



December 7, 2021

Mr. Justin Starr  
Project Manager  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233-7014

Re: Report – Fourth Post-Remediation Groundwater Sampling Event – September 2021  
RG&E Pavilion Former MGP Site  
6903 Ellicott Street Road  
Town of Pavilion, Genesee County, New York 14525  
NYSDEC Site No. 819024

Dear Mr. Starr:

The purpose of this report is to present the results of the fourth (4<sup>th</sup>) post-remediation groundwater sampling event completed at the Rochester Gas and Electric Corporation (RG&E) Pavilion Former Manufactured Gas Plant (MGP) site [New York State Department of Environmental Conservation (NYSDEC) Site No. 819024], located at 6903 Ellicott Street Road in the Town of Pavilion, Genesee County, New York (referred to herein as the “Site”). The groundwater sampling event was completed by NEU-VELLE, LLC (NEU-VELLE) personnel in accordance with the SMP (June 2020).

## **SCOPE OF WORK**

### **Synoptic Water Levels**

A Site-wide round of synoptic groundwater levels was collected from the five (5) on-site groundwater monitoring wells on September 17, 2021. The locations of these monitoring wells are depicted on the attached **Figure 1**. Each well was also gauged for the presence of Non-aqueous Phase Liquid (NAPL) using an oil/water interface probe. NAPL was not detected in any of the wells. The well gauging observations and field measurements are summarized in **Table 1**.

### **Groundwater Sampling**

On March 22 and 23, 2021, groundwater samples were collected from the five (5) on-Site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, and MW-5). Groundwater samples were collected using low-flow methods.

Prior to initiating purging, field personnel donned new nitrile gloves, and care was taken to avoid introducing contaminants into the groundwater monitoring wells. Low-flow purging was conducted using an appropriately decontaminated stainless-steel bladder pump equipped with a polyethylene bladder and polyethylene tubing. A new, clean bladder and new, clean tubing were used at each groundwater monitoring well. During purging, parameters [time, water table elevation, pumping (flow) rate, temperature, dissolved oxygen (DO), oxidation/reduction potential (ORP), pH, turbidity, and specific conductance] were measured using calibrated field monitoring equipment and the readings were recorded on field logs.

The well information, sample information, monitoring parameters, and field observations were recorded on a ground water sample log that was completed at each sampling location. The groundwater sampling logs are provided as **Attachment A**.

### **Collection of Laboratory Samples**

New nitrile gloves were donned by field personnel prior to the collection of each groundwater sample. The laboratory samples were collected in laboratory-supplied sample containers. Samples were preserved in a plastic cooler that was pre-chilled with ice and subsequently submitted under chain of custody protocols to Paradigm Environmental Services, Inc. (Paradigm) located in Rochester, New York. The groundwater samples were analyzed for the following:

- volatile organic compounds (VOCs), benzene, toluene, ethylbenzene, and xylene (BTEX) only, by United States Environmental Protection Agency (USEPA) Method 8260; and
- semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs) only, by USEPA Method 8270; and
- total cyanide in accordance with USEPA Method 9012.

In accordance with the understood intent of the pending SMP, the following Quality Assurance/Quality Control (QA/QC) samples were collected and analyzed:

- one (1) trip blank;
- one (1) equipment blank;
- one (1) “blind duplicate sample”;
- one (1) matrix spike (MS) sample; and
- one (1) matrix spike duplicate (MSD) sample.

### **Reporting of Results**

A copy of the laboratory analytical report, including a copy of the chain of custody forms, is presented in **Attachment B**. The laboratory analytical results, including those for the “blind duplicate sample” QA/QC sample (collected from groundwater monitoring well MW-1 during this sampling event), have been summarized in **Table 2** of this report.

### **Waste Disposal**

Purged groundwater and decontamination water were containerized in a polyethylene drum staged at the Site. This wastewater will be properly disposed at a future date, with disposal documentation to be submitted to the NYSDEC under separate cover.

## **RESULTS**

### **Analytical Results**

The groundwater sample analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Class GA standards, criteria, and guidance values (SCGs).

As summarized in **Table 2**:

- no detections of BTEX or PAHs were reported in any of the groundwater samples collected during this sampling event; and
- concentrations of total cyanide were detected in three (3) of the groundwater samples collected during this sampling event, as follows: MW-2 (0.0254 mg/L); MW-3 (0.128 mg/L); and MW-5 (0.00856 J mg/L). These reported concentrations of total cyanide in groundwater are all below the TOGS 1.1.1, Class GA SCG for total cyanide (0.2 mg/L).

The analytical results for QA/QC samples are summarized are as follows:

- no detections of BTEX, PAHs, or total cyanide were reported in the equipment blank sample;
- no detections of BTEX, PAHs, or total cyanide were reported in the “blind duplicate sample” or its “parent sample” collected from groundwater monitoring well MW-1; and
- no BTEX compounds were detected in the trip blank sample.

### **Groundwater Mapping**

A groundwater elevation contour map was prepared based upon the static water levels measured at the Site on September 17, 2021. The groundwater contour map is provided as **Figure 2**, which shows that overburden groundwater beneath the Site is interpreted to flow generally to the west, toward Oatka Creek. The findings depicted on this groundwater elevation contour map are generally consistent with previous groundwater mapping efforts associated with the Site; however, the north portion of the Site appears to have a more northerly flow direction than in recent groundwater mapping efforts.

### **CONCLUSIONS**

This report presents the results of the fourth post-remediation groundwater sampling event completed at the RG&E Pavilion Former MGP site (NYSDEC Site No. 819024).

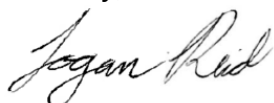
This fourth post-remediation groundwater sampling event found that BTEX and PAHs were not detected in any of the groundwater samples collected from the five (5) on-Site groundwater monitoring wells.

Concentrations of total cyanide were reported in three of the groundwater samples collected from the five (5) on-Site groundwater monitoring wells during this sampling event; however, these reported concentrations of total cyanide are below the TOGS 1.1.1, Class GA SCG for total cyanide (0.2 mg/L).

The next post-remediation groundwater monitoring event is currently scheduled for March 2022.

Please feel free to contact me at any time at (585) 478-3167 or [lreid@neu-velle.com](mailto:lreid@neu-velle.com) with any questions you may have regarding this report, or contact Mr. Jeremy Wolf, RG&E's Project Manager for the project at (585) 500-8392.

