value in VM-3 (installed in the source area) during the first of two sampling events for this soil vapor point.
- November 2014: IGI requested a property access agreement with Consol Energy, owner of the next property downgradient from the CCWA property. Consol Energy denied the request in an email dated November 11, 2014. Therefore, no additional monitoring wells

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could be installed downgradient of MW-10, and the extent of impact to groundwater could not be fully delineated in the downgradient direction.

- November – December 2014: IGI completed an in situ chemical oxidation pilot study using PersulfOx. A test pit was excavated into the groundwater table in an area of highly impacted soil and groundwater, and approximately 115 pounds of PersulfOx was mixed with the soil in the saturated zone. Soil and groundwater samples were collected at specified times before and after the oxidant application to evaluate the effectiveness of the product. The pilot study showed that PersulfOx was able to oxidize gasoline contaminants in both soil and groundwater, but that there was little effect on contaminant concentrations downgradient of the test pit due to the large amount of adsorbed phase contaminant mass at the site.
- December 2014: IGI completed two soil borings (B-11 and B-12) and installed one monitoring well (MW-12), one extraction well (EW-1), and four UST cavity injection wells (CP-1 through CP-4). Concentrations of unleaded gasoline parameters did not exceed their respective SHS-RUA values in soil or groundwater. The extent of impact to soil was fully delineated during this investigation. The extent of impact to groundwater was delineated to the extent possible.
- December 2014: Approximately 338 gallons of groundwater and product globules was removed from the UST cavity using vacuum extraction.
- March 2015: An SCR/RAP was submitted to the PADEP. The SHS-RUA was selected as the cleanup standard, and the proposed remediation included a combination of excavation and oxidant application.
- June 2015: The PADEP approved the SCR/RAP with modifications.
- October 2015: Monitoring wells **MW-13**, **MW-14**, and MW-15, extraction well EW-2, piezometers P-1 and P-2, and vapor monitoring point VM-4 were drilled and installed.
- August 2016: Approximately 160 pounds of RegenOx Part A was mixed in slurry form and injected into the UST cavity.
- September – October 2016:
 - A total of 1,919.71 tons of impacted soil was excavated and disposed at Greentree Landfill in Kersey, PA. Attainment of the SHS-RUA was demonstrated for soil.
 - A total of 10,781 gallons of groundwater was extracted during excavation and disposed at Danco Industries in Harrisville, PA.
 - A PlumeStop barrier was installed along the downgradient property boundary. A total of 4,000 pounds of PlumeStop and 495 pounds of ORC was applied to a trench approximately 70 feet long, 5 feet wide, and 17 feet deep.
 - An additional 160 pounds of RegenOx Part A was mixed in slurry form and injected into the UST cavity.

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- Wells MW-1R, **MW-3R**, **MW-4R**, P-2R, EW-1R were installed to replace wells removed during excavation.
- August 2017: RAP Addendum No. 2 was submitted to and approved by the PADEP.
- September – November 2017: The first cycle of Ivey-sol surfactant washing of the UST cavity was completed. A total of 120 gallons of Ivey-sol concentrate (diluted at a 1:25 ratio) was injected into the UST cavity to desorb adsorbed-phase contamination. The injected fluids and desorbed contaminants were subsequently extracted and transported to Danco Industries, Inc. in Barkeyville, PA for recycling.

GEOLOGY

Regional Geology

The site is located in the Intermontane Pittsburgh Low Plateau Section of the Allegheny Plateau Physiographic Province. The Appalachian Plateau Province extends in a northeast direction from northern Alabama to New York. In Pennsylvania it occupies more than 26,000 square miles, nearly 60 percent of the total area of the state. This province is characterized by folded bedrock where the ridges are supported by anticlines and the valleys are underlain by synclines. The province in Pennsylvania is divided into seven sections, based on the elevations along the ridges and the depth of erosion. The bedrock in the Pittsburgh Low Plateau is gently folded with dips seldom exceeding five degrees. The rock types are mostly shale with sandstone, siltstone and limestone occurring locally.¹

The site is underlain by rocks of Pennsylvanian age. Stratigraphically, the highest geologic formation is the Casselman Formation, which outcrops on ridge tops east of the site. The extent and thickness of this formation is limited. The formation below the Casselman is the Glenshaw Formation. This unit consists primarily of marine shale and limestones, with locally mined coal deposits. Documented strip mining activity took place in the area between 1990 and 2005. The Allegheny Formation underlies the site, State Route 85 west of Yatesborough, PA and portions of Cowanshannock Creek. The Allegheny Formation includes repeating cycles of coal, limestone and sediments ranging from claystone to coarse sandstone. This unit was defined to include all the economically significant coal seam in the area. The Upper Freeport is defined as the upper boundary of the Allegheny and has been extensively deep mined south and east of the site. The mining took place between 1896 and 1931 in the Yatesborough Number 2 and Number 3 mines.²

Structurally the site sits between the axes of two anticlines and is near the axis of a syncline.³ The anticipated dip of the rock is expected to be near zero.

¹ Shultz, Charles H, ed. The Geology of Pennsylvania. Pennsylvania Geological Survey and the Pittsburgh Geological Society, 1999.

² www.emappa.dep.state.pa.us/

³ Berg, T.M., Edmunds, W.E., et. al., Geologic map of Pennsylvania, second ed. Pennsylvania Geologic Survey, 1980.

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The soils at the site are classified as the Ernest series of soils which are derived from colluvial material that moved down slope from nearby uplands. Soil Conservation Service maps indicate the presence of these soils north and south of Route 85 and Cowanshannock Creek and along creeks and valley walls in the area.⁴

Site Geology and Hydrogeology

The subsurface at the site consists primarily of silty clay with weathered sandstone and shale fragments and traces of sand, gravel and scoria (burned shale and sandstone). The thickness of the silty clay layer ranges from 9 to 24 feet thick. Overall the material tends to be stiff to hard with some thin, soft zones. The poorly sorted texture and varied composition are characteristic of a colluvial soil.

In some areas, the colluvial silty clay is overlain with several feet of fill consisting of sand, gravel, weathered shale, silty clay, and cinders in varying combinations. Residual soils were only identified in four borings and consisted of gray plastic silty clay encountered at a depth of approximately 18 feet bgs and weathered shale and sandstone occurring between 19 and 27 feet bgs.

Groundwater is present in thin, discontinuous zones throughout the site. These thin, groundwater-bearing zones are most abundant between 2 to 6 feet bgs but were also identified as deep as 17 feet bgs. Some of the thin, groundwater-bearing zones were identified in shallow fill material. Other thin, groundwater-bearing zones were identified within soft zones in the otherwise stiff to hard colluvium. Because the groundwater-bearing zones are very thin, the total volume of groundwater present at the site is relatively low.

Fill material in the UST cavity consists of pea gravel and shale fill. The static groundwater level in the UST cavity ranges from approximately 2 to 3 feet bgs. The UST cavity acts as a groundwater reservoir that slowly surcharges the thin, groundwater-bearing zones at the site. During dry periods when the groundwater level in the UST cavity is lower, groundwater flow through the shallowest groundwater-bearing zones may be limited.

During dry periods, groundwater recovery at the site is very slow following groundwater extraction (days to weeks). During wetter periods, groundwater may recover more quickly. Slug test results indicated that the permeability ranged from 0.4 feet per day in MW-1, located in close proximity to the UST cavity, to 0.004 feet per day in MW-8, located farther downgradient. Based on the results of various pilot tests, it appears that the shallow groundwater-bearing zones are more permeable than the deeper zones. Piezometers screened exclusively in the deeper zone did not exhibit influence during a vacuum extraction pilot test while wells screened exclusively in the shallow zone and wells screened throughout the groundwater-bearing zones did exhibit influence. During a pilot study in which PersulfOx was injected into a shallow trench, the injected product was identified in a monitoring well located 63 feet downgradient within 10 days. During the excavation of the PersulfOx pilot study trench, a thin, water-bearing zone was

⁴ Martin, George D. Soil Survey of Armstrong County, Pennsylvania. United States Department of Agriculture Soil Conservation Service, the Pennsylvania State University College of Agriculture and the Pennsylvania Department of Environmental Resources State Conservation Commission, 1977.

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encountered within a layer of sandstone cobbles at 3 feet bgs.

Generally, groundwater flows southward toward Cowanshannock Creek, which is the likely groundwater receptor and topographically the lowest point south of the UST cavity.

PERMITS / ACCESS AGREEMENTS

- Property Access Agreement with CCWA for completion of soil borings and installation of monitoring wells on the adjacent CCWA property.
- Property Access Agreement with CCWA for excavation of impacted soil on the adjacent CCWA property.

IGI requested a property access agreement with Consol Energy, owner of the next property downgradient from the CCWA property. Consol Energy denied the request in an email dated November 11, 2014.

MONITORING

Well Specifications:	Fifteen, 2-inch diameter monitoring wells (MW-1R through MW-15). One, 8-inch diameter extraction well (EW-1R). One, 4-inch diameter extraction well (EW-2). One nested set of 1-inch diameter soil vapor monitoring points (VM-1). Three single 1-inch diameter soil vapor monitoring points (VM-2R, VM-3R, and VM-4). One, 2-inch piezometer (P-2R).
Gauging Frequency:	Quarterly at all monitoring wells.
Sampling Frequency:	Quarterly at select monitoring wells.
Analytical Laboratories Used:	ESC Lab Sciences, Mt. Juliet, TN. Pace Analytical Services, Inc., Greensburg, PA.
Analytical Method Used:	EPA Method 5030B/8260B for unleaded gasoline parameters in groundwater.

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ATTACHMENTS

Figure 1: Topographic Map

Figure 2: Site Map

Figure 3: Groundwater Contour Map

Figure 4: Benzene Isoconcentration Map

Figure 5: Ethylbenzene Isoconcentration Map

Figure 6: MTBE Isoconcentration Map

Figure 7: Naphthalene Isoconcentration Map

Figure 8: 1,2,4-Trimethylbenzene Isoconcentration Map

Figure 9: Contaminant Concentration Trend Graphs (Source Area)

Figure 10: Contaminant Concentration Trend Graphs (Distal Wells)

Figure 11: Dissolved-Phase Plume Progression Maps

Table 1.0: Monitoring Well Gauging Data

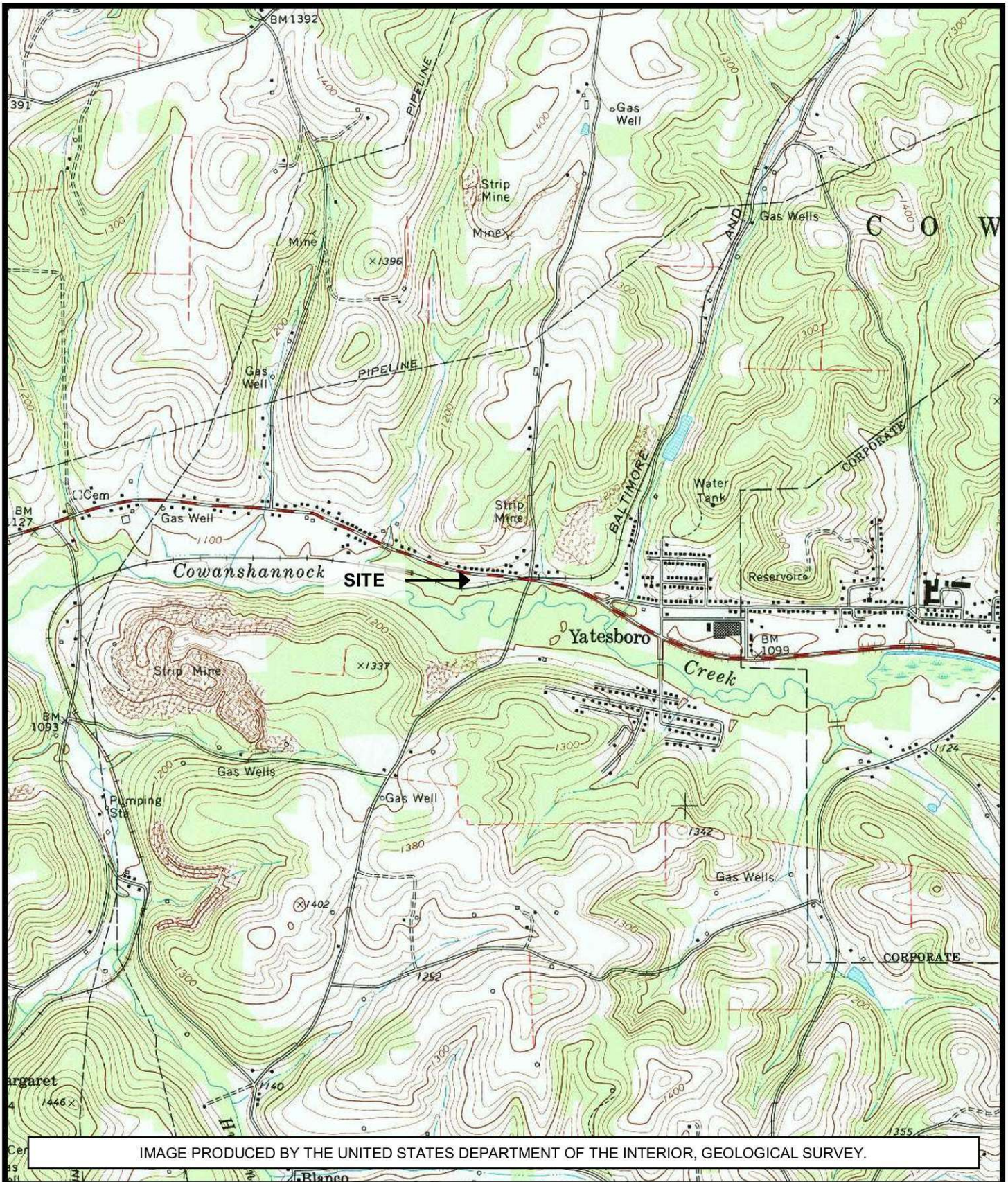
Table 2.0: Current Groundwater Analytical Results

