June 2025
Monthly Compliance Report

Solid Waste Permit No. 588
Bristol Integrated Solid Waste Management Facility
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02218208.05-37 | July 10, 2025

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INTRODUCTION

On behalf of the City of Bristol, Virginia (City), SCS Engineers has prepared this report to the Virginia Department of Environmental Quality (VDEQ) in accordance with Item 8.iii in Appendix A of the Consent Decree between the City and VDEQ. This report provides updates regarding the progress towards completion of the items outlined in Appendix A of the Consent Decree between the City and VDEQ. The following sections outline progress during the month of June 2025 related to Solid Waste Permit (SWP) No. 588.

1.0 GAS COLLECTION

The following sections describe the steps the City, in collaboration with its consultants and contractors, has taken to improve the operation, monitoring, and performance of the facility's landfill gas collection and control system (GCCS).

1.1 SURFACE AND LEACHATE COLLECTION EMISSIONS

1.1.1 Surface Emissions

SCS performed surface emissions monitoring on June 2, 2025; June 11, 2025; June 16, 2025; and June 24, 2025. These weekly surface emissions monitoring (SEM) events were performed in accordance with Item 1.i in Appendix A of the Consent Decree between the City and VDEQ. SCS also performs quarterly SEM at the landfill in accordance with regulatory requirements.

The details and results of the SEM are included in Appendix A. A summary of the outcomes is provided in Table 1.

Table 1. Summary of June Surface Emissions Monitoring

Description	June 2, 2025	June 11, 2025	June 16, 2025	June 24, 2025
Number of Points Sampled	168	168	168	168
Number of Points in Serpentine Route	100	100	100	100
Number of Points at Surface Cover Penetrations	68	68	68	68
Number of Exceedances	3	4	3	4
Number of Serpentine Exceedances	0	0	0	0
Number of Pipe Penetration Exceedances	3	4	3	4

In response to the SEM results, the City and the City's operations, monitoring, and maintenance contractor, SCS Field Services O&M (SCS-FS or SCS-FS) took the following actions:

- In response to a pipe penetration exceedance at EW-76, SCS-FS increased the vacuum at EW-76. Monitoring of this well during a follow-up event did not result in an exceedance.

- In response to a pipe penetration exceedance at EW-82, SCS-FS increased the vacuum at EW-82. Monitoring of this well during a follow-up event did not result in an exceedance.

- Pipe penetration exceedances occurred on June 24, 2025 at EW-49 and EW-51. SCS-FS identified low available vacuum at these two locations. SCS-FS plans to conduct further field investigations on the low available vacuum during the week of July 7, 2025.

- In response to pipe penetration exceedances at EW-54, EW-66, EW-67, and EW-95, the City ordered bentonite and wellbore skirts and plans to install those items at these locations.

1.1.2 Monitoring of Leachate Collection Components

SCS Field Services (SCS-FS) visited the Bristol Landfill on June 12, 2025, and performed monitoring of the leachate, witness zone, northern cleanouts, and gradient control clean-outs at the southern end of the landfill. The results of that monitoring are included in Table 2.