Sincerely,



Logan Reid  
NEU-VELLE, LLC

cc: Jeremy Wolf – RG&E

Attachments:

Table 1 – Monitoring Well Reference Data and Groundwater Measurements

Table 2 – Groundwater Sample Analytical Results

Figure 1 – Monitoring Well Locations

Figure 2 – Groundwater Elevation Contours

Attachment A – Groundwater Sample Logs

Attachment B – Groundwater Laboratory Report and Chain of Custody Forms

**Table 1**  
**Monitoring Well Reference Data and Groundwater Measurements**

**Table 1**  
**Rochester Gas & Electric - Former MGP Site, Pavilion, NY**  
**NYSDEC Site No. 819024**  
**Monitoring Well Reference Data and Groundwater Measurements**

Well ID	TOC Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)
		3/25/2020		9/22/2020		3/22/2021		9/17/2021	
MW-1	938.12	5.22	932.90	6.89	931.23	5.88	932.24	6.68	931.44
MW-2	937.47	5.95	931.52	7.52	929.95	6.31	931.16	6.90	930.57
MW-3	936.01	4.41	931.60	6.68	929.33	5.18	930.83	4.81	931.20
MW-4A	937.64	5.09	932.55	7.31	930.33	5.83	931.81	5.78	931.86
MW-5	936.77	5.11	931.66	7.35	929.42	6.08	930.69	5.96	930.81

**Notes:**

1. Top of Casing (TOC) elevations surveyed by CT Male on December 19, 2019, FT NAVD 88.
2. Depths to water measured by NEU-VELLE on dates indicated.
3. bgs = below ground surface

**Table 2**  
**Groundwater Sample Analytical Results**

Table 2 (Page 1 of 2)  
Rochester Gas & Electric - Former MGP Site, Pavilion, NY  
NYSDEC Site No. 819024  
Groundwater Sample Analytical Results

Sample Location Sample Date Sample Identification				MW-1 3/25/2020 PAV-MW1-03252020		MW-1 9/22/2020 PAV-MW1-09222020		MW-1 3/22/2021 PAV-MW1-032221		MW-1 9/16/2021 PAV-MW1-091621		Duplicate PAV-DUP-091621		MW-2 3/27/2020 PAV-MW2-03272020		MW-2 9/24/2020 PAV-MW2-09242020		MW-2 3/23/2021 PAV-MW2-032321		MW-2 9/17/2021 PAV-MW2-091721		MW-3 3/26/2020 PAV-MW3-03262020		MW-3 9/23/2020 PAV-MW3-09232020		Duplicate PAV-DUP-09232020		MW-3 3/23/2021 PAV-MW3-032321		MW-3 9/17/2021 PAV-MW3-091721		
Analyte	Cas No.	TOGS 1.1.1 Class GA SCG	Units	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	
BTEX																																
Benzene	71-43-2	1	µg/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	
Toluene	108-88-3	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	
Ethylbenzene	100-41-4	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	
m,p-Xylene	1330-20-7	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	
o-Xylene			µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	
PAHs																																
Acenaphthene	83-32-9	20	µg/L	ND	10.0	ND	10.0	ND	M	10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Acenaphthylene	208-96-8	NS	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Anthracene	120-12-7	50	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Benzo(a)anthracene	56-55-3	0.002	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Benzo(a)pyrene	50-32-8	ND	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Benzo(b)fluoranthene	205-99-2	0.002	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Benzo(g,h,i)perylene	191-24-2	NS	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Benzo(k)fluoranthene	207-08-9	0.002	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Dibenzo(a,h)anthracene	53-70-3	NS	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Chrysene	218-01-9	0.002	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Fluoranthene	206-44-0	50	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Fluorene	86-73-7	50	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Indeno(1,2,3-cd) pyrene	193-39-5	0.002	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Naphthalene	91-20-3	10	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Phenanthrene	85-01-8	50	µg/L	ND	10.0	ND	10.0	ND		10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0
Pyrene	129-00-0	50	µg/L	ND	M, D	10.0	ND	M		10.0	ND	M	10.2	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.0	
Cyanide																																
Cyanide, Total	NA	0.2	mg/L	NT		0.0137		0.00920 JM			ND	0.0100	ND	0.0100	NT		0.0234	0.0298			0.0254		NT		0.238		0.230		0.120		0.128	

- Notes:
- µg/L = micrograms per liter
  - mg/L = milligrams per liter
  - NT = not tested, NS = No standard, and ND = non-detect
  - Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
  - M is a laboratory data qualifier indicating "Matrix spike recoveries outside QC limits. Matrix bias indicated."
  - D is a laboratory data qualifier indicating "Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit."
  - Bold Sample result** = compound was detected.
  - Gray shading indicates the sample result is above the TOGS 1.1.1 Standards, Criteria and Guidance Value.
  - J is a laboratory data qualifier indicating "Result estimated between the quantitation limit and half the quantitation limit."
  - M is a laboratory data qualifier indicating "Matrix spike recoveries outside QC limits. Matrix bias indicated."



Table 2 (Page 2 of 2)  
Rochester Gas & Electric - Former MGP Site, Pavilion, NY  
NYSDEC Site No. 819024  
Groundwater Sample Analytical Results