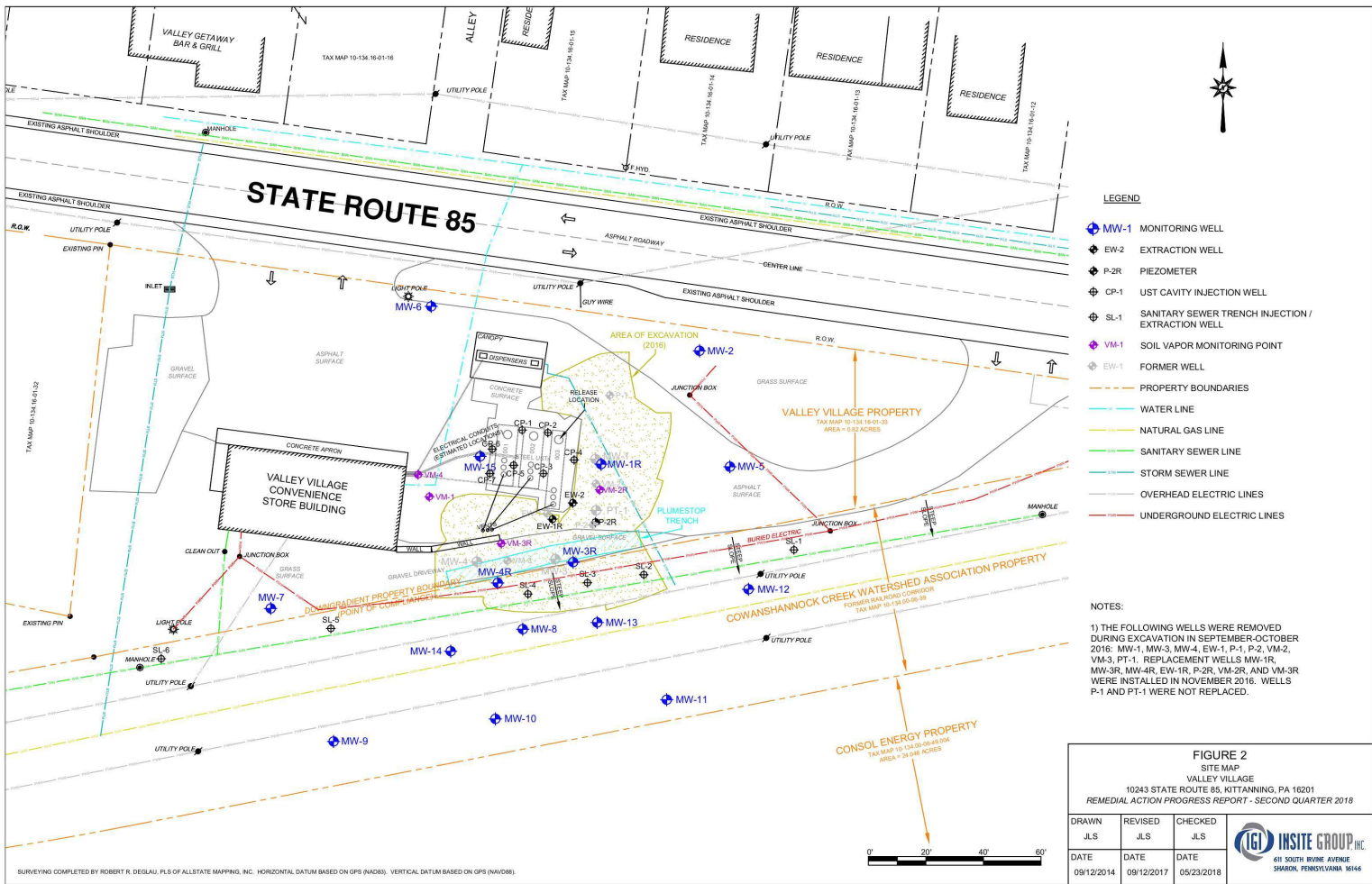
Table 3.0: Historical Groundwater Analytical Results

Table 4.0: Groundwater Chemistry

ATTACHMENT A: Laboratory Analytical Report

FIGURES





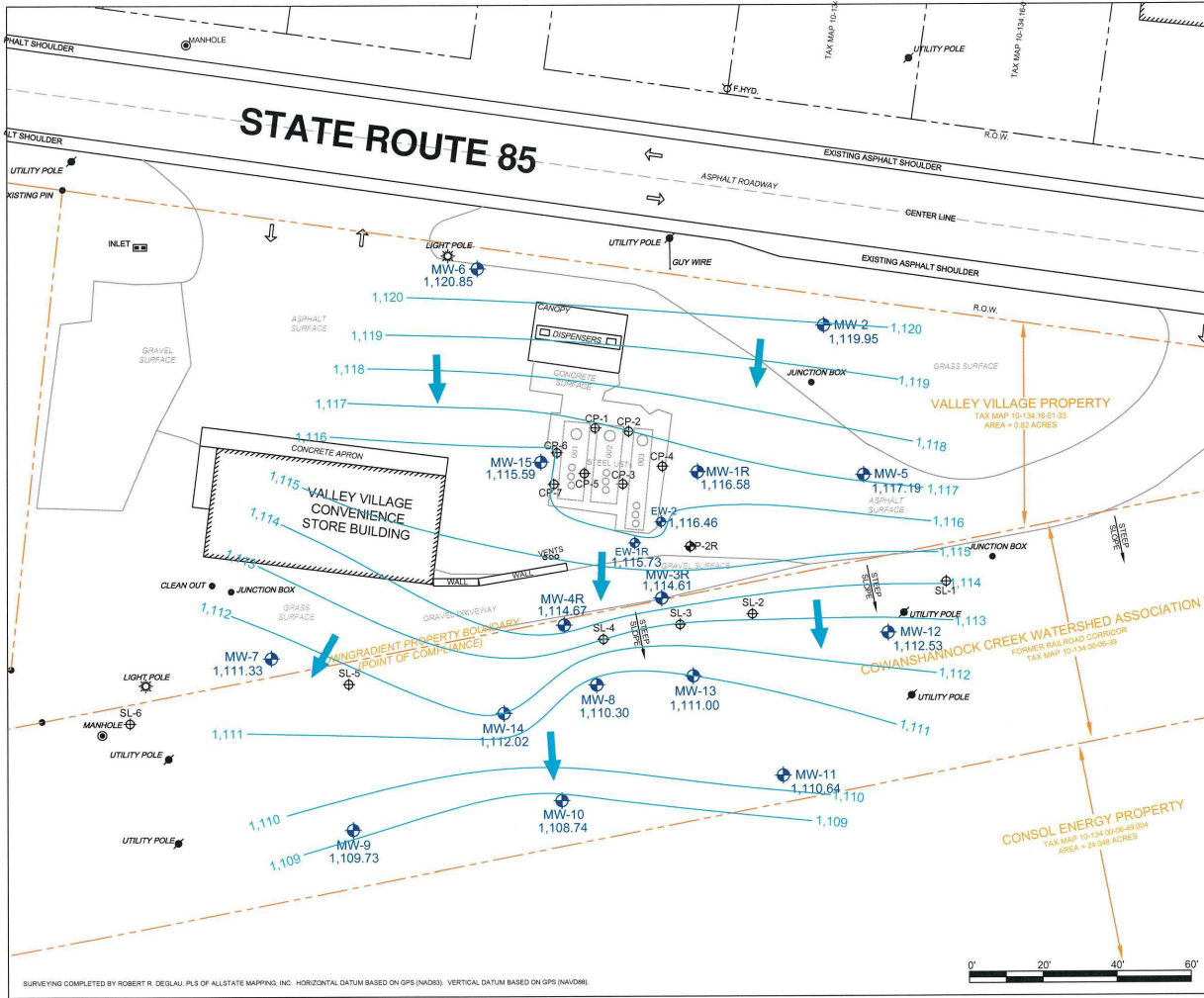
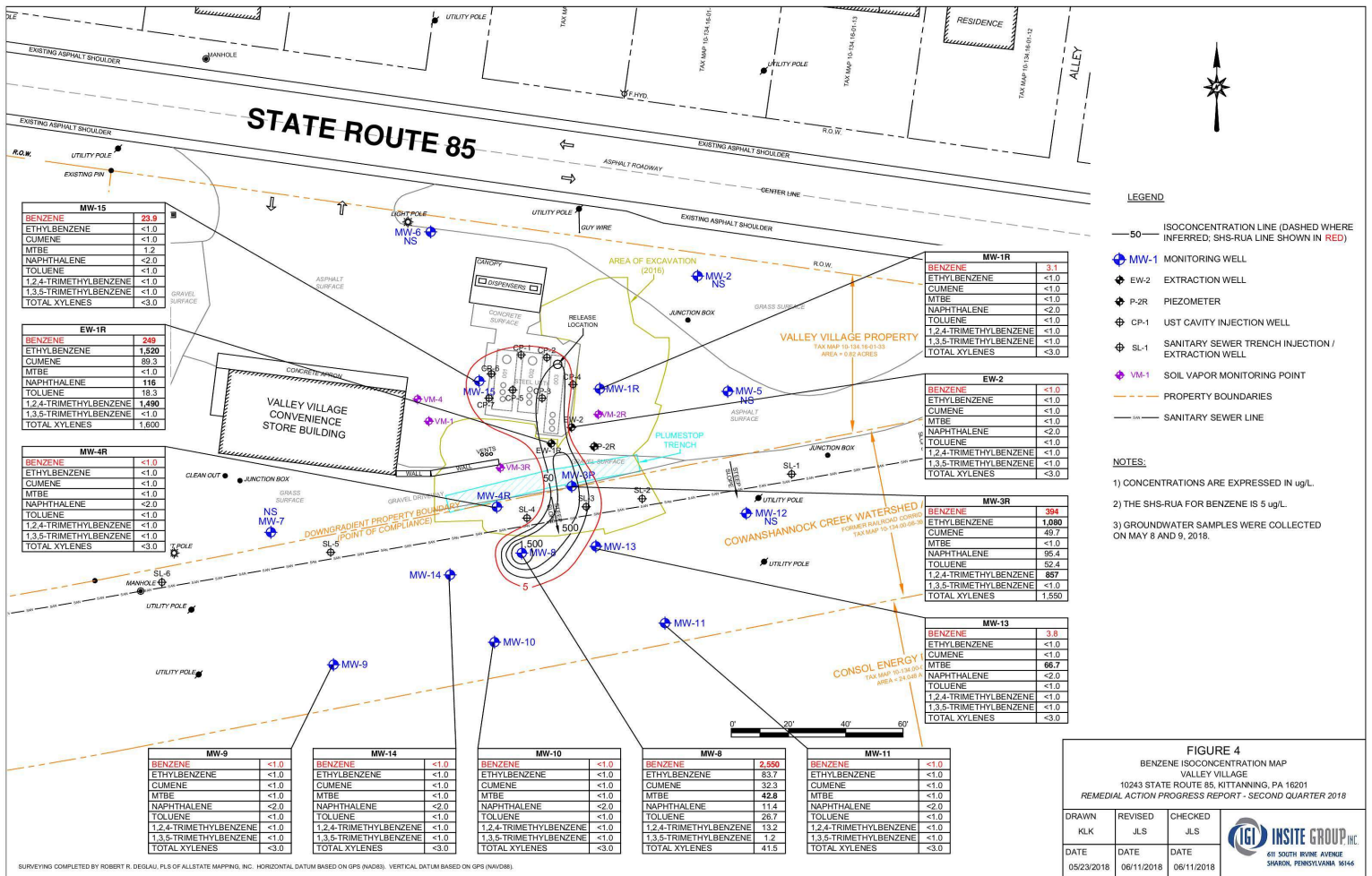
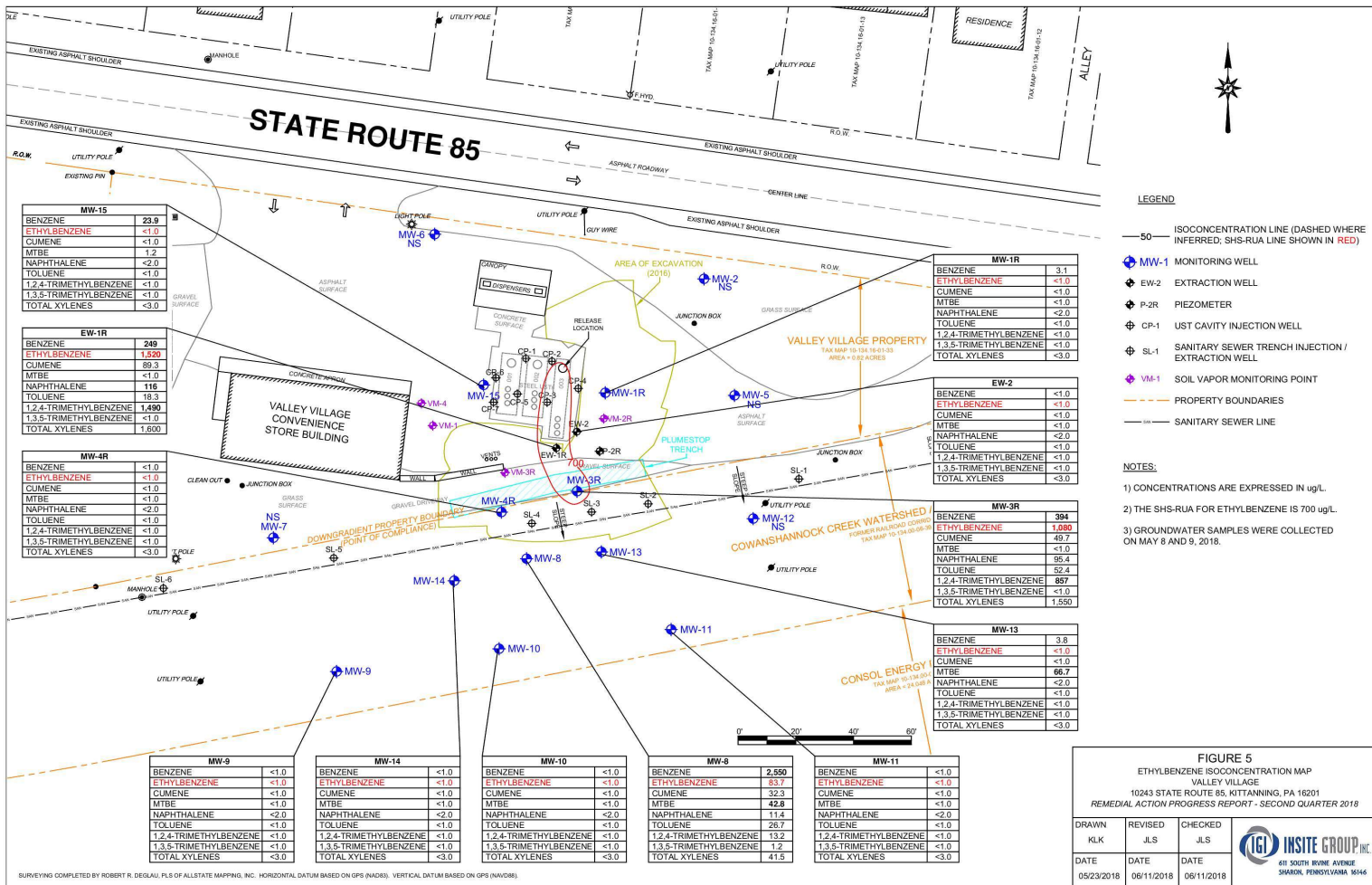