Table 2. Leachate Cleanout Pipe Monitoring Results

Description	ID#	Record Date	CH4 (% by Vol)	CO2 (% by Vol)	O2 (% by Vol)	Balance Gas (% by Vol)	Initial Temp (°F)	Adj Temp (°F)	Initial Static Pressure (in H2O)	Adj Static Pressure (in H2O)	System Pressure (in H2O)
Southern Cleanouts Gradient West	LC01	6/12/2025 9:01:27 AM	53.2	45.0	0.0	1.8	62.5	62.5	-12.51	-12.51	-14.88
Southern Cleanouts Gradient East	LC02	6/12/2025 9:04:48 AM	47.0	49.9	0.0	3.1	63.8	63.7	-12.98	-12.91	-14.68
Southern Cleanouts Leachate Center	LC03	6/12/2025 9:07:37 AM	11.2	11.8	16.6	60.4	65.7	65.9	-14.86	-14.65	-14.73
Southern Cleanouts Witness East	LC04	6/12/2025 9:11:06 AM	2.3	1.2	20.1	76.5	67.5	67.6	-12.17	-12.41	-14.76
Southern Cleanouts Leachate West	LC05	6/12/2025 9:26:55 AM	46.8	46.8	0.1	6.3	63.7	63.7	-13.18	-13.18	-14.81
Southern Cleanouts Gradient Center West	LC06	6/12/2025 9:23:26 AM	10.9	5.1	17.6	66.6	69.5	69.5	-6.43	-6.42	-14.66
Southern Cleanouts Leachate East	LC08	6/12/2025 9:14:34 AM	47.2	50.4	0.1	2.3	64.0	63.9	-12.84	-12.84	-14.78
Southern Cleanouts Gradient Center East	LC09	6/12/2025 9:20:37 AM	43.3	30.4	5.4	20.9	69.5	69.6	-14.87	-14.87	-14.77
Southern Cleanouts Leachate West	LC10	6/12/2025 9:17:59 AM	4.9	5.7	19.0	70.5	69.3	69.5	-14.87	-14.86	-14.59
Northern Cleanouts Leachate East	NC01	6/12/2025 7:52:51 AM	0.0	0.0	21.6	78.4	66.9	67.2	-12.13	-12.15	0.00
Northern Cleanouts Leachate Center	NC02	6/12/2025 7:54:48 AM	0.0	0.0	21.6	78.4	67.4	67.5	-12.10	-12.08	0.00
Northern Cleanouts Leachate West	NC03	6/12/2025 7:56:19 AM	0.0	0.0	21.6	78.4	67.4	67.5	-12.17	-12.13	0.00
Northern Cleanouts Witness East	NC04	6/12/2025 7:58:11 AM	0.1	0.0	21.5	78.4	67.5	67.5	-12.17	-12.17	0.00
Northern Cleanouts Witness Center	NC05	6/12/2025 8:00:32 AM	0.1	0.1	21.3	78.5	67.5	67.6	-12.17	-12.17	0.00

Description	ID#	Record Date	CH4 (% by Vol)	CO2 (% by Vol)	O2 (% by Vol)	Balance Gas (% by Vol)	Initial Temp (°F)	Adj Temp (°F)	Initial Static Pressure (in H2O)	Adj Static Pressure (in H2O)	System Pressure (in H2O)
Northern Cleanouts Witness West	NC06	6/12/2025 8:02:05 AM	0.0	0.0	21.5	78.5	67.6	67.6	-12.17	-12.17	0.00
Northern Cleanouts Gradient East	NC07	6/12/2025 8:04:56 AM	0.0	0.0	21.4	78.5	67.7	67.5	-12.22	-12.25	0.00
Northern Cleanouts Gradient Center East	NC08	6/12/2025 8:06:29 AM	0.0	0.0	21.4	78.6	67.6	67.6	-12.17	-12.17	0.00
Northern Cleanouts Gradient Center West	NC09	6/12/2025 8:09:11 AM	0.0	0.0	21.5	78.5	67.7	67.7	-12.17	-12.17	0.00
Northern Cleanouts Gradient West	NC10	6/12/2025 8:10:30 AM	0.0	0.0	21.4	78.6	67.8	67.8	-12.31	-12.24	0.00

1.2 EXISTING GAS EXTRACTION SYSTEM PERFORMANCE

SCS and SCS-FS have been coordinating with the City to improve the performance of the existing gas system. Specific actions taken to maintain and improve the system are detailed in the following sections of this report.

Additional actions taken by SCS-FS include the following:

- Adjustments to LFGCCS
- Maintenance of air lines and pressurized air infrastructure
- Maintenance of wellhead and other gas collection infrastructure
- Removal of liquids from landfill gas headers
- Replacement of a section of blocked forcemain
- Temporary relocation of header pipes to facilitate placement of additional soil.

1.3 REMOTE MONITORING SYSTEM

In the Fall of 2022, SCS Remote Monitoring & Control (SCS-RMC) installed 25 industrial internet of things (IIoT) temperature sensors in the landfill gas wellheads. The purpose of the sensors is to record and transmit wellhead gas temperatures via cellular connection to a database managed by SCS-RMC. Since the initial installation, some sensors have been relocated and additional sensors have been added to the network. There are currently 59 wellhead temperature sensors operating within the wellfield.

The City is providing the minimum, maximum, and average daily temperature recorded by each sensor to VDEQ on a daily basis via email. Minimum, maximum, and average daily temperatures recorded by the remote monitoring system during the month of June are included in Appendix C. In addition, SCS previously prepared semi-monthly status updates to satisfy the conditions of compliance provision no. 2 of the Environmental Protection Agency (EPA) Region III letter, Approval of Higher Operating Temperature Values for Landfill Gas Wells and Submission of Gas Treatment Alternatives at the Bristol Virginia Integrated Solid Waste Management Facility, dated August 23, 2021. On August 2, 2023, VDEQ requested that such updates be included in the monthly