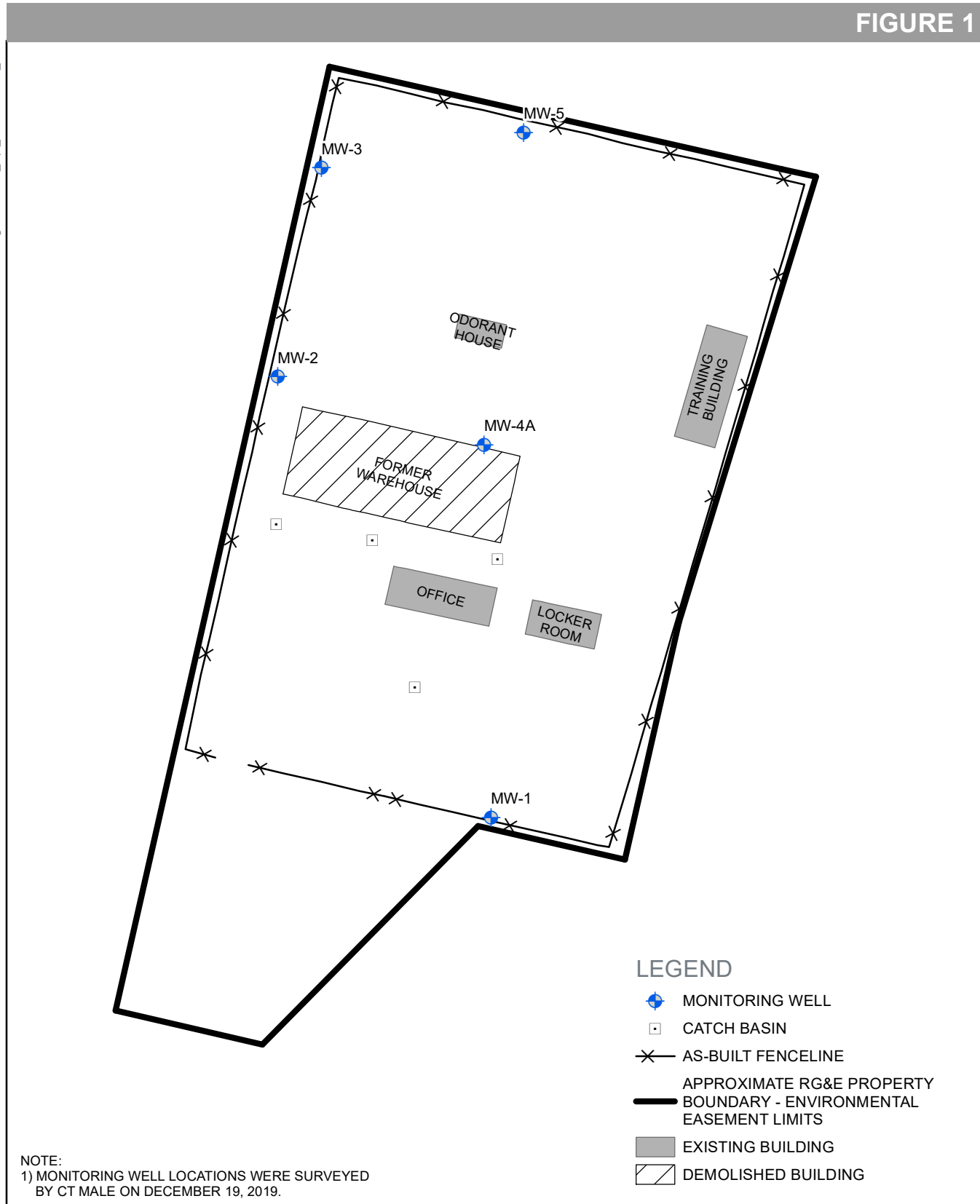
Sample Location Sample Date Sample Identification				MW-4A 3/27/2020 PAV-MW4A-03272020		MW-4A 9/24/2020 PAV-MW4-0924A2020		MW-4A 3/23/2021 PAV-MW4A-032321		MW-4A 9/20/2021 PAV-MW4A-092021		MW-5 3/26/2020 PAV-MW5-03262020		Duplicate PAV-DUP-03262020		MW-5 9/23/2020 PAV-MW5-09232020		MW-5 3/22/2021 PAV-MW5-032221		Duplicate PAV-DUP-032221		MW-5 9/16/2021 PAV-MW5-091621		EB 3/23/2021 PAV-EB-032321		EB 9/20/2021 PAV-EB-092021				
Analyte	Cas No.	TOGS 1.1.1 Class GA SCG	Units	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit	Result	Reporting Limit			
BTEX																														
Benzene	71-43-2	1	µg/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	M	1.00	ND	1.00	ND	1.00		
Toluene	108-88-3	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	M	2.00	ND	2.00	ND	2.00		
Ethylbenzene	100-41-4	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND		2.00	ND	2.00	ND	2.00		
m,p-Xylene	1330-20-7	5	µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND		2.00	ND	2.00	ND	2.00		
o-Xylene			µg/L	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND	2.00	ND		2.00	ND	2.00	ND	2.00		
PAHs																														
Acenaphthene	83-32-9	20	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Acenaphthylene	208-96-8	NS	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Anthracene	120-12-7	50	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Benzo(a)anthracene	56-55-3	0.002	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Benzo(a)pyrene	50-32-8	ND	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Benzo(b)fluoranthene	205-99-2	0.002	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Benzo(g,h,i)perylene	191-24-2	NS	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Benzo(k)fluoranthene	207-08-9	0.002	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Dibenzo(a,h)anthracene	53-70-3	NS	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Chrysene	218-01-9	0.002	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Fluoranthene	206-44-0	50	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Fluorene	86-73-7	50	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Indeno(1,2,3-cd) pyrene	193-39-5	0.002	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Naphthalene	91-20-3	10	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Phenanthrene	85-01-8	50	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Pyrene	129-00-0	50	µg/L	ND	10.0	ND	10.0	ND	10.0	ND	10.0	ND	10.1	ND	10.1	ND	10.0	ND	10.4	ND	10.4	ND	10.0	ND	10.1	ND	10.0	10.0		
Cyanide																														
Cyanide, Total	NA	0.2	mg/L	NT		ND	0.0100	0.00860	J		ND	0.0100	NT		NT		0.0103		0.00620	J		0.00580	J		0.00856	J		NT	ND	0.0100

- Notes:
- µg/L = micrograms per liter
  - mg/L = milligrams per liter
  - NT = not tested, NS = No standard, and ND = non-detect
  - Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) Ambient Water Quality Standards and Groundwater Effluent Limitations, June 1998.
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  - D is a laboratory data qualifier indicating "Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit."
  - Bold Sample result** = compound was detected.
  - Gray shading indicates the sample result is above the TOGS 1.1.1 Standards, Criteria and Guidance Value.**
  - J is a laboratory data qualifier indicating "Result estimated between the quantitation limit and half the quantitation limit."
  - M is a laboratory data qualifier indicating "Matrix spike recoveries outside QC limits. Matrix bias indicated."

**Figure 1**

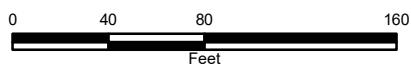
**Monitoring Well Locations**

C:\Users\ireid\Neu-Velle LLC\Public - Documents\ Clients\RG&E\Pavilion\Docs\Drawings\WXD\GW\_Rpt\_Mar2020\MW\_LOCS.mxd