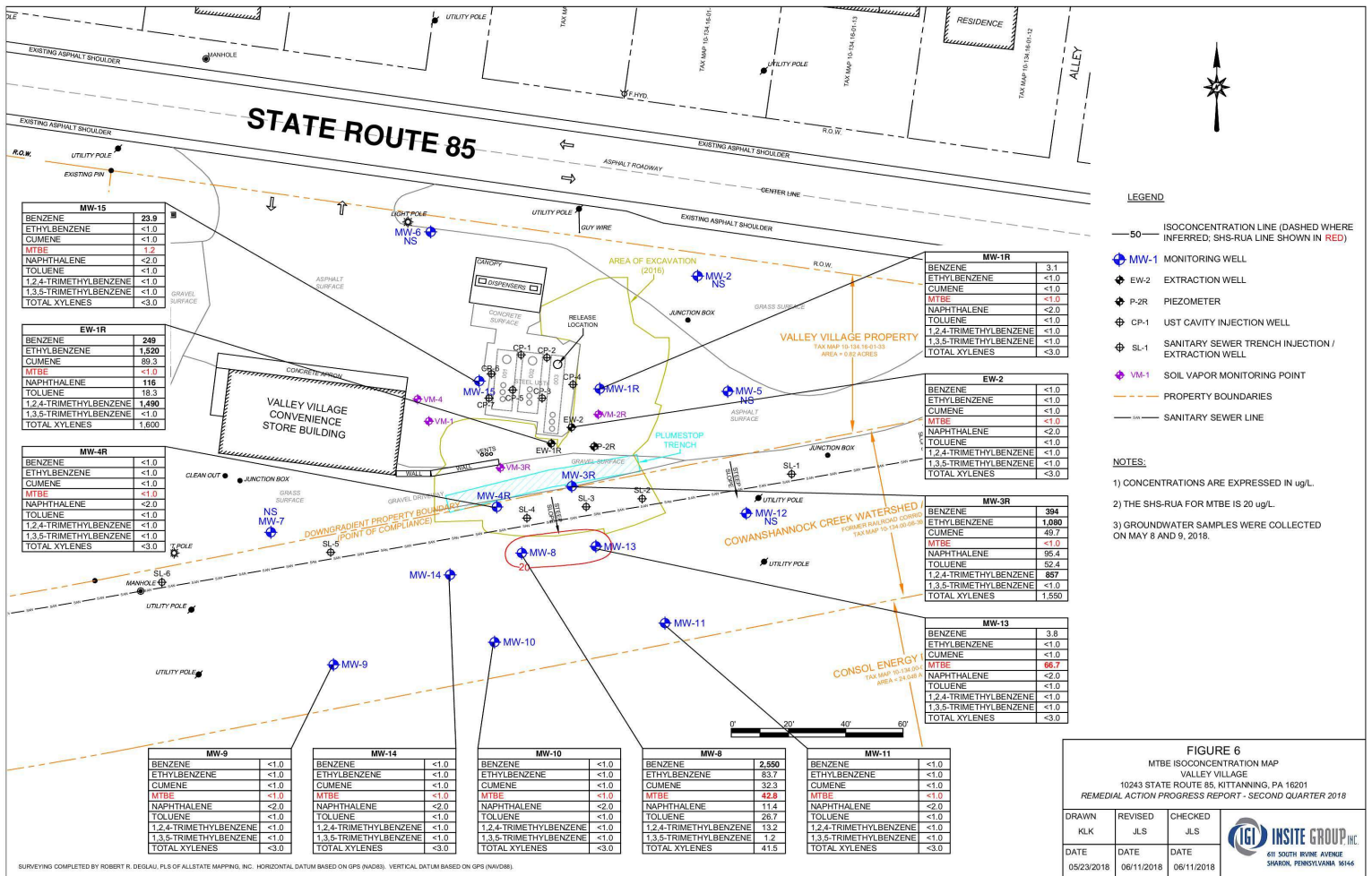
FIGURE 3
GROUNDWATER CONTOUR MAP
VALLEY VILLAGE
10243 STATE ROUTE 85, KITTANNING, PA 16201
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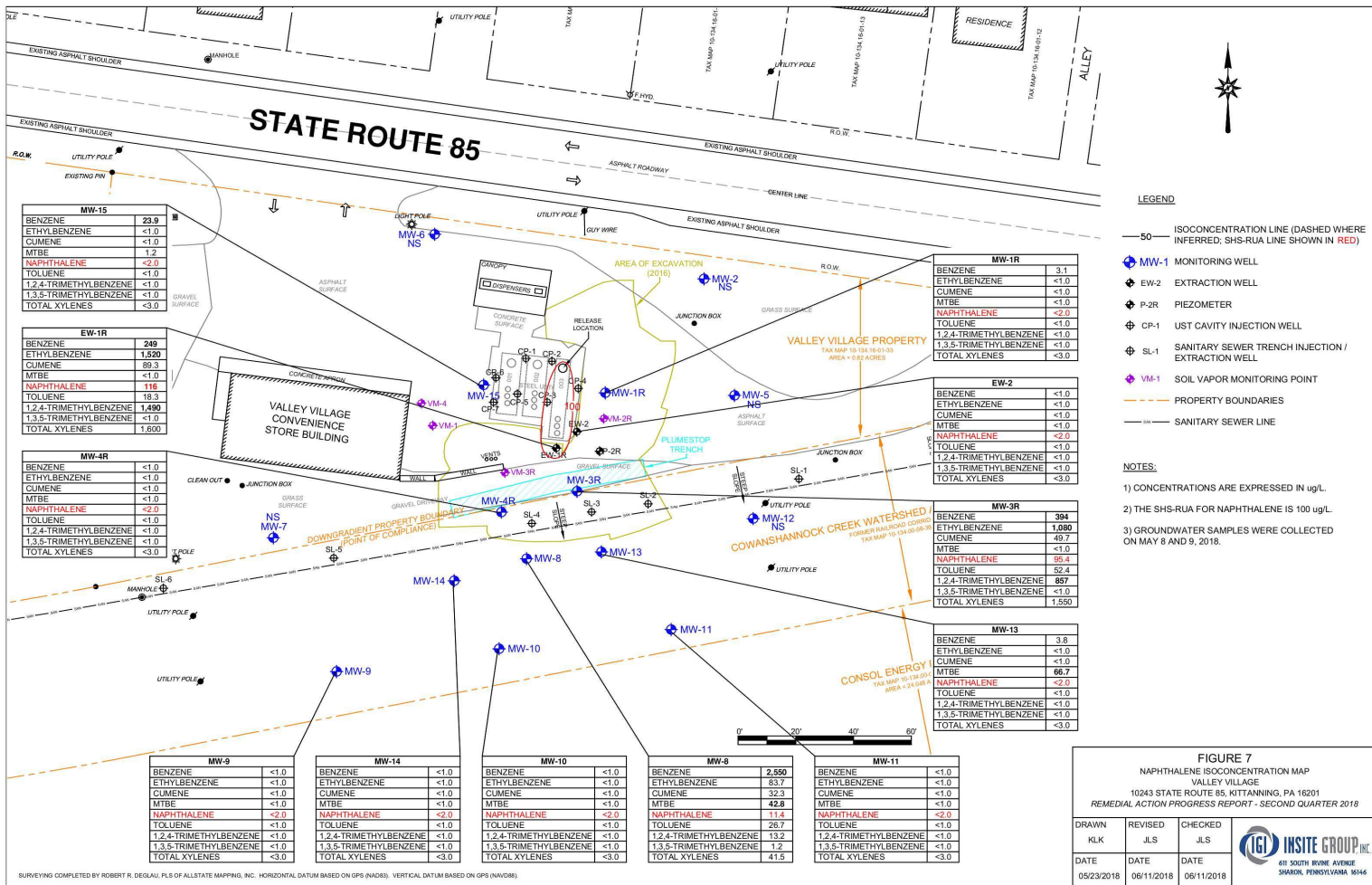
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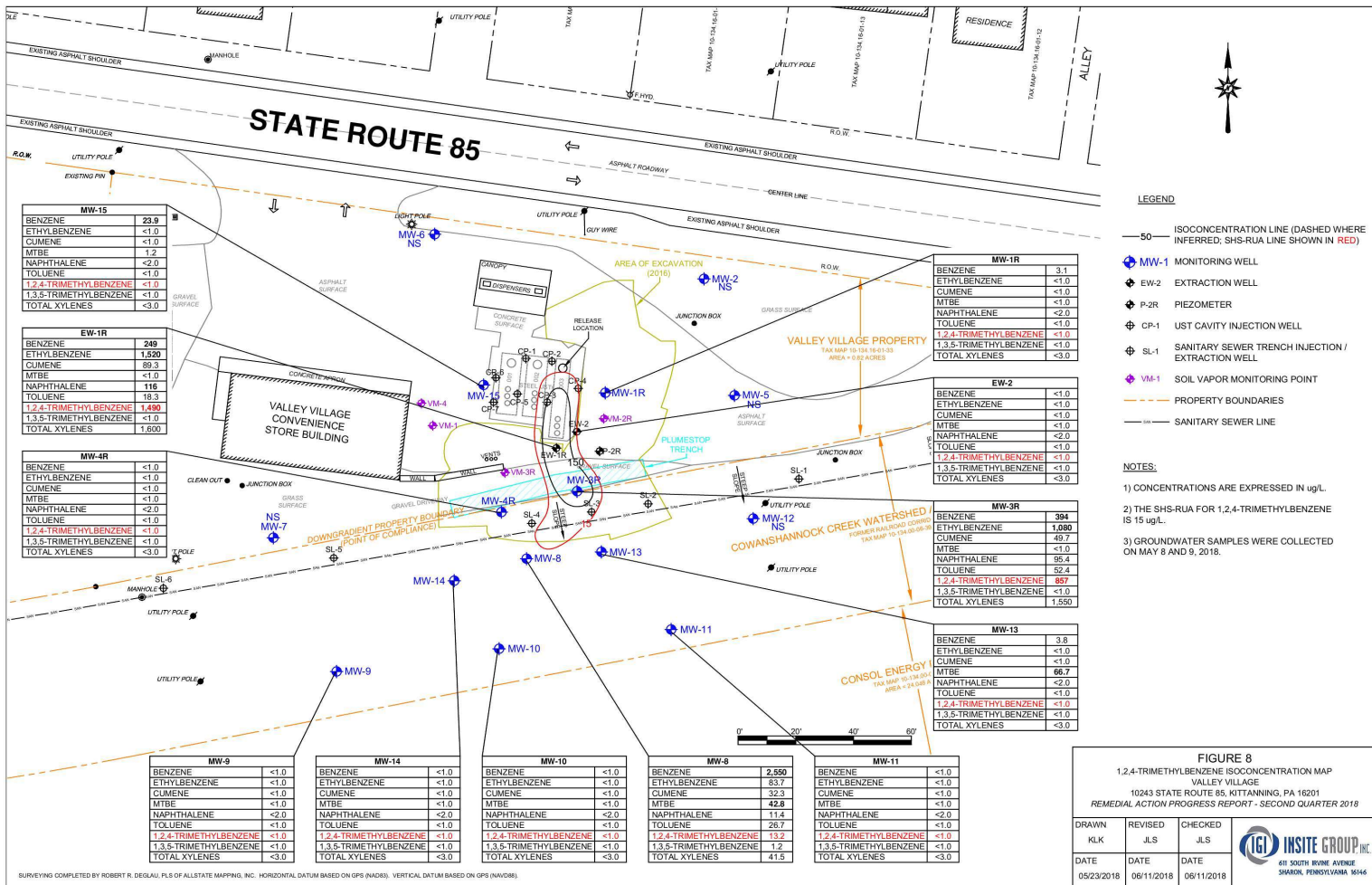
INSITE GROUP INC.
401 SOUTH MOORE AVENUE
SHARON, PENNSYLVANIA 16146