ROCHESTER GAS AND ELECTRIC CORPORATION  
PAVILION FORMER MGP SITE  
6903 ELICOTT STREET ROAD  
PAVILION, NEW YORK

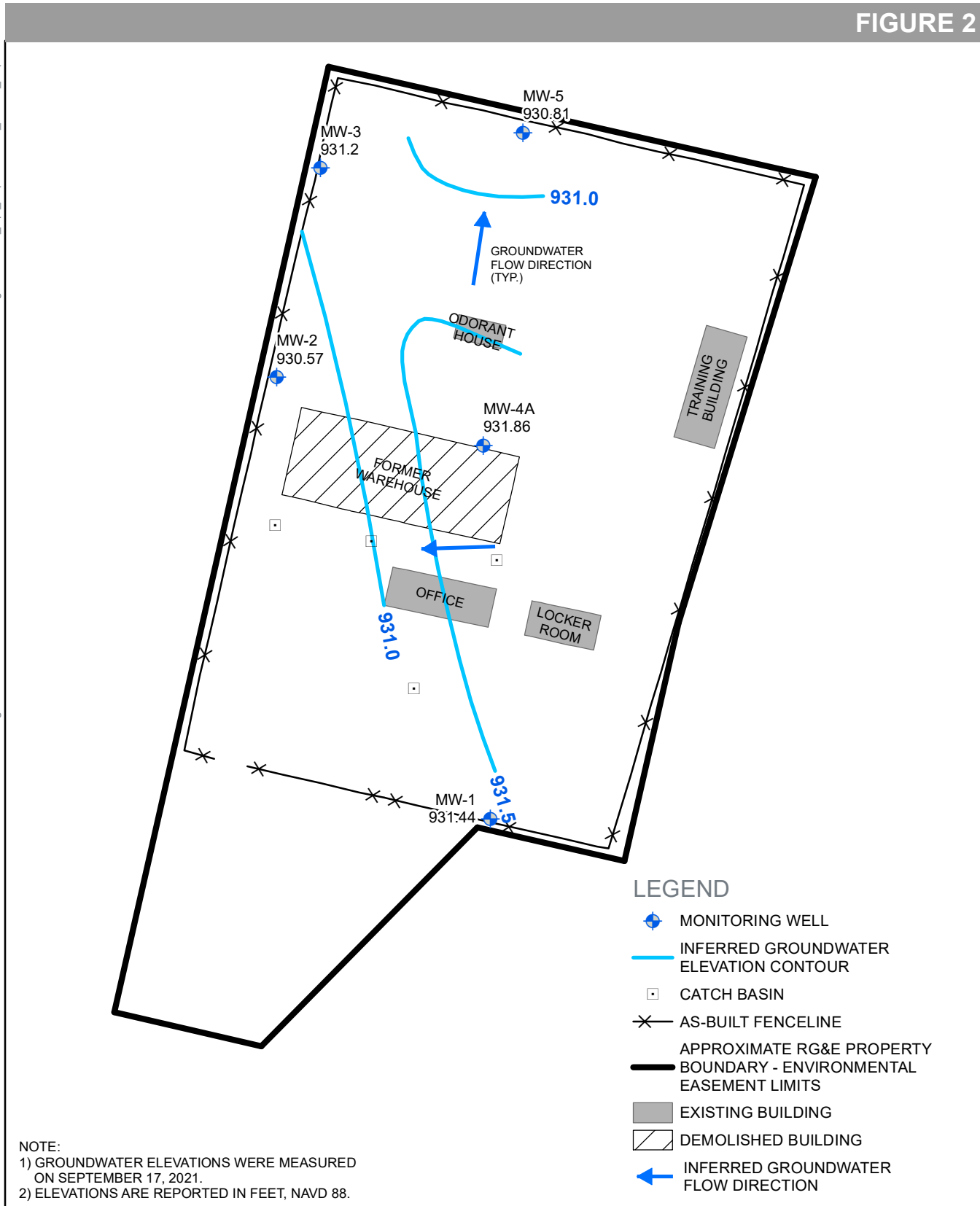
## MONITORING WELL LOCATIONS



**Figure 2**

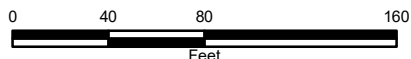
**Groundwater Elevation Contours**

C:\Users\LoganReid\Neu-Velle LLC\Public - Documents\ Clients\RG&E\Pavilion\Docs\Drawings\MXD\GW\_Rpt\_Sep2021\GW\_Ctours\_Sep2021.mxd



ROCHESTER GAS AND ELECTRIC CORPORATION  
 PAVILION FORMER MGP SITE  
 6903 ELICOTT STREET ROAD  
 PAVILION, NEW YORK

## GROUNDWATER ELEVATION CONTOURS SEPTEMBER 2021



**Attachment A**  
**Groundwater Sampling Logs**

## Low Flow Ground Water Sampling Log

**Well information:**

\* Measurements taken from

**X**

Top of Well Casing

Top of Protective Casing

(Other, Specify)

Start Purge Time: 12:00

End Purge Time: 12:25

**Water sample:**

Time collected: 12:30

**Total volume of purged water removed:**

$\pm 2.5 \text{ gal}$

Physical appearance at start

Color

Odor

Sheen/Free Product

### Physical appearance at sampling

**Color**

Odor

Sheen/Free Product

clear  
NONE  
NO

clear  
NO NR  
NO

PAV-MW5-291621" + MS/MSD

### Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	63	No	HCl	NM
250 ml	Poly		No	NaOH	NM
1 L	Amber Glass	3	No	None	NM
	KLM				



## Low Flow Ground Water Sampling Log

**Well information:**

Start Purge Time:

End Purge Time:

**Total volume of purged water removed:**

Sheen/Free Product

"PAV-MW1-091621" + "PAV-DUP-091621"

## 2021\_09 lowflowlog



## Low Flow Ground Water Sampling Log

**Well information:**

\* Measurements taken from

No  
NAPL  
9/17/21

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	2	No	HCl	NM
250 ml	Poly	1	No	NaOH	NM
1 L	Amber Glass	1	No	None	NM
	Plastic				



## Low Flow Ground Water Sampling Log

**Well information:**

\* Measurements taken from

NO NAPL  
9/17/21



## Low Flow Ground Water Sampling Log

**Well information:**

\* Measurements taken from

**X**

Top of Well Casing

Top of Protective Casing  
(Other, Specify)

2021\_09\_lowflowlog

**Attachment B**  
**Groundwater Laboratory Report and Chain of Custody Forms**





**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

*Analytical Report For*

**Neu-Velle**

*For Lab Project ID*

**214234**

*Referencing*

**Pavilion Former MGP Site**

*Prepared*

**Monday, October 4, 2021**

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in black ink, appearing to read "R. R. D. L. D.", is positioned above a horizontal line. The signature is written in a cursive, stylized font.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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*Report Prepared Monday, October 4, 2021*

Page 1 of 30

**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-MW5-091621

**Lab Sample ID:** 214234-01

**Date Sampled:** 9/16/2021

**Matrix:** Groundwater

**Date Received:** 9/20/2021

### Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 16:40
Acenaphthylene	< 10.0	ug/L		9/23/2021 16:40
Anthracene	< 10.0	ug/L		9/23/2021 16:40
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 16:40
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 16:40
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 16:40
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 16:40
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 16:40
Chrysene	< 10.0	ug/L		9/23/2021 16:40
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 16:40
Fluoranthene	< 10.0	ug/L		9/23/2021 16:40
Fluorene	< 10.0	ug/L		9/23/2021 16:40
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 16:40
Naphthalene	< 10.0	ug/L		9/23/2021 16:40
Phenanthrene	< 10.0	ug/L		9/23/2021 16:40
Pyrene	< 10.0	ug/L		9/23/2021 16:40

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	30.6	30.9 - 98.1	*	9/23/2021 16:40
Nitrobenzene-d5	50.9	49.6 - 104		9/23/2021 16:40
Terphenyl-d14	53.4	56.5 - 118	*	9/23/2021 16:40

**Method Reference(s):** EPA 8270D

EPA 3510C

**Preparation Date:** 9/22/2021

**Data File:** B57022.D

### Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L	M	9/29/2021 15:00
Ethylbenzene	< 2.00	ug/L		9/29/2021 15:00

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Lab Project ID: 214234

Client: Neu-Velle

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW5-091621

Lab Sample ID: 214234-01

Date Sampled: 9/16/2021

Matrix: Groundwater

Date Received: 9/20/2021

m,p-Xylene	< 2.00	ug/L		9/29/2021 15:00
o-Xylene	< 2.00	ug/L		9/29/2021 15:00
Toluene	< 2.00	ug/L	M	9/29/2021 15:00

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	102	83 - 120		9/29/2021 15:00
4-Bromofluorobenzene	84.8	65.5 - 118		9/29/2021 15:00
Pentafluorobenzene	118	91.2 - 109	*	9/29/2021 15:00
Toluene-D8	98.3	79.7 - 112		9/29/2021 15:00

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z04366.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	0.00856	mg/L	J	10/1/2021

Method Reference(s): SM 4500 CN E - 2011

SM 4500 CN C - 2011

Preparation Date: 10/1/2021

**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-DUP-091621

**Lab Sample ID:** 214234-02

**Date Sampled:** 9/16/2021

**Matrix:** Groundwater

**Date Received:** 9/20/2021

### Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 18:07
Acenaphthylene	< 10.0	ug/L		9/23/2021 18:07
Anthracene	< 10.0	ug/L		9/23/2021 18:07
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 18:07
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 18:07
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 18:07
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 18:07
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 18:07
Chrysene	< 10.0	ug/L		9/23/2021 18:07
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 18:07
Fluoranthene	< 10.0	ug/L		9/23/2021 18:07
Fluorene	< 10.0	ug/L		9/23/2021 18:07
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 18:07
Naphthalene	< 10.0	ug/L		9/23/2021 18:07
Phenanthrene	< 10.0	ug/L		9/23/2021 18:07
Pyrene	< 10.0	ug/L		9/23/2021 18:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	43.7	30.9 - 98.1		9/23/2021 18:07
Nitrobenzene-d5	60.6	49.6 - 104		9/23/2021 18:07
Terphenyl-d14	67.6	56.5 - 118		9/23/2021 18:07

**Method Reference(s):** EPA 8270D

EPA 3510C

**Preparation Date:** 9/22/2021

**Data File:** B57025.D

### Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 14:39
Ethylbenzene	< 2.00	ug/L		9/29/2021 14:39

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**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-DUP-091621

**Lab Sample ID:** 214234-02

**Date Sampled:** 9/16/2021

**Matrix:** Groundwater

**Date Received:** 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 14:39
o-Xylene	< 2.00	ug/L	9/29/2021 14:39
Toluene	< 2.00	ug/L	9/29/2021 14:39

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	<b>105</b>	83 - 120		9/29/2021 14:39
4-Bromofluorobenzene	<b>97.2</b>	65.5 - 118		9/29/2021 14:39
Pentafluorobenzene	<b>126</b>	91.2 - 109	*	9/29/2021 14:39
Toluene-D8	<b>108</b>	79.7 - 112		9/29/2021 14:39

**Method Reference(s):** EPA 8260C

EPA 5030C

**Data File:** z04365.D

### Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	< 0.0100	mg/L		10/1/2021

**Method Reference(s):** SM 4500 CN E - 2011

SM 4500 CN C - 2011

**Preparation Date:** 10/1/2021

**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-MW1-091621

**Lab Sample ID:** 214234-03

**Date Sampled:** 9/16/2021

**Matrix:** Groundwater

**Date Received:** 9/20/2021

### Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 18:36
Acenaphthylene	< 10.0	ug/L		9/23/2021 18:36
Anthracene	< 10.0	ug/L		9/23/2021 18:36
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 18:36
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 18:36
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 18:36
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 18:36
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 18:36
Chrysene	< 10.0	ug/L		9/23/2021 18:36
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 18:36
Fluoranthene	< 10.0	ug/L		9/23/2021 18:36
Fluorene	< 10.0	ug/L		9/23/2021 18:36
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 18:36
Naphthalene	< 10.0	ug/L		9/23/2021 18:36
Phenanthrene	< 10.0	ug/L		9/23/2021 18:36
Pyrene	< 10.0	ug/L		9/23/2021 18:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	35.5	30.9 - 98.1		9/23/2021 18:36
Nitrobenzene-d5	54.4	49.6 - 104		9/23/2021 18:36
Terphenyl-d14	41.9	56.5 - 118	*	9/23/2021 18:36

**Method Reference(s):** EPA 8270D

EPA 3510C

**Preparation Date:** 9/22/2021

**Data File:** B57026.D

### Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 14:18
Ethylbenzene	< 2.00	ug/L		9/29/2021 14:18

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Lab Project ID: 214234

Client: Neu-Velle

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW1-091621

Lab Sample ID: 214234-03

Date Sampled: 9/16/2021

Matrix: Groundwater

Date Received: 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 14:18
o-Xylene	< 2.00	ug/L	9/29/2021 14:18
Toluene	< 2.00	ug/L	9/29/2021 14:18

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	106	83 - 120		9/29/2021 14:18
4-Bromofluorobenzene	104	65.5 - 118		9/29/2021 14:18
Pentafluorobenzene	123	91.2 - 109	*	9/29/2021 14:18
Toluene-D8	106	79.7 - 112		9/29/2021 14:18

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z04364.D

### Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	< 0.0100	mg/L		10/1/2021

Method Reference(s): SM 4500 CN E - 2011

SM 4500 CN C - 2011

Preparation Date: 10/1/2021

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Report Prepared Monday, October 4, 2021



Lab Project ID: 214234

Client: **Neu-Velle**

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW3-091721

Lab Sample ID: 214234-04

Date Sampled: 9/17/2021

Matrix: Groundwater

Date Received: 9/20/2021

**Semi-Volatile Organics (PAHs)**

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 19:05
Acenaphthylene	< 10.0	ug/L		9/23/2021 19:05
Anthracene	< 10.0	ug/L		9/23/2021 19:05
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 19:05
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 19:05
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 19:05
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 19:05
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 19:05
Chrysene	< 10.0	ug/L		9/23/2021 19:05
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 19:05
Fluoranthene	< 10.0	ug/L		9/23/2021 19:05
Fluorene	< 10.0	ug/L		9/23/2021 19:05
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 19:05
Naphthalene	< 10.0	ug/L		9/23/2021 19:05
Phenanthrene	< 10.0	ug/L		9/23/2021 19:05
Pyrene	< 10.0	ug/L		9/23/2021 19:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	42.7	30.9 - 98.1		9/23/2021 19:05
Nitrobenzene-d5	65.3	49.6 - 104		9/23/2021 19:05
Terphenyl-d14	63.6	56.5 - 118		9/23/2021 19:05

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/22/2021

Data File: B57027.D

**Volatile Organics**

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 13:57
Ethylbenzene	< 2.00	ug/L		9/29/2021 13:57

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Lab Project ID: 214234

Client: Neu-Velle

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW3-091721

Lab Sample ID: 214234-04

Date Sampled: 9/17/2021

Matrix: Groundwater

Date Received: 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 13:57
o-Xylene	< 2.00	ug/L	9/29/2021 13:57
Toluene	< 2.00	ug/L	9/29/2021 13:57

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	105	83 - 120		9/29/2021 13:57
4-Bromofluorobenzene	96.1	65.5 - 118		9/29/2021 13:57
Pentafluorobenzene	116	91.2 - 109	*	9/29/2021 13:57
Toluene-D8	102	79.7 - 112		9/29/2021 13:57

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z04363.D

### Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	0.128	mg/L		10/1/2021

Method Reference(s): SM 4500 CN E - 2011

SM 4500 CN C - 2011

Preparation Date: 10/1/2021



Lab Project ID: 214234

Client: **Neu-Velle**

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW2-091721

Lab Sample ID: 214234-05

Date Sampled: 9/17/2021

Matrix: Groundwater

Date Received: 9/20/2021

**Semi-Volatile Organics (PAHs)**

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 19:34
Acenaphthylene	< 10.0	ug/L		9/23/2021 19:34
Anthracene	< 10.0	ug/L		9/23/2021 19:34
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 19:34
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 19:34
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 19:34
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 19:34
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 19:34
Chrysene	< 10.0	ug/L		9/23/2021 19:34
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 19:34
Fluoranthene	< 10.0	ug/L		9/23/2021 19:34
Fluorene	< 10.0	ug/L		9/23/2021 19:34
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 19:34
Naphthalene	< 10.0	ug/L		9/23/2021 19:34
Phenanthrene	< 10.0	ug/L		9/23/2021 19:34
Pyrene	< 10.0	ug/L		9/23/2021 19:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	53.6	30.9 - 98.1		9/23/2021 19:34
Nitrobenzene-d5	69.8	49.6 - 104		9/23/2021 19:34
Terphenyl-d14	80.7	56.5 - 118		9/23/2021 19:34

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/22/2021

Data File: B57028.D

**Volatile Organics**

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 13:37
Ethylbenzene	< 2.00	ug/L		9/29/2021 13:37