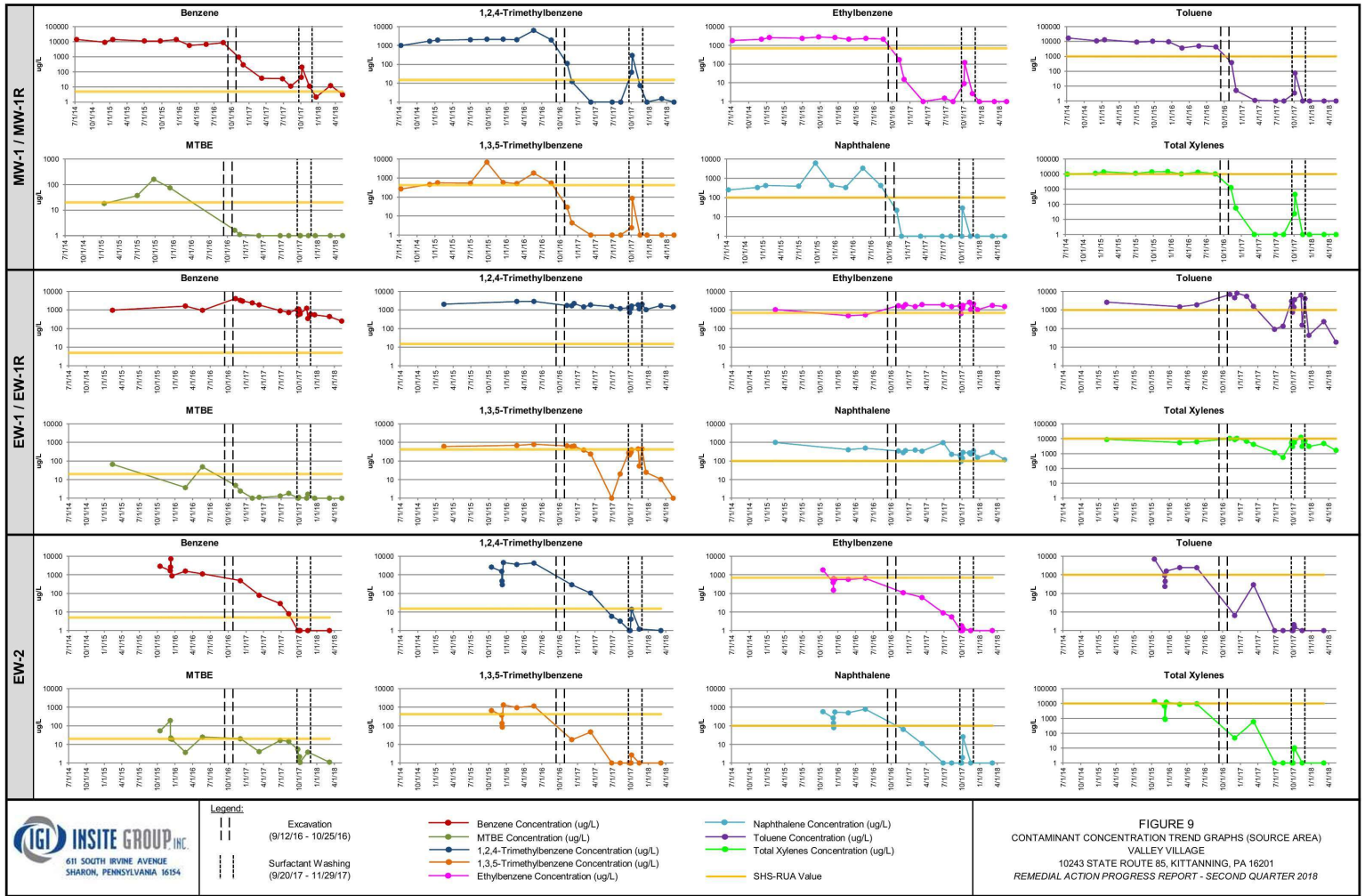












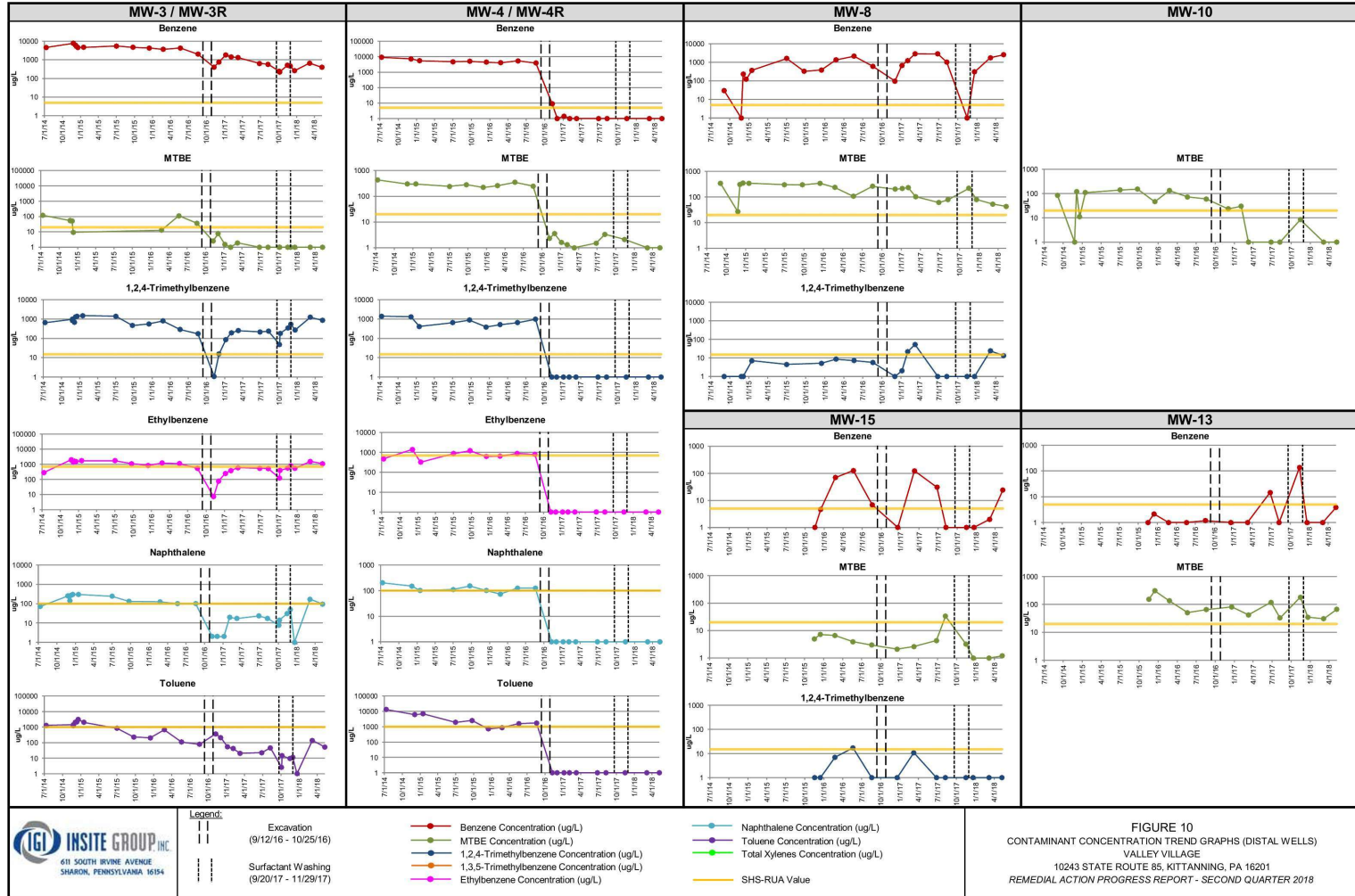
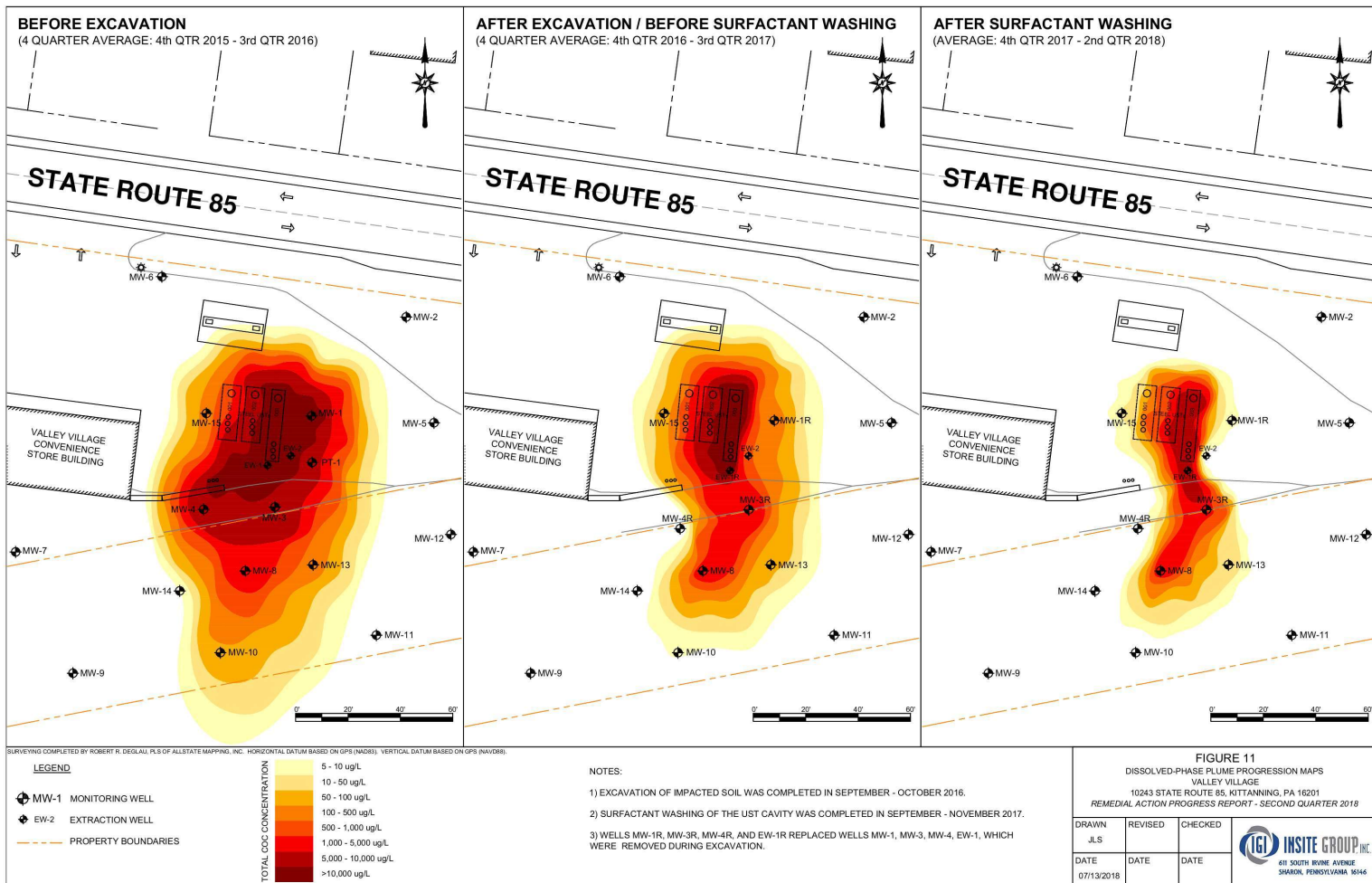


FIGURE 10
CONTAMINANT CONCENTRATION TREND GRAPHS (DISTAL WELLS)
VALLEY VILLAGE
10243 STATE ROUTE 85, KITTANNING, PA 16201
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TABLES

Remedial Action Progress Report

Valley Village

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Tables

Second Quarter 2018

Table 1.0: Monitoring Well Gauging Data

Gauging Location	Total Depth Below Grade (feet)	Screen Length (feet)	TOC Elevation (feet)	Date	Depth to Water (feet)	Groundwater Elevation (feet)
Monitoring Wells						
MW-1R	13	3 – 13	1,119.96	05/08/18	3.38	1,116.58
MW-2	13	3 – 13	1,123.60	05/08/18	3.65	1,119.95
MW-3R	13	3 – 13	1,119.11	05/08/18	4.50	1,114.61
MW-4R	13	3 – 13	1,119.02	05/08/18	4.35	1,114.67
MW-5	13	3 – 13	1,118.99	05/08/18	1.80	1,117.19
MW-6	13	3 – 13	1,123.45	05/08/18	2.60	1,120.85
MW-7	13	3 – 13	1,114.20	05/08/18	2.87	1,111.33
MW-8	13	3 – 13	1,115.67	05/08/18	5.37	1,110.30
MW-9	13	3 – 13	1,113.82	05/08/18	4.09	1,109.73
MW-10	13	3 – 13	1,113.63	05/08/18	5.33	1,108.74
MW-11	13	3 – 13	1,114.03	05/08/18	3.39	1,110.64
MW-12	12	6 – 12	1,117.57	05/08/18	5.04	1,112.53
MW-13	13	3 – 13	1,116.80	05/08/18	5.80	1,111.00
MW-14	13	3 – 13	1,116.56	05/08/18	4.54	1,112.02
MW-15	13	3 – 13	1,121.55	05/08/18	5.96	1,115.59
Extraction Wells						
EW-1R	15	3 – 15	1,120.11	05/08/18	4.22	1,115.89
EW-2	13	3 – 13	1,120.39	05/08/18	3.80	1,116.46
Piezometers						
P-2R	15	13 – 15	1,119.76	05/08/18	5.13	1,114.16
Sewer Line Trench Wells						
SL-1	11.7	8.7 – 11.7	1,118.70	NM	NM	NM
SL-2	12.2	8.2 – 12.2	1,119.00	NM	NM	NM
SL-3	12.3	9.0 – 12.3	1,118.57	05/08/18	4.94	1,113.63
SL-4	12.0	8.7 – 12.0	1,119.78	05/08/18	7.22	1,112.56
SL-5	10.4	7.4 – 10.4	1,116.79	NM	NM	NM
SL-6	7.7	4.7 – 7.7	1,114.02	NM	NM	NM