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Lab Project ID: 214234

**Client:** Neu-Velle

**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-MW2-091721

**Lab Sample ID:** 214234-05

**Date Sampled:** 9/17/2021

**Matrix:** Groundwater

**Date Received:** 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 13:37
o-Xylene	< 2.00	ug/L	9/29/2021 13:37
Toluene	< 2.00	ug/L	9/29/2021 13:37

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	107	83 - 120		9/29/2021 13:37
4-Bromofluorobenzene	105	65.5 - 118		9/29/2021 13:37
Pentafluorobenzene	122	91.2 - 109	*	9/29/2021 13:37
Toluene-D8	107	79.7 - 112		9/29/2021 13:37

**Method Reference(s):** EPA 8260C

EPA 5030C

**Data File:** z04362.D

**Total Cyanide**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	0.0254	mg/L		10/1/2021

**Method Reference(s):** SM 4500 CN E - 2011

SM 4500 CN C - 2011

**Preparation Date:** 10/1/2021

**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-EB-092021

**Lab Sample ID:** 214234-06

**Date Sampled:** 9/20/2021

**Matrix:** Water

**Date Received:** 9/20/2021

### Semi-Volatile Organics (PAHs)

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 20:03
Acenaphthylene	< 10.0	ug/L		9/23/2021 20:03
Anthracene	< 10.0	ug/L		9/23/2021 20:03
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 20:03
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 20:03
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 20:03
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 20:03
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 20:03
Chrysene	< 10.0	ug/L		9/23/2021 20:03
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 20:03
Fluoranthene	< 10.0	ug/L		9/23/2021 20:03
Fluorene	< 10.0	ug/L		9/23/2021 20:03
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 20:03
Naphthalene	< 10.0	ug/L		9/23/2021 20:03
Phenanthrene	< 10.0	ug/L		9/23/2021 20:03
Pyrene	< 10.0	ug/L		9/23/2021 20:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	45.5	30.9 - 98.1		9/23/2021 20:03
Nitrobenzene-d5	65.3	49.6 - 104		9/23/2021 20:03
Terphenyl-d14	61.6	56.5 - 118		9/23/2021 20:03

**Method Reference(s):** EPA 8270D

EPA 3510C

**Preparation Date:** 9/22/2021

**Data File:** B57029.D

### Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 13:16
Ethylbenzene	< 2.00	ug/L		9/29/2021 13:16

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



**Lab Project ID:** 214234

**Client:** Neu-Velle
**Project Reference:** Pavilion Former MGP Site

**Sample Identifier:** PAV-EB-092021

**Lab Sample ID:** 214234-06

**Date Sampled:** 9/20/2021

**Matrix:** Water

**Date Received:** 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 13:16
o-Xylene	< 2.00	ug/L	9/29/2021 13:16
Toluene	< 2.00	ug/L	9/29/2021 13:16

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	<b>108</b>	83 - 120		9/29/2021 13:16
4-Bromofluorobenzene	<b>105</b>	65.5 - 118		9/29/2021 13:16
Pentafluorobenzene	<b>124</b>	91.2 - 109	*	9/29/2021 13:16
Toluene-D8	<b>113</b>	79.7 - 112	*	9/29/2021 13:16

**Method Reference(s):** EPA 8260C

EPA 5030C

**Data File:** z04361.D

### Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	< 0.0100	mg/L		10/1/2021

**Method Reference(s):** SM 4500 CN E - 2011

SM 4500 CN C - 2011

**Preparation Date:** 10/1/2021



Lab Project ID: 214234

Client: **Neu-Velle**

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW4A-092021

Lab Sample ID: 214234-07

Date Sampled: 9/20/2021

Matrix: Water

Date Received: 9/20/2021

**Semi-Volatile Organics (PAHs)**

Analyte	Result	Units	Qualifier	Date Analyzed
Acenaphthene	< 10.0	ug/L		9/23/2021 20:32
Acenaphthylene	< 10.0	ug/L		9/23/2021 20:32
Anthracene	< 10.0	ug/L		9/23/2021 20:32
Benzo (a) anthracene	< 10.0	ug/L		9/23/2021 20:32
Benzo (a) pyrene	< 10.0	ug/L		9/23/2021 20:32
Benzo (b) fluoranthene	< 10.0	ug/L		9/23/2021 20:32
Benzo (g,h,i) perylene	< 10.0	ug/L		9/23/2021 20:32
Benzo (k) fluoranthene	< 10.0	ug/L		9/23/2021 20:32
Chrysene	< 10.0	ug/L		9/23/2021 20:32
Dibenz (a,h) anthracene	< 10.0	ug/L		9/23/2021 20:32
Fluoranthene	< 10.0	ug/L		9/23/2021 20:32
Fluorene	< 10.0	ug/L		9/23/2021 20:32
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		9/23/2021 20:32
Naphthalene	< 10.0	ug/L		9/23/2021 20:32
Phenanthrene	< 10.0	ug/L		9/23/2021 20:32
Pyrene	< 10.0	ug/L		9/23/2021 20:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	44.6	30.9 - 98.1		9/23/2021 20:32
Nitrobenzene-d5	66.4	49.6 - 104		9/23/2021 20:32
Terphenyl-d14	76.2	56.5 - 118		9/23/2021 20:32

Method Reference(s): EPA 8270D

EPA 3510C

Preparation Date: 9/22/2021

Data File: B57030.D

**Volatile Organics**

Analyte	Result	Units	Qualifier	Date Analyzed
Benzene	< 1.00	ug/L		9/29/2021 12:55
Ethylbenzene	< 2.00	ug/L		9/29/2021 12:55

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Lab Project ID: 214234

Client: Neu-Velle

Project Reference: Pavilion Former MGP Site

Sample Identifier: PAV-MW4A-092021

Lab Sample ID: 214234-07

Date Sampled: 9/20/2021

Matrix: Water

Date Received: 9/20/2021

m,p-Xylene	< 2.00	ug/L	9/29/2021 12:55
o-Xylene	< 2.00	ug/L	9/29/2021 12:55
Toluene	< 2.00	ug/L	9/29/2021 12:55

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	<b>108</b>	83 - 120		9/29/2021 12:55
4-Bromofluorobenzene	<b>98.2</b>	65.5 - 118		9/29/2021 12:55
Pentafluorobenzene	<b>123</b>	91.2 - 109	*	9/29/2021 12:55
Toluene-D8	<b>107</b>	79.7 - 112		9/29/2021 12:55

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z04360.D

### Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	< 0.0100	mg/L		10/1/2021

Method Reference(s): SM 4500 CN E - 2011

SM 4500 CN C - 2011

Preparation Date: 10/1/2021



Lab Project ID: 214234

Client: Neu-Velle

Project Reference: Pavilion Former MGP Site

Sample Identifier: Trip Blank T1065

Lab Sample ID: 214234-08

Date Sampled: 9/13/2021

Matrix: Water

Date Received: 9/20/2021

**Volatile Organics**

<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Qualifier</b>	<b>Date Analyzed</b>
Benzene	< 1.00	ug/L		9/29/2021 12:35
Ethylbenzene	< 2.00	ug/L		9/29/2021 12:35
m,p-Xylene	< 2.00	ug/L		9/29/2021 12:35
o-Xylene	< 2.00	ug/L		9/29/2021 12:35
Toluene	< 2.00	ug/L		9/29/2021 12:35
<b>Surrogate</b>	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	<b>Date Analyzed</b>
1,2-Dichloroethane-d4	<b>106</b>	83 - 120		9/29/2021 12:35
4-Bromofluorobenzene	<b>102</b>	65.5 - 118		9/29/2021 12:35
Pentafluorobenzene	<b>118</b>	91.2 - 109	*	9/29/2021 12:35
Toluene-D8	<b>106</b>	79.7 - 112		9/29/2021 12:35