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 2.0: Current Groundwater Analytical Results

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
Monitoring Wells												
MW-1R	05/08/18	3.38	1,116.58	3.1	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-3R	05/08/18	4.50	1,114.61	394	1,080	49.7	<1.0	95.4	52.4	857	<1.0	1,550
MW-4R	05/08/18	4.35	1,114.67	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-8	05/08/18	5.37	1,110.30	2,550	83.7	32.3	42.8	11.4	26.7	13.2	1.2	41.5
MW-9	05/08/18	4.09	1,109.73	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	05/08/18	5.33	1,108.74	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	05/08/18	3.39	1,110.64	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	05/08/18	5.80	1,111.00	3.8	<1.0	<1.0	66.7	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	05/08/18	4.54	1,112.02	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	05/08/18	5.96	1,115.59	23.9	<1.0	<1.0	1.2	<2.0	<1.0	<1.0	<1.0	<3.0
Extraction Wells												
EW-1R	05/09/18	4.22	1,115.89	249	1,520	89.3	<1.0	116	18.3	1,490	<1.0	1,600
EW-2	05/09/18	3.80	1,116.46	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
Sewer Line Trench Wells												
SL-3	05/09/18	4.94	1,113.63	46.8	83.5	4.5	9.3	<2.0	3.1	10.2	<1.0	3.4
SL-4	05/09/18	7.22	1,112.56	<1.0	<1.0	<1.0	4.9	<2.0	<1.0	<1.0	<1.0	<3.0
QA/QC Samples												
MW-51 (MW-3R DUP)	05/08/18	--	--	356	1,120	42.2	<1.0	82.5	43.7	923	<1.0	1,540
Trip Blank	05/09/18	--	--	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
- 1) Concentrations exceeding their respective SHS-RUA values are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 1 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-1	07/10/14	2.49	1,118.01	14,000	1,800	<250	<92	<250	17,000	990	260	10,000
MW-1	12/04/14	2.59	1,117.91	9,200	2,100	<250	<92	330	11,000	1,700	460	11,000
MW-1	01/15/15	3.37	1,117.13	14,000	2,600	120	18	420	13,000	1,900	560	14,000
MW-1	07/01/15	1.57	1,118.93	11,000	2,400	110	<37	390	9,100	2,000	530	11,000
MW-1	09/23/15	3.02	1,117.48	11,200	2,780	1,520	162	6,020	10,200	2,140	6,780	14,200
MW-1	12/15/15	3.68	1,116.82	13,700	2,580	<200	<73.4	426	9,570	2,130	592	14,400
MW-1	02/23/16	2.59	1,117.91	5,620	2,090	<200	<73.4	334	3,680	2,010	501	10,200
MW-1	05/20/16	2.75	1,117.75	6,540	2,340	<200	<73.4	3,280	5,010	6,210	1,810	13,600
MW-1	08/18/16	2.38	1,118.12	8,520	2,130	<200	<73.4	424	4,320	1,940	541	10,400
MW-1 was abandoned and removed during excavation activities in September and October 2016 and replaced by MW-1R.												
MW-1R	11/07/16	4.02	1,115.94	954	173	7.23	1.63	21.6	388	110	28.9	1,260
MW-1R	12/02/16	3.41	1,116.55	289	15.0	1.1	1.1	<2.0	5.0	12.0	4.4	55.8
MW-1R	03/09/17	3.24	1,116.72	37.8	<1.0	<1.0	<1.0	<2.0	1.1	<1.0	<1.0	<3.0
MW-1R	06/26/17	3.43	1,116.53	35.5	1.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-1R	08/08/17	3.70	1,116.26	11.1	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-1R	11/15/17	3.48	1,116.48	11.2	2.6	<1.0	<1.0	<2.0	<1.0	7.5	<1.0	<3.0
MW-1R	12/20/17	--	--	2.14	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<3.00
MW-1R	03/06/18	3.41	1,116.55	12.4	<1.0	<1.0	<1.0	<2.0	<1.0	1.5	<1.0	<3.0
MW-1R	05/08/18	3.38	1,116.58	3.1	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-2	07/10/14	9.70	1,113.90	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-2	12/04/14	10.59	1,113.01	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-2	01/15/15	7.97	1,115.63	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-2	07/01/15	6.42	1,117.18	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-2	09/23/15	9.94	1,113.66	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-2	12/15/15	6.44	1,117.16	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-2	02/23/16	3.79	1,119.81	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-2	05/20/16	7.30	1,116.30	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	1.71	<3.00
MW-2	08/18/16	10.08	1,113.52	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-2	12/02/16	8.47	1,115.13	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-2	Sampling was discontinued following eight or more quarters of results below SHS											

- Notes:
- 1) Concentrations exceeding their respective SHS-RUA values are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 2 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-3	07/10/14	2.99	1,115.94	4,600	280	<25	120	71	1,300	650	230	3,700
MW-3	11/24/14	3.58	1,115.35	7,600	2,000	73	55	250	1,400	970	280	5,500
MW-3	12/04/14	3.10	1,115.83	6,300	1,400	<100	51	140	2,000	680	230	3,800
MW-3	12/10/14	1.89	1,117.04	5,200	1,600	73	<9.2	270	2,100	1,300	310	7,800
MW-3	12/18/14	2.22	1,116.71	4,600	1,500	<250	<92	300	3,100	1,400	340	7,900
MW-3	01/15/15	2.60	1,116.33	4,700	1,700	82	<37	300	2,000	1,500	360	7,700
MW-3	06/05/15	--	--	6,910	2,350	107	15.1	395	175	2,030	507	6,210
MW-3	07/01/15	1.63	1,117.30	5,500	1,700	82	<37	240	830	1,400	310	3,900
MW-3	09/23/15	3.13	1,115.80	4,650	1,090	<100	<36.7	131	<500	459	75.1	1,180
MW-3	12/15/15	3.02	1,115.91	4,240	842	<100	<36.7	<100	<500	554	39.2	1,060
MW-3	02/23/16	2.88	1,116.05	3,670	1,200	62.7	12.8	124	669	798	124	3,140
MW-3	05/20/16	3.64	1,115.29	4,280	1,120	<100	110	<100	<500	288	<38.7	811
MW-3	08/18/16	2.83	1,116.10	2,010	544	<100	<36.7	<100	<500	173	<100	<300
MW-3 was abandoned and removed during excavation activities in September and October 2016 and replaced by MW-3R.												
MW-3R	11/07/16	6.38	1,112.73	403	7.15	<1.00	2.50	<5.00	365	1.07	<1.00	106
MW-3R	12/02/16	4.82	1,114.29	757	76.4	<1.0	7.6	<2.0	210	15.3	10.3	728
MW-3R	03/09/17	4.04	1,115.07	1,310	598	14.9	1.9	16.9	20.7	250	104	897
MW-3R	06/26/17	5.23	1,113.88	632	544	16.4	<1.0	23.2	22.3	215	107	539
MW-3R	08/08/17	7.09	1,112.02	575	514	17.5	<1.0	17.2	45.7	232	82.1	467
MW-3R	11/14/17	5.41	1,113.70	509	559	25.0	<1.0	30.3	9.5	338	22.4	251
MW-3R	12/20/17	--	--	260	529	<25.0	<9.18	<25.0	<25.0	268	<25.0	<75.0
MW-3R	03/07/18	5.19	1,113.92	653	1,530	68.2	<1.0	169	137	1,230	<1.0	4,170
MW-3R	05/08/18	4.50	1,114.61	394	1,080	49.7	<1.0	95.4	52.4	857	<1.0	1,550

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
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Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 3 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-4	07/10/14	8.39	1,109.34	9,000	470	<100	430	200	13,000	1,400	370	10,000
MW-4	12/04/14	5.78	1,111.95	7,200	1,400	<100	300	150	6,100	1,300	360	6,600
MW-4	01/15/15	5.72	1,112.01	5,400	320	<100	300	<100	6,800	410	230	3,800
MW-4	07/01/15	4.34	1,113.39	4,700	860	35	240	110	1,900	650	240	3,200
MW-4	09/23/15	5.52	1,112.21	5,010	1,200	55.8	279	152	2,530	879	278	3,820
MW-4	12/15/15	4.64	1,113.09	4,440	620	<100	220	<100	705	384	134	1,270
MW-4	02/23/16	4.35	1,113.38	4,020	644	33.1	256	72.5	871	513	176	1,590
MW-4	05/20/16	4.83	1,112.90	5,310	878	<100	348	124	1,580	649	224	2,230
MW-4	08/18/16	8.18	1,109.55	3,880	780	<100	245	125	1,700	982	317	2,750
MW-4 was abandoned and removed during excavation activities in September and October 2016 and replaced by MW-4R.												
MW-4R	11/07/16	6.25	1,112.77	8.80	<1.00	<1.00	2.32	<5.00	<5.00	<1.00	<1.00	3.77
MW-4R	12/02/16	4.63	1,114.39	<1.0	<1.0	<1.0	3.5	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	03/09/17	3.94	1,115.08	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	06/26/17	5.10	1,113.92	<1.0	<1.0	<1.0	1.5	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	08/08/17	6.96	1,112.06	<1.0	<1.0	<1.0	3.3	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	11/14/17	5.29	1,113.73	<1.0	<1.0	<1.0	2.1	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	03/06/18	5.05	1,113.97	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-4R	05/08/18	4.35	1,114.67	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 4 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-5	07/10/14	2.99	1,116.00	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-5	12/04/14	3.97	1,115.02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-5	01/15/15	3.11	1,115.88	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-5	07/01/15	3.47	1,115.52	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-5	09/23/15	5.79	1,113.20	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-5	12/15/15	3.19	1,115.80	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-5	02/23/16	2.50	1,116.49	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-5	05/20/16	2.68	1,116.31	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-5	08/18/16	2.02	1,116.97	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-5	12/02/16	3.77	1,115.22	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-5	Sampling was discontinued following eight or more quarters of results below SHS											
MW-6	09/03/14	4.33	1,119.12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-6	12/04/14	2.63	1,120.82	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-6	01/15/15	2.38	1,121.07	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-6	07/01/15	2.18	1,121.27	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-6	09/23/15	4.44	1,119.01	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-6	12/15/15	2.30	1,121.15	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-6	02/23/16	2.12	1,121.33	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-6	05/20/16	3.95	1,119.50	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-6	08/18/16	2.02	1,116.97	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-6	12/02/16	4.53	1,114.46	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-6	Sampling was discontinued following eight or more quarters of results below SHS											
MW-7	09/03/14	3.15	1,111.05	<1.0	<1.0	<1.0	1.5	<5.0	<5.0	<1.0	<1.0	<3.0
MW-7	12/04/14	5.04	1,109.16	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-7	01/15/15	4.26	1,109.94	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-7	07/01/15	3.90	1,110.30	<1.0	<1.0	<1.0	1.2	<5.0	<5.0	<1.0	<1.0	<3.0
MW-7	09/23/15	5.77	1,108.43	<1.00	<1.00	<1.00	2.11	<5.00	<5.00	<1.00	<1.00	<3.00
MW-7	12/15/15	4.10	1,110.10	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-7	02/23/16	3.56	1,110.64	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-7	05/20/16	3.62	1,110.58	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-7	08/18/16	4.73	1,109.47	<1.00	<1.00	<1.00	1.12	<5.00	<5.00	<1.00	<1.00	<3.00
MW-7	12/02/16	4.59	1,109.61	<1.0	<1.0	<1.0	1.5	<2.0	<1.0	<1.0	<1.0	<3.0
MW-7	Sampling was discontinued following eight or more quarters of results below SHS											

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 5 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-8	09/03/14	5.91	1,109.76	30	<1.0	<1.0	340	<5.0	<5.0	<1.0	<1.0	<3.0
MW-8	11/24/14	7.34	1,108.33	<1.0	<1.0	<1.0	27	<5.0	<5.0	<1.0	<1.0	<3.0
MW-8	12/04/14	7.15	1,108.52	230	6.1	<5.0	310	<25	<25	<5.0	<5.0	<15
MW-8	12/18/14	6.48	1,109.19	120	<50	<50	350	<50	<250	<19	<19	<150
MW-8	01/15/15	6.58	1,109.09	370	16	<5.0	340	<25	<25	7.0	<5.0	19
MW-8	07/01/15	5.03	1,110.64	1,600	28	16	300	<25	<25	<5.0	<5.0	<15
MW-8	09/23/15	9.95	1,105.72	327	<25.0	<25.0	298	<25.0	<125	<9.32	<9.68	<75.0
MW-8	12/15/15	6.78	1,108.89	385	6.67	<5.00	343	<25.0	<25.0	5.09	<5.00	<15.0
MW-8	02/23/16	5.88	1,109.79	1,340	31.3	14.8	237	13.8	34.4	8.57	6.49	28.8
MW-8	05/20/16	7.00	1,108.67	2,110	29.2	19.2	107	22.7	23.7	7.08	10.4	29.4
MW-8	08/18/16	7.46	1,108.21	609	47.9	10.1	260	<5.00	13.0	5.66	<1.00	18.3
MW-8	12/02/16	7.05	1,108.62	96.3	3.9	<1.0	203	<2.0	<1.0	<1.0	<1.0	<3.0
MW-8	03/09/17	5.29	1,110.38	2,830	89.0	31.3	103	24.3	96.9	52.3	35.7	168
MW-8	06/26/17	5.75	1,109.92	2,800	76.4	32.3	60.6	10.7	13.6	1.0	7.8	7.5
MW-8	08/08/17	8.32	1,107.35	1,030	28.7	14.3	77.9	<2.0	1.8	<1.0	<1.0	<3.0
MW-8	11/14/17	6.32	1,109.35	<1.0	<1.0	<1.0	219	<2.0	<1.0	<1.0	<1.0	<3.0
MW-8	12/20/17	--	--	305	<1.00	2.64	79.7	<5.00	1.38	<1.00	<1.00	<3.00
MW-8	03/06/18	5.26	1,110.41	1,760	71.9	34.9	52.5	11.1	44.3	23.8	7.2	65.4
MW-8	05/08/18	5.37	1,110.30	2,550	83.7	32.3	42.8	11.4	26.7	13.2	1.2	41.5
MW-9	09/03/14	4.36	1,109.46	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-9	12/04/14	4.26	1,109.56	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-9	01/15/15	4.77	1,109.05	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-9	07/01/15	3.81	1,110.01	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-9	09/23/15	10.52	1,103.30	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-9	12/15/15	4.63	1,109.19	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-9	02/23/16	4.08	1,109.74	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-9	05/20/16	5.27	1,108.55	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-9	08/18/16	9.76	1,104.06	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-9	12/02/16	3.67	1,110.15	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	03/09/17	3.92	1,109.90	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	06/26/17	4.97	1,108.85	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	08/08/17	8.36	1,105.46	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	11/14/17	3.93	1,109.89	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	03/06/18	4.37	1,109.45	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-9	05/08/18	4.09	1,109.73	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 6 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-10	09/03/14	5.18	1,108.45	<1.0	<1.0	<1.0	84	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	11/24/14	6.23	1,107.40	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	12/04/14	6.27	1,107.36	<1.0	<1.0	<1.0	120	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	12/18/14	5.67	1,107.96	<1.0	<1.0	<1.0	11	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	01/15/15	5.91	1,107.72	<1.0	<1.0	<1.0	110	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	07/01/15	4.31	1,109.32	<1.0	<1.0	<1.0	140	<5.0	<5.0	<1.0	<1.0	<3.0
MW-10	09/23/15	9.55	1,104.08	<1.00	<1.00	<1.00	151	<5.00	<5.00	<1.00	<1.00	<3.00
MW-10	12/15/15	6.75	1,107.40	<1.00	<1.00	<1.00	46.2	<5.00	<5.00	<1.00	<1.00	<3.00
MW-10	02/23/16	6.15	1,108.00	<1.00	<1.00	<1.00	132	<5.00	<5.00	<1.00	<1.00	<3.00
MW-10	05/20/16	6.90	1,107.25	<1.00	<1.00	<1.00	72.4	<5.00	<5.00	<1.00	<1.00	<3.00
MW-10	08/18/16	7.43	1,106.72	<1.00	<1.00	<1.00	59.4	<5.00	<5.00	<1.00	<1.00	<3.00
MW-10	12/02/16	6.30	1,107.85	<1.0	<1.0	<1.0	23.3	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	03/09/17	5.31	1,108.76	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	06/26/17	5.82	1,108.25	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	08/08/17	8.56	1,105.51	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	11/14/17	6.16	1,107.91	<1.0	<1.0	<1.0	8.4	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	03/06/18	5.50	1,108.57	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-10	05/08/18	5.33	1,108.74	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	09/03/14	3.81	1,110.22	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-11	12/04/14	3.81	1,110.22	<1.0	<1.0	<1.0	1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-11	01/15/15	4.43	1,109.60	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-11	07/01/15	4.43	1,109.60	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-11	09/23/15	9.62	1,104.41	<1.00	<1.00	<1.00	7.51	<5.00	<5.00	<1.00	<1.00	<3.00
MW-11	12/15/15	4.77	1,109.26	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-11	02/23/16	3.34	1,110.69	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-11	05/20/16	5.96	1,108.07	<1.00	<1.00	<1.00	1.89	<5.00	<5.00	<1.00	<1.00	<3.00
MW-11	08/18/16	3.45	1,110.58	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-11	12/02/16	3.01	1,111.02	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	03/09/17	3.19	1,110.84	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	06/26/17	3.99	1,110.04	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	08/08/17	7.81	1,106.22	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	11/14/17	3.34	1,110.69	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	03/06/18	3.94	1,110.09	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-11	05/08/18	3.39	1,110.64	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
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 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
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Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 7 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-12	12/22/14	18.80	1,098.77	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-12	01/15/15	6.79	1,110.78	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-12	07/01/15	4.88	1,112.69	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
MW-12	09/23/15	9.14	1,108.43	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-12	12/15/15	6.97	1,110.50	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-12	02/23/16	5.72	1,111.75	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-12	05/20/16	7.15	1,110.32	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-12	08/18/16	6.23	1,111.24	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
MW-12	12/02/16	7.00	1,110.47	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-12	Sampling was discontinued following eight or more quarters of results below SHS											
MW-13	11/17/15	10.18	1,106.62	<1.00	<1.00	<1.00	153	<5.00	<5.00	<1.00	<1.00	<3.00
MW-13	12/15/15	7.40	1,109.40	2.14	<1.00	<1.00	307	<5.00	<5.00	<1.00	<1.00	<3.00
MW-13	02/23/16	6.69	1,110.11	<1.00	<1.00	<1.00	135	<5.00	<5.00	<1.00	<1.00	<3.00
MW-13	05/20/16	7.34	1,109.46	<1.00	<1.00	<1.00	50.9	<5.00	<5.00	<1.00	<1.00	<3.00
MW-13	08/18/16	9.24	1,107.56	1.17	<1.00	<1.00	65.0	<5.00	<5.00	<1.00	<1.00	<3.00
MW-13	12/02/16	8.08	1,108.72	<1.0	<1.0	<1.0	81.5	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	03/09/17	6.31	1,110.49	<1.0	<1.0	<1.0	41.9	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	06/26/17	6.46	1,110.34	14.4	<1.0	<1.0	118	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	08/08/17	8.46	1,108.34	<1.0	<1.0	<1.0	32.9	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	11/14/17	7.14	1,109.66	136	14.7	<1.0	181	<2.0	1.7	1.1	1.1	6.0
MW-13	12/20/17	--	--	<1.00	<1.00	<1.00	34.8	<5.00	<1.00	<1.00	<1.00	<3.00
MW-13	03/06/18	5.76	1,111.04	<1.0	<1.0	<1.0	30.5	<2.0	<1.0	<1.0	<1.0	<3.0
MW-13	05/08/18	5.80	1,111.00	3.8	<1.0	<1.0	66.7	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	11/17/15	8.66	1,107.90	<1.00	<1.00	<1.00	3.72	<5.00	<5.00	<1.00	<1.00	<3.00
MW-14	12/15/15	7.29	1,109.27	<1.00	<1.00	<1.00	10.9	<5.00	<5.00	<1.00	<1.00	<3.00
MW-14	02/23/16	6.22	1,110.34	<1.00	<1.00	<1.00	3.25	<5.00	<5.00	<1.00	<1.00	<3.00
MW-14	05/20/16	7.36	1,109.20	<1.00	<1.00	<1.00	2.10	<5.00	<5.00	<1.00	<1.00	<3.00
MW-14	08/18/16	8.99	1,107.57	<1.00	<1.00	<1.00	3.47	<5.00	<5.00	<1.00	<1.00	<3.00
MW-14	12/02/16	7.69	1,108.87	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	03/09/17	5.81	1,110.75	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	06/26/17	5.78	1,110.78	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	08/08/17	7.88	1,108.68	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	11/14/17	6.00	1,110.56	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	03/06/18	4.89	1,111.67	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
MW-14	05/08/18	4.54	1,112.02	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

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Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 8 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
MW-15	11/17/15	9.84	1,111.71	<1.00	<1.00	<1.00	4.97	<5.00	<5.00	<1.00	<1.00	<3.00
MW-15	12/15/15	6.34	1,115.21	4.67	<1.00	<1.00	7.14	<5.00	<5.00	<1.00	<1.00	5.45
MW-15	02/23/16	5.25	1,116.30	69.7	18.5	<1.00	6.64	<5.00	75.2	6.92	3.48	94.3
MW-15	05/20/16	4.99	1,116.56	127	37.1	1.10	3.90	<5.00	33.9	17.0	7.28	144
MW-15	08/18/16	6.92	1,114.63	6.86	1.22	<1.00	2.96	<5.00	<5.00	<1.00	<1.00	<3.00
MW-15	12/02/16	6.74	1,114.81	<1.0	<1.0	<1.0	2.1	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	03/09/17	5.96	1,115.59	123	26.0	1.7	2.6	3.1	1.9	10.8	5.6	26.8
MW-15	06/26/17	5.71	1,115.84	30.7	2.3	1.3	4.3	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	08/08/17	6.02	1,115.53	<1.0	<1.0	<1.0	33.2	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	11/15/17	6.78	1,114.77	<1.0	<1.0	<1.0	3.2	<2.0	<1.0	<1.0	<1.0	<3.0
MW-15	03/06/18	5.60	1,115.95	2.0	1.7	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.5
MW-15	05/08/18	5.96	1,115.59	23.9	<1.0	<1.0	1.2	<2.0	<1.0	<1.0	<1.0	<3.0
EW-1	02/11/15	2.18	--	975	1,040	115	66.7	983	2,620	2,020	602	8,800
EW-1	12/15/15	3.10	--	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-1	02/23/16	2.22	--	1,610	492	55.3	<10.0	401	1,480	2,860	677	5,420
EW-1	05/20/16	2.39	--	950	545	<100	48.7	490	1,910	2,900	786	6,110
EW-1 was removed during excavation activities in September and October 2016 and replaced by EW-1R.												
EW-1R	12/02/16	4.47	1,115.64	3,280	1,470	87.0	2.4	282	4,510	1,670	595	8,630
EW-1R	03/09/17	4.35	1,115.76	1,860	1,920	75.7	1.1	337	1,580	1,870	238	4,150
EW-1R	06/26/17	4.00	1,116.11	905	1,900	92.3	1.3	963	91.6	1,500	<1.0	1,160
EW-1R	08/08/17	4.14	1,115.97	733	1,530	94.2	1.8	229	135	1,200	20.2	548
EW-1R	11/15/17	4.38	1,115.73	352	1,070	74.1	1.6	232	154	1,140	53.6	3,060
EW-1R	12/20/17	--	--	546	1,030	53.4	<10.0	151	42.5	1,040	24.2	2,970
EW-1R	03/07/18	4.38	1,115.73	442	1,780	111	<1.0	289	237	1,720	10.2	4,690
EW-1R	05/09/18	4.22	1,115.89	249	1,520	89.3	<1.0	116	18.3	1,490	<1.0	1,600
EW-2	10/15/15	2.33	1,117.93	2830	1,810	114	52.4	574	6,990	2,540	655	13,600
EW-2	12/15/15	3.31	1,116.95	869	565	65.6	<18.4	545	1,570	4,520	1,340	12,400
EW-2	02/23/16	2.30	1,117.96	1,560	566	61.3	<10.0	497	2,440	3,570	931	8,660
EW-2	05/20/16	2.43	1,117.83	1,120	643	66.5	24.7	782	2,440	4,240	1,160	9,490
EW-2	12/02/16	3.99	1,116.27	482	108	5.3	19.9	64.5	6.5	289	17.8	47.5
EW-2	03/09/17	3.79	1,116.47	79.5	60.1	2.4	4.0	10.8	285	103	45.7	604
EW-2	06/26/17	3.66	1,116.60	27.9	8.9	<1.0	16.2	<2.0	<1.0	5.8	<1.0	<3.0
EW-2	08/08/17	3.78	1,116.48	7.8	5.4	<1.0	14.3	<2.0	<1.0	3.2	<1.0	<3.0
EW-2	11/15/17	3.98	1,116.28	<1.0	<1.0	<1.0	3.8	<2.0	<1.0	1.2	<1.0	<3.0
EW-2	03/07/18	3.99	1,116.27	<1.0	<1.0	<1.0	1.1	<2.0	<1.0	<1.0	<1.0	<3.0
EW-2	05/09/18	3.80	1,116.46	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 9 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
PT-1	09/03/14	4.67	--	2,800	170	24	160	<50	6,400	660	260	4,600
PT-1	12/04/14	4.54	--	1,800	710	52	240	110	1,100	910	300	3,600
PT-1	01/15/15	4.42	--	1,600	220	18	420	<50	1,200	250	140	1,500
PT-1	12/15/15	4.44	--	993	523	38.3	455	27.5	541	131	77.4	685
PT-1	02/23/16	3.68	--	1,050	1,300	90.6	361	219	1,780	1,310	406	5,040
PT-1	05/20/16	4.44	--	980	751	56.9	407	144	644	594	260	1,600
PT-1 was abandoned and removed during excavation activities during September and October 2016.												
P-1	11/17/15	9.08	1,112.31	6,680	1,300	50.0	<10.0	246	26,900	499	353	7,450
P-1	12/15/15	6.15	1,115.24	7,420	367	<25.0	<9.18	85.1	23,000	472	171	5,810
P-1	02/23/16	5.03	1,116.36	7,440	256	15.3	<5.00	206	9,990	666	225	6,980
P-1	05/20/16	5.29	1,116.10	7,140	681	<100	102	267	1,160	822	258	4,350
P-1 was abandoned and removed during excavation activities during September and October 2016.												
P-2	11/17/15	9.20	1,110.09	248	40.5	3.43	31.6	<5.00	308	11.7	28.7	293
P-2	12/15/15	5.80	1,113.49	3,570	637	31.7	173	31.9	841	405	151	2,900
P-2	02/23/16	5.16	1,114.13	NR	NR	NR	NR	NR	NR	NR	NR	NR
P-2	05/20/16	5.64	1,113.65	2,600	431	<100	305	<100	<500	301	159	736
P-2 was abandoned and removed during excavation activities in September and October 2016 and replaced by P-2R.												
P-2R	12/02/16	7.58	1,112.18	NR	NR	NR	NR	NR	NR	NR	NR	NR
Standpipe	12/04/14	1.23	--	29	51	6.7	<1.0	<5.0	32	24	<1.0	120
Standpipe	12/10/14	1.10	--	10	14	1.2	<1.0	<5.0	8.5	2.4	1.3	66
Standpipe	12/18/14	1.23	--	2.1	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<3.0
Standpipe	01/15/15	2.12	--	8.8	16	3.2	<1.0	5.9	17	34	12	78
Standpipe	06/05/15	--	--	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
Standpipe	12/15/15	1.95	--	74.8	25.2	1.12	<1.00	<5.00	17.2	6.88	<1.00	52.1
Standpipe	02/23/16	1.37	--	35.7	8.38	<1.00	2.97	<5.00	15.6	8.28	2.94	50.0
Standpipe	05/20/16	1.48	--	149	75.0	3.35	<1.00	32.6	82.9	86.2	4.84	213
The standpipe was removed during excavation activities in September and October 2016.												