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z04359.D



***Method Blank Report***

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

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***Total Cyanide***

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<0.0100	mg/L		10/1/2021

**Method Reference(s):** SM 4500 CN E - 2011  
SM 4500 CN C - 2011  
**Preparation Date:** 10/1/2021  
**QC Batch ID:** QC211001WTCN  
**QC Number:** Blk 1



**QC Report for Laboratory Control Sample**

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

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***Total Cyanide***

<u>Analyte</u>		<u>Spike</u>	<u>Spike</u>	<u>LCS</u>	<u>LCS %</u>	<u>% Rec</u>	<u>LCS</u>	<u>Date</u>
		<u>Added</u>	<u>Units</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Analyzed</u>
Cyanide, Total		0.100	mg/L	0.0980	98.0	85 - 115		10/1/2021
<b>Method Reference(s):</b>		SM 4500 CN E - 2011 SM 4500 CN C - 2011						
<b>Preparation Date:</b>		10/1/2021						
<b>QC Number:</b>		1						
<b>QC Batch ID:</b>		QC211001WTCN						

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**QC Report for Sample Spike and Sample Duplicate**

**Client:** Neu-Velle **SDG #:** 4234-01  
**Project Reference:** Pavilion Former MGP Site **Lab Project ID:** 214234

**Lab Sample ID:** 214234-01 **Date Sampled:** 9/16/2021  
**Sample Identifier:** PAV-MW5-091621 **Date Received:** 9/20/2021  
**Matrix:** Groundwater

***Total Cyanide***

<b>Analyte</b>	<b>Sample Results</b>	<b>Result Units</b>	<b>Spike Added</b>	<b>Spike Result</b>	<b>Spike % Recovery</b>	<b>% Rec Limits</b>	<b>Spike Outliers</b>	<b>Duplicate Result</b>	<b>Relative % Difference</b>	<b>RPD Limit</b>	<b>RPD Outliers</b>	<b>Date Analyzed</b>
Cyanide, Total	0.00856	mg/L	0.100	0.102	93.6	80 - 120		0.00770	NC	20		10/1/2021
<b>Method Reference(s):</b>		SM 4500 CN E - 2011 SM 4500 CN C - 2011										
<b>Preparation Date:</b>		10/1/2021										
<b>QC Batch ID:</b>		QC211001WTCN										

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, October 4, 2021



## Method Blank Report

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

### Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
Acenaphthene	<10.0	ug/L		9/23/2021	13:16
Acenaphthylene	<10.0	ug/L		9/23/2021	13:16
Anthracene	<10.0	ug/L		9/23/2021	13:16
Benzo (a) anthracene	<10.0	ug/L		9/23/2021	13:16
Benzo (a) pyrene	<10.0	ug/L		9/23/2021	13:16
Benzo (b) fluoranthene	<10.0	ug/L		9/23/2021	13:16
Benzo (g,h,i) perylene	<10.0	ug/L		9/23/2021	13:16
Benzo (k) fluoranthene	<10.0	ug/L		9/23/2021	13:16
Chrysene	<10.0	ug/L		9/23/2021	13:16
Dibenz (a,h) anthracene	<10.0	ug/L		9/23/2021	13:16
Fluoranthene	<10.0	ug/L		9/23/2021	13:16
Fluorene	<10.0	ug/L		9/23/2021	13:16
Indeno (1,2,3-cd) pyrene	<10.0	ug/L		9/23/2021	13:16
Naphthalene	<10.0	ug/L		9/23/2021	13:16
Phenanthrene	<10.0	ug/L		9/23/2021	13:16
Pyrene	<10.0	ug/L		9/23/2021	13:16

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
2-Fluorobiphenyl	40.2	30.9 - 98.1		9/23/2021	13:16
Nitrobenzene-d5	59.7	49.6 - 104		9/23/2021	13:16
Terphenyl-d14	65.7	56.5 - 118		9/23/2021	13:16

**Method Reference(s):** EPA 8270D  
EPA 3510C  
**Preparation Date:** 9/22/2021  
**Data File:** B57015.D  
**QC Batch ID:** QC210922610W  
**QC Number:** 1





**QC Report for Laboratory Control Sample**

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

***Semi-Volatile Organics (PAHs)***

<u>Analyte</u>	<u>Spike</u> <u>Added</u>	<u>Spike</u> <u>Units</u>	<u>LCS</u> <u>Result</u>	<u>LCS %</u> <u>Recovery</u>	<u>% Rec</u> <u>Limits</u>	<u>LCS</u> <u>Outliers</u>	<u>Date</u> <u>Analyzed</u>
Acenaphthene	50.0	ug/L	34.0	68.0	51.6 - 101		9/23/2021
Pyrene	50.0	ug/L	38.4	76.8	60 - 120		9/23/2021

**Method Reference(s):** EPA 8270D  
EPA 3510C  
**Preparation Date:** 9/22/2021  
**Data File:** B57016.D  
**QC Number:** 1  
**QC Batch ID:** QC210922610W

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**QC Report for Matrix Spike and Matrix Spike Duplicate**

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site

**SDG #:** 4234-01

**Lab Project ID:** 214234

**Lab Sample ID:** 214234-01  
**Sample Identifier:** PAV-MW5-091621  
**Matrix:** Groundwater

**Date Sampled:** 9/16/2021

**Date Received:** 9/20/2021

**Date Analyzed:** 9/23/2021

***Semi-Volatile Organics (PAHs)***

	<u>Sample</u>	<u>Result</u>	<u>MS</u>	<u>MS</u>	<u>MS %</u>	<u>MSD</u>	<u>MSD</u>	<u>MSD %</u>	<u>% Rec.</u>	<u>MS</u>	<u>MSD</u>	<u>Relative</u>	<u>RPD</u>	<u>RPD</u>
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outlier</u>	<u>Outlier</u>	<u>% Diff.</u>	<u>Limit</u>	<u>Outlier</u>
Acenaphthene	< 10.0	ug/L	50.0	32.1	64.2	50.0	33.1	66.3	51.6 - 101			3.13	43.4	
Pyrene	< 10.0	ug/L	50.0	35.0	70.0	50.0	36.6	73.1	60 - 120			4.37	47.2	

**Method Reference(s):** EPA 8270D

EPA 3510C

**Preparation Date:** 9/22/2021

**Data File(s):** B57023.D

B57024.D

B57022.D

1

**QC Batch ID:** QC210922610W

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.  
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***Method Blank Report***

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

***Volatile Organics***

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
Benzene	<1.00	ug/L		9/29/2021	12:14
Ethylbenzene	<2.00	ug/L		9/29/2021	12:14
m,p-Xylene	<2.00	ug/L		9/29/2021	12:14
o-Xylene	<2.00	ug/L		9/29/2021	12:14
Toluene	<2.00	ug/L		9/29/2021	12:14