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report

Valley Village

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 3.0: Historical Groundwater Analytical Results (page 10 of 10)

Sample ID	Date	Depth to Water (feet)	GW Elevation (feet)	Unleaded Gasoline Parameters (ug/L)								
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SHS-RUA				5	700	840	20	100	1,000	15	420	10,000
SL-1	10/19/16	--	--	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<1.00	<3.00
SL-1	12/02/16	6.81	1,111.89	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-1	02/02/17	4.69	1,114.01	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-1	03/16/17	5.72	1,112.98	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-2	10/19/16	--	--	2.79	<1.00	<1.00	<1.00	<5.00	<5.00	2.60	<1.00	8.47
SL-2	12/02/16	7.27	1,111.73	11.7	<1.0	<1.0	<1.0	<2.0	<1.0	2.3	1.0	11.0
SL-2	02/02/17	5.33	1,113.67	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	1.9	<1.0	<3.0
SL-2	03/16/17	6.26	1,112.74	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-3	12/02/16	6.95	1,111.62	1.6	<1.0	<1.0	<1.0	2.5	<1.0	1.4	<1.0	<3.0
SL-3	02/02/17	5.30	1,113.27	62.2	6.0	<1.0	3.5	<2.0	4.9	2.3	1.5	21.4
SL-3	03/16/17	6.06	1,112.51	47.4	8.0	<1.0	3.0	<2.0	1.0	3.2	2.2	18.9
SL-3	06/26/17	5.92	1,112.65	82.5	31.7	<1.0	3.6	<2.0	<1.0	4.5	<1.0	<3.0
SL-3	08/08/17	8.22	1,110.35	53.1	17.2	<1.0	4.8	<2.0	<1.0	<1.0	<1.0	<3.0
SL-3	11/15/17	5.88	1,112.69	2.6	<1.0	<1.0	3.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-3	12/20/17	--	--	<1.00	<1.00	<1.00	13.1	<5.00	<1.00	<1.00	<1.00	<3.00
SL-3	03/07/18	5.07	1,113.50	33.7	23.8	1.5	7.0	<2.0	13.0	18.1	<1.0	42.0
SL-3	05/09/18	4.94	1,113.63	46.8	83.5	4.5	9.3	<2.0	3.1	10.2	<1.0	3.4
SL-4	10/19/16	--	--	43.2	81.4	12.9	5.45	18.4	<5.00	393	117	444
SL-4	12/02/16	8.29	1,111.49	93.7	42.5	7.5	19.2	13.6	<1.0	119	35.0	62.4
SL-4	01/05/17	7.18	1,112.60	1.4	<1.0	<1.0	7.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-4	02/02/17	7.20	1,112.58	6.0	<1.0	<1.0	14.4	<2.0	<1.0	2.5	<1.0	<3.0
SL-4	03/16/17	7.89	1,111.89	23.6	5.2	1.5	8.1	<2.0	<1.0	3.7	<1.0	<3.0
SL-4	06/26/17	7.77	1,112.01	19.5	<1.0	<1.0	2.2	<2.0	<1.0	<1.0	<1.0	<3.0
SL-4	08/08/17	9.58	1,110.20	1,470	<20.0	<20.0	112	<40.0	<20.0	<20.0	<20.0	<60.0
SL-4	11/15/17	7.83	1,111.95	<1.0	<1.0	<1.0	19.0	2.1	<1.0	<1.0	<1.0	<3.0
SL-4	12/20/17	--	--	<1.00	<1.00	<1.00	5.85	<5.00	<1.00	<1.00	<1.00	<3.00
SL-4	03/07/18	7.20	1,112.58	<1.0	<1.0	<1.0	4.8	<2.0	<1.0	<1.0	<1.0	<3.0
SL-4	05/09/18	7.22	1,112.56	<1.0	<1.0	<1.0	4.9	<2.0	<1.0	<1.0	<1.0	<3.0
SL-5	10/19/16	--	--	11.8	125	19.2	<1.00	39.1	10.9	342	99.9	478
SL-5	12/02/16	5.72	1,111.07	<1.0	<1.0	<1.0	1.6	<2.0	<1.0	2.1	<1.0	<3.0
SL-5	02/02/17	5.38	1,111.41	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-5	03/16/17	5.65	1,111.14	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-6	12/02/16	3.18	1,110.84	<1.0	<1.0	<1.0	1.2	<2.0	<1.0	<1.0	<1.0	<3.0
SL-6	02/02/17	2.99	1,111.03	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0
SL-6	03/16/17	3.19	1,110.83	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<3.0

- Notes:
- 1) Concentrations exceeding the SHS are shown in **bold**.
 - 2) DUP = blind duplicate sample.
 - 3) Samples were analyzed by EPA Method 5030B / 8260B.
 - 4) NR = Well did not recover after purging.

Remedial Action Progress Report*Valley Village*

10243 State Route 85, Kittanning, PA 16201

Facility ID No. 03-06500

Tables

Second Quarter 2018

Table 4.0: Groundwater Chemistry

Sample ID	Date	Dissolved Oxygen	Temperature	pH	Conductivity	ORP
		ppm	deg. C.	S.U.	ppm	mV
MW-1R	05/08/18	<1.0	13.7	7.0	1,510	44
MW-3R	05/09/18	1.0	11.2	7.0	1,810	-39
MW-4R	05/08/18	1.0	11.4	7.0	915	95
MW-8	05/08/18	1.5	15.3	6.2	768	125
MW-9	05/08/18	3.0	12.3	5.7	52	218
MW-10	05/08/18	8.0	13.4	6.1	77	228
MW-11	05/08/18	5.5	12.1	5.7	126	219
MW-13	05/08/18	2.0	16.4	6.3	663	178
MW-14	05/08/18	4.5	16.7	6.5	202	210
MW-15	05/08/18	1.5	17.5	6.4	1,900	126
EW-1R	05/09/18	<1.0	12.5	7.1	2,200	-27
EW-2	05/09/18	3.5	15.9	7.6	212	20

ATTACHMENT A

May 18, 2018

Ms. Sara Giordano
Insite Group, Inc.
611 S. Irvine Ave.
Sharon, PA 16146

RE: Project: Valley Village - QTR
Pace Project No.: 30252655

Dear Ms. Giordano:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Insite Group, Insite Group, Inc.
Kristin Kelly, Insite Group



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Valley Village - QTR
Pace Project No.: 30252655

Pennsylvania Certification IDs

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
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Valley Village - QTR

Pace Project No.: 30252655

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30252655001	MW-1R	EPA 8260B	JAS	13	PASI-PA
30252655002	MW-3R	EPA 8260B	JAS	13	PASI-PA
30252655003	MW-4R	EPA 8260B	JAS	13	PASI-PA
30252655004	MW-8	EPA 8260B	JAS	13	PASI-PA
30252655005	MW-9	EPA 8260B	JAS	13	PASI-PA
30252655006	MW-10	EPA 8260B	JAS	13	PASI-PA
30252655007	MW-11	EPA 8260B	JAS	13	PASI-PA
30252655008	MW-13	EPA 8260B	JAS	13	PASI-PA
30252655009	MW-14	EPA 8260B	JAS	13	PASI-PA
30252655010	MW-15	EPA 8260B	JAS	13	PASI-PA
30252655011	MW-51	EPA 8260B	JAS	13	PASI-PA
30252655012	EW-1R	EPA 8260B	JAS	13	PASI-PA
30252655013	EW-2	EPA 8260B	JAS	13	PASI-PA
30252655014	SL-3	EPA 8260B	JAS	13	PASI-PA
30252655015	SL-4	EPA 8260B	JAS	13	PASI-PA
30252655016	Trip Blank	EPA 8260B	JAS	13	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-1R **Lab ID: 30252655001** Collected: 05/08/18 11:24 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	3.1	ug/L	1.0	1		05/15/18 01:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 01:37	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 01:37	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 01:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 01:37	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 01:37	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 01:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 01:37	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 01:37	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1		05/15/18 01:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	79-129	1		05/15/18 01:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		05/15/18 01:37	17060-07-0	
Dibromofluoromethane (S)	106	%	80-120	1		05/15/18 01:37	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-3R **Lab ID: 30252655002** Collected: 05/09/18 10:43 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	394	ug/L	1.0	1		05/15/18 07:02	71-43-2	
Ethylbenzene	1080	ug/L	10.0	10		05/15/18 07:40	100-41-4	
Isopropylbenzene (Cumene)	49.7	ug/L	1.0	1		05/15/18 07:02	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 07:02	1634-04-4	
Naphthalene	95.4	ug/L	2.0	1		05/15/18 07:02	91-20-3	
Toluene	52.4	ug/L	1.0	1		05/15/18 07:02	108-88-3	
1,2,4-Trimethylbenzene	857	ug/L	10.0	10		05/15/18 07:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 07:02	108-67-8	
Xylene (Total)	1550	ug/L	30.0	10		05/15/18 07:40	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1		05/15/18 07:02	2037-26-5	
4-Bromofluorobenzene (S)	97	%	79-129	1		05/15/18 07:02	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120	1		05/15/18 07:02	17060-07-0	
Dibromofluoromethane (S)	97	%	80-120	1		05/15/18 07:02	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-4R **Lab ID: 30252655003** Collected: 05/08/18 15:35 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 02:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 02:04	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 02:04	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 02:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 02:04	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 02:04	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:04	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 02:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1		05/15/18 02:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	79-129	1		05/15/18 02:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		05/15/18 02:04	17060-07-0	
Dibromofluoromethane (S)	98	%	80-120	1		05/15/18 02:04	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-8 **Lab ID: 30252655004** Collected: 05/08/18 14:57 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	2550	ug/L	10.0	10		05/15/18 08:34	71-43-2	
Ethylbenzene	83.7	ug/L	1.0	1		05/15/18 08:07	100-41-4	
Isopropylbenzene (Cumene)	32.3	ug/L	1.0	1		05/15/18 08:07	98-82-8	
Methyl-tert-butyl ether	42.8	ug/L	1.0	1		05/15/18 08:07	1634-04-4	
Naphthalene	11.4	ug/L	2.0	1		05/15/18 08:07	91-20-3	
Toluene	26.7	ug/L	1.0	1		05/15/18 08:07	108-88-3	
1,2,4-Trimethylbenzene	13.2	ug/L	1.0	1		05/15/18 08:07	95-63-6	
1,3,5-Trimethylbenzene	1.2	ug/L	1.0	1		05/15/18 08:07	108-67-8	
Xylene (Total)	41.5	ug/L	3.0	1		05/15/18 08:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	80-120	1		05/15/18 08:07	2037-26-5	
4-Bromofluorobenzene (S)	94	%	79-129	1		05/15/18 08:07	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120	1		05/15/18 08:07	17060-07-0	
Dibromofluoromethane (S)	96	%	80-120	1		05/15/18 08:07	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-9 **Lab ID: 30252655005** Collected: 05/08/18 13:23 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 02:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 02:31	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 02:31	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 02:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 02:31	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 02:31	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:31	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 02:31	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1		05/15/18 02:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	79-129	1		05/15/18 02:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		05/15/18 02:31	17060-07-0	
Dibromofluoromethane (S)	100	%	80-120	1		05/15/18 02:31	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-10 **Lab ID: 30252655006** Collected: 05/08/18 12:45 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 02:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 02:58	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 02:58	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 02:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 02:58	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 02:58	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 02:58	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 02:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	80-120	1		05/15/18 02:58	2037-26-5	
4-Bromofluorobenzene (S)	92	%	79-129	1		05/15/18 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		05/15/18 02:58	17060-07-0	
Dibromofluoromethane (S)	105	%	80-120	1		05/15/18 02:58	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-11 **Lab ID: 30252655007** Collected: 05/08/18 12:18 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 03:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 03:25	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 03:25	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 03:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 03:25	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 03:25	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 03:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 03:25	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 03:25	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		05/15/18 03:25	2037-26-5	
4-Bromofluorobenzene (S)	92	%	79-129	1		05/15/18 03:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120	1		05/15/18 03:25	17060-07-0	
Dibromofluoromethane (S)	102	%	80-120	1		05/15/18 03:25	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-13 **Lab ID: 30252655008** Collected: 05/08/18 14:25 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	3.8	ug/L	1.0	1		05/15/18 03:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 03:52	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 03:52	98-82-8	
Methyl-tert-butyl ether	66.7	ug/L	1.0	1		05/15/18 03:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 03:52	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 03:52	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 03:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 03:52	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 03:52	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		05/15/18 03:52	2037-26-5	
4-Bromofluorobenzene (S)	97	%	79-129	1		05/15/18 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		05/15/18 03:52	17060-07-0	
Dibromofluoromethane (S)	102	%	80-120	1		05/15/18 03:52	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-14 **Lab ID: 30252655009** Collected: 05/08/18 13:48 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Analytical Method: EPA 8260B								
Benzene	ND	ug/L	1.0	1		05/15/18 04:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 04:20	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 04:20	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 04:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 04:20	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 04:20	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 04:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 04:20	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 04:20	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1		05/15/18 04:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%	79-129	1		05/15/18 04:20	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	80-120	1		05/15/18 04:20	17060-07-0	
Dibromofluoromethane (S)	108	%	80-120	1		05/15/18 04:20	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-15 **Lab ID:** 30252655010 **Collected:** 05/08/18 16:04 **Received:** 05/11/18 10:50 **Matrix:** Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	23.9	ug/L	1.0	1		05/15/18 04:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 04:47	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 04:47	98-82-8	
Methyl-tert-butyl ether	1.2	ug/L	1.0	1		05/15/18 04:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 04:47	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 04:47	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 04:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 04:47	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 04:47	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		05/15/18 04:47	2037-26-5	
4-Bromofluorobenzene (S)	95	%	79-129	1		05/15/18 04:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		05/15/18 04:47	17060-07-0	
Dibromofluoromethane (S)	94	%	80-120	1		05/15/18 04:47	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: MW-51 **Lab ID: 30252655011** Collected: 05/08/18 09:00 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	356	ug/L	1.0	1		05/15/18 09:01	71-43-2	
Ethylbenzene	1120	ug/L	10.0	10		05/15/18 09:28	100-41-4	
Isopropylbenzene (Cumene)	42.2	ug/L	1.0	1		05/15/18 09:01	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 09:01	1634-04-4	
Naphthalene	82.5	ug/L	2.0	1		05/15/18 09:01	91-20-3	
Toluene	43.7	ug/L	1.0	1		05/15/18 09:01	108-88-3	
1,2,4-Trimethylbenzene	923	ug/L	10.0	10		05/15/18 09:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 09:01	108-67-8	
Xylene (Total)	1540	ug/L	30.0	10		05/15/18 09:28	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		05/15/18 09:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%	79-129	1		05/15/18 09:01	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-120	1		05/15/18 09:01	17060-07-0	
Dibromofluoromethane (S)	102	%	80-120	1		05/15/18 09:01	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: EW-1R **Lab ID: 30252655012** Collected: 05/09/18 11:56 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	249	ug/L	1.0	1		05/15/18 09:55	71-43-2	
Ethylbenzene	1520	ug/L	10.0	10		05/15/18 10:22	100-41-4	
Isopropylbenzene (Cumene)	89.3	ug/L	1.0	1		05/15/18 09:55	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 09:55	1634-04-4	
Naphthalene	116	ug/L	2.0	1		05/15/18 09:55	91-20-3	
Toluene	18.3	ug/L	1.0	1		05/15/18 09:55	108-88-3	
1,2,4-Trimethylbenzene	1490	ug/L	10.0	10		05/15/18 10:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 09:55	108-67-8	
Xylene (Total)	1600	ug/L	30.0	10		05/15/18 10:22	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1		05/15/18 09:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%	79-129	1		05/15/18 09:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		05/15/18 09:55	17060-07-0	
Dibromofluoromethane (S)	99	%	80-120	1		05/15/18 09:55	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: EW-2 **Lab ID: 30252655013** Collected: 05/09/18 11:24 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 05:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 05:14	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 05:14	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 05:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 05:14	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 05:14	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 05:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 05:14	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 05:14	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1		05/15/18 05:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	79-129	1		05/15/18 05:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		05/15/18 05:14	17060-07-0	
Dibromofluoromethane (S)	102	%	80-120	1		05/15/18 05:14	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: SL-3 **Lab ID: 30252655014** Collected: 05/09/18 10:19 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	46.8	ug/L	1.0	1		05/15/18 06:35	71-43-2	
Ethylbenzene	83.5	ug/L	1.0	1		05/15/18 06:35	100-41-4	
Isopropylbenzene (Cumene)	4.5	ug/L	1.0	1		05/15/18 06:35	98-82-8	
Methyl-tert-butyl ether	9.3	ug/L	1.0	1		05/15/18 06:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 06:35	91-20-3	
Toluene	3.1	ug/L	1.0	1		05/15/18 06:35	108-88-3	
1,2,4-Trimethylbenzene	10.2	ug/L	1.0	1		05/15/18 06:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 06:35	108-67-8	
Xylene (Total)	3.4	ug/L	3.0	1		05/15/18 06:35	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1		05/15/18 06:35	2037-26-5	
4-Bromofluorobenzene (S)	95	%	79-129	1		05/15/18 06:35	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120	1		05/15/18 06:35	17060-07-0	
Dibromofluoromethane (S)	102	%	80-120	1		05/15/18 06:35	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: SL-4 **Lab ID: 30252655015** Collected: 05/09/18 09:46 Received: 05/11/18 10:50 Matrix: Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 05:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 05:41	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 05:41	98-82-8	
Methyl-tert-butyl ether	4.9	ug/L	1.0	1		05/15/18 05:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 05:41	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 05:41	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 05:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 05:41	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 05:41	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	80-120	1		05/15/18 05:41	2037-26-5	
4-Bromofluorobenzene (S)	92	%	79-129	1		05/15/18 05:41	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		05/15/18 05:41	17060-07-0	
Dibromofluoromethane (S)	103	%	80-120	1		05/15/18 05:41	1868-53-7	

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ANALYTICAL RESULTS

Project: Valley Village - QTR

Pace Project No.: 30252655

Sample: Trip Blank **Lab ID:** 30252655016 **Collected:** 05/09/18 09:46 **Received:** 05/11/18 10:50 **Matrix:** Water

Comments: • All sample vials have headspace.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	1.0	1		05/15/18 01:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		05/15/18 01:10	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		05/15/18 01:10	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/15/18 01:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		05/15/18 01:10	91-20-3	
Toluene	ND	ug/L	1.0	1		05/15/18 01:10	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 01:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		05/15/18 01:10	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		05/15/18 01:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		05/15/18 01:10	2037-26-5	
4-Bromofluorobenzene (S)	91	%	79-129	1		05/15/18 01:10	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		05/15/18 01:10	17060-07-0	
Dibromofluoromethane (S)	101	%	80-120	1		05/15/18 01:10	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Valley Village - QTR
Pace Project No.: 30252655

QC Batch:	298284	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	30252655001, 30252655002, 30252655003, 30252655004, 30252655005, 30252655006, 30252655007, 30252655008, 30252655009, 30252655010, 30252655011, 30252655012, 30252655013, 30252655014, 30252655015, 30252655016		

METHOD BLANK: 1460403 Matrix: Water

Associated Lab Samples: 30252655001, 30252655002, 30252655003, 30252655004, 30252655005, 30252655006, 30252655007, 30252655008, 30252655009, 30252655010, 30252655011, 30252655012, 30252655013, 30252655014, 30252655015, 30252655016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/15/18 00:16	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/15/18 00:16	
Benzene	ug/L	ND	1.0	05/15/18 00:16	
Ethylbenzene	ug/L	ND	1.0	05/15/18 00:16	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/15/18 00:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/15/18 00:16	
Naphthalene	ug/L	ND	2.0	05/15/18 00:16	
Toluene	ug/L	ND	1.0	05/15/18 00:16	
Xylene (Total)	ug/L	ND	3.0	05/15/18 00:16	
1,2-Dichloroethane-d4 (S)	%	96	80-120	05/15/18 00:16	
4-Bromofluorobenzene (S)	%	90	79-129	05/15/18 00:16	
Dibromofluoromethane (S)	%	101	80-120	05/15/18 00:16	
Toluene-d8 (S)	%	99	80-120	05/15/18 00:16	

LABORATORY CONTROL SAMPLE: 1460404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.3	106	70-130	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	70-130	
Benzene	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	22.2	111	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.0	110	70-130	
Methyl-tert-butyl ether	ug/L	20	20.8	104	70-130	
Naphthalene	ug/L	20	21.9	109	70-130	
Toluene	ug/L	20	21.7	108	70-130	
Xylene (Total)	ug/L	60	63.6	106	70-130	
1,2-Dichloroethane-d4 (S)	%			88	80-120	
4-Bromofluorobenzene (S)	%			91	79-129	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Valley Village - QTR

Pace Project No.: 30252655

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1461818 1461819											
Parameter	Units	30252655001		MS	MSD	MS		MS	MSD	% Rec	RPD
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	22.6	23.5	113	118	75-125	4
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	24.0	23.9	120	119	76-121	1
Benzene	ug/L	3.1	20	20	20	24.5	24.0	107	105	67-121	2
Ethylbenzene	ug/L	ND	20	20	20	24.9	21.9	125	110	70-127	13
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	24.0	24.1	120	121	80-122	1
Methyl-tert-butyl ether	ug/L	ND	20	20	20	22.8	21.5	114	107	79-135	6
Naphthalene	ug/L	ND	20	20	20	21.8	21.7	109	108	62-131	1
Toluene	ug/L	ND	20	20	20	23.4	21.5	117	107	77-125	8
Xylene (Total)	ug/L	ND	60	60	60	70.5	66.2	117	110	69-128	6
1,2-Dichloroethane-d4 (S)	%							120	118	80-120	
4-Bromofluorobenzene (S)	%							97	97	79-129	
Dibromofluoromethane (S)	%							109	104	80-120	
Toluene-d8 (S)	%							100	92	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Valley Village - QTR
Pace Project No.: 30252655

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Valley Village - QTR

Pace Project No.: 30252655

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30252655001	MW-1R	EPA 8260B	298284		
30252655002	MW-3R	EPA 8260B	298284		
30252655003	MW-4R	EPA 8260B	298284		
30252655004	MW-8	EPA 8260B	298284		
30252655005	MW-9	EPA 8260B	298284		
30252655006	MW-10	EPA 8260B	298284		
30252655007	MW-11	EPA 8260B	298284		
30252655008	MW-13	EPA 8260B	298284		
30252655009	MW-14	EPA 8260B	298284		
30252655010	MW-15	EPA 8260B	298284		
30252655011	MW-51	EPA 8260B	298284		
30252655012	EW-1R	EPA 8260B	298284		
30252655013	EW-2	EPA 8260B	298284		
30252655014	SL-3	EPA 8260B	298284		
30252655015	SL-4	EPA 8260B	298284		
30252655016	Trip Blank	EPA 8260B	298284		

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: Insite Group

Project # 30252655

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

Tracking #: 70160 2538 7446

Label	<u>BTH</u>
LIMS Login	<u>NS</u>

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

Thermometer Used 7 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 5.5 °C Correction Factor: -0.1 °C Final Temp: 5.4 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
Chain of Custody Present:	☒	☐	☐	<u>N-A</u>	<u>BTH 5-11-18</u>
Chain of Custody Filled Out:	☒	☐	☐		
Chain of Custody Relinquished:	☒	☐	☐		
Sampler Name & Signature on COC:	☒	☐	☐		
Sample Labels match COC:	☒	☐	☐		
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	☒	☐	☐		
Short Hold Time Analysis (<72hr remaining):	☐	☒	☐		
Rush Turn Around Time Requested:	☐	☒	☐		
Sufficient Volume:	☒	☐	☐		
Correct Containers Used:	☒	☐	☐		
-Pace Containers Used:	☒	☐	☐		
Containers Intact:	☒	☐	☐		
Orthophosphate field filtered	☐	☐	☒		
Hex Cr Aqueous Compliance/NPDES sample field filtered	☐	☐	☒		
Organic Samples checked for dechlorination:	☐	☐	☒		
Filtered volume received for Dissolved tests	☐	☐	☒		
All containers have been checked for preservation.	☐	☐	☒		
All containers needing preservation are found to be in compliance with EPA recommendation.	☐	☐	☒		
exceptions: <u>VOA</u> , coliform, TOC, O&G, Phenolics				Initial when completed <u>BTH</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	☒	☐	☐		
Trip Blank Present:	☒	☐	☐		
Trip Blank Custody Seals Present	☒	☐	☐		
Rad Aqueous Samples Screened > 0.5 mrem/hr	☐	☐	☒	Initial when completed <u>BTH</u>	Date: <u>5-11-18</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

all vials have headspace

☐ A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.