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	<b>106</b>	83 - 120		9/29/2021	12:14
4-Bromofluorobenzene	<b>108</b>	65.5 - 118		9/29/2021	12:14
Pentafluorobenzene	<b>107</b>	91.2 - 109		9/29/2021	12:14
Toluene-D8	<b>98.9</b>	79.7 - 112		9/29/2021	12:14

**Method Reference(s):** EPA 8260C  
EPA 5030C  
**Data File:** z04358.D  
**QC Batch ID:** voaq210929  
**QC Number:** Blk 1



**QC Report for Laboratory Control Sample**

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site  
**Lab Project ID:** 214234  
**SDG #:** 4234-01  
**Matrix:** Groundwater

***Volatile Organics***

<u>Analyte</u>	<u>Spike</u> <u>Added</u>	<u>Spike</u> <u>Units</u>	<u>LCS</u> <u>Result</u>	<u>LCS %</u> <u>Recovery</u>	<u>% Rec</u> <u>Limits</u>	<u>LCS</u> <u>Outliers</u>	<u>Date</u> <u>Analyzed</u>
Benzene	20.0	ug/L	20.9	104	87.6 - 106		9/29/2021
Ethylbenzene	20.0	ug/L	19.0	94.9	81.5 - 105		9/29/2021
Toluene	20.0	ug/L	20.7	103	78.6 - 106		9/29/2021

**Method Reference(s):** EPA 8260C  
EPA 5030C  
**Data File:** z04369.D  
**QC Number:** LCS 1  
**QC Batch ID:** voaq210929

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**QC Report for Matrix Spike and Matrix Spike Duplicate**

**Client:** Neu-Velle  
**Project Reference:** Pavilion Former MGP Site

**SDG #:** 4234-01  
**Lab Project ID:** 214234

**Lab Sample ID:** 214234-01  
**Sample Identifier:** PAV-MW5-091621  
**Matrix:** Groundwater

**Date Sampled:** 9/16/2021  
**Date Received:** 9/20/2021  
**Date Analyzed:** 9/29/2021

**Volatile Organics**

	<u>Sample</u>	<u>Result</u>	<u>MS</u>	<u>MS</u>	<u>MS %</u>	<u>MSD</u>	<u>MSD</u>	<u>MSD %</u>	<u>% Rec.</u>	<u>MS</u>	<u>MSD</u>	<u>Relative</u>	<u>RPD</u>	<u>RPD</u>
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outlier</u>	<u>Outlier</u>	<u>% Diff.</u>	<u>Limit</u>	<u>Outlier</u>
Benzene	< 1.00	ug/L	50.0	57.0	114	50.0	56.2	112	87.6 - 106	*	*	1.50	10	
Ethylbenzene	< 2.00	ug/L	50.0	49.1	98.2	50.0	50.6	101	81.5 - 105			2.94	12.5	
Toluene	< 2.00	ug/L	50.0	55.7	111	50.0	53.1	106	78.6 - 106	*	*	4.83	12.6	

**Method Reference(s):** EPA 8260C  
EPA 5030C  
**Data File(s):** z04367.D  
z04368.D  
z04366.D  
1  
**QC Batch ID:** voaq210929

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.  
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## Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

*"<" = Analyzed for but not detected at or above the quantitation limit.*

*"E" = Result has been estimated, calibration limit exceeded.*

*"Z" = See case narrative.*

*"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.*

*"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.*

*"B" = Method blank contained trace levels of analyte. Refer to included method blank report.*

*"J" = Result estimated between the quantitation limit and half the quantitation limit.*

*"L" = Laboratory Control Sample recovery outside accepted QC limits.*

*"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.*

*"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.*

*"\*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

*"(1)" = Indicates data from primary column used for QC calculation.*

*"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.*

*"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

# GENERAL TERMS AND CONDITIONS

## LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

### Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

### Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

### Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

### Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

### Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

### Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

### Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

### Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

### Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

### Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Turnaround Time		Report Supplements	
Availability contingent upon lab approval; additional fees may apply.			
Standard 5 day	<input type="checkbox"/>	None Required	<input type="checkbox"/>
10 day	<input checked="" type="checkbox"/>	Batch QC	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input checked="" type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>		
Date Needed _____		Other	<input type="checkbox"/>
please indicate date needed:		please indicate package needed:	
_____		_____	

Kyle R. Miller <sup>16:17, 4</sup> 9/20/2021 <sup>Multipail</sup> N/A custody seals  
 Client delivered

Sampled By	Date/Time	Total Cost:
KR Miller	9/20/21 16:15	
Relinquished By	Date/Time	
[Signature]	9/20/21 16:15	
Received By	Date/Time	P.I.F.
Multipail	9/20/21 16:22	
Received @ Lab By	Date/Time	

**By signing this form, client agrees to Paradigm Terms and Conditions (reverse).**

See additional page for sample conditions.



Table 2 Parameters, Laboratory Limits, and Regulatory Limits for Groundwater Sampling

KLM

Target Analyte	Units	Laboratory Water QLs	Laboratory Water MDLs	NYSDEC TOGS 1.1.1 Class GA Standards and Guidance Values (µg/L)
<b>VOCs (BTEX only)</b>				
Benzene	µg/L	0.7	0.225	1
Ethylbenzene	µg/L	2.0	0.390	5
m-Xylene and p-Xylene	µg/L	2.0	0.921	5
o-Xylene (1,2-xylene)	µg/L	2.0	0.561	5
Toluene	µg/L	2.0	0.507	5
<b>SVOCs (PAHs only)</b>				
2-Methylnaphthalene	µg/L	10	TBD	NC
Acenaphthene	µg/L	10.0	1.91	20
Acenaphthylene	µg/L	10.0	1.96	NC
Anthracene	µg/L	10.0	1.68	50
Benz(a)anthracene	µg/L	10.0	1.73	0.002
Benzo(a)pyrene	µg/L	10.0	1.56	ND
Benzo(b)fluoranthene	µg/L	10.0	1.57	0.002
Benzo(g,h,i)perylene	µg/L	10.0	1.05	NC
Benzo(k)fluoranthene	µg/L	10.0	1.75	0.002
Chrysene	µg/L	10.0	1.54	0.002
Dibenz(a,h)anthracene	µg/L	10.0	1.39	NC
Fluoranthene	µg/L	10.0	1.59	50
Fluorene	µg/L	10.0	1.92	50
Indeno(1,2,3-cd)pyrene	µg/L	10.0	2.40	0.002
Naphthalene	µg/L	10.0	1.80	10
Phenanthrene	µg/L	10.0	1.71	50
Pyrene	µg/L	10.0	1.67	50

**Notes:**

1. QLs indicates quantitation limits.
2. MDLs indicate method detection limits.
3. µg/L indicates microgram per liter.
4. mg/L indicates milligram per liter.
5. MDLs and QLs provided by Paradigm, current as of April 2019.
6. NA indicates not applicable.
7. VOCs indicates volatile organic compounds (via United States Environmental Protection Agency [USEPA] Method 8260).
8. SVOCs indicates semi-volatile organic compounds via USEPA Method 8270.
9. TBD indicates MDL and QL are to be determined.

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## Chain of Custody Supplement

Client: Neu-velle

Completed by: Molly Nail

Lab Project ID: 214234

Date: 9/20/21

### Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	<i>NELAC compliance with the sample condition requirements upon receipt</i>		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	<hr/>		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/> <u>6°C</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<hr/>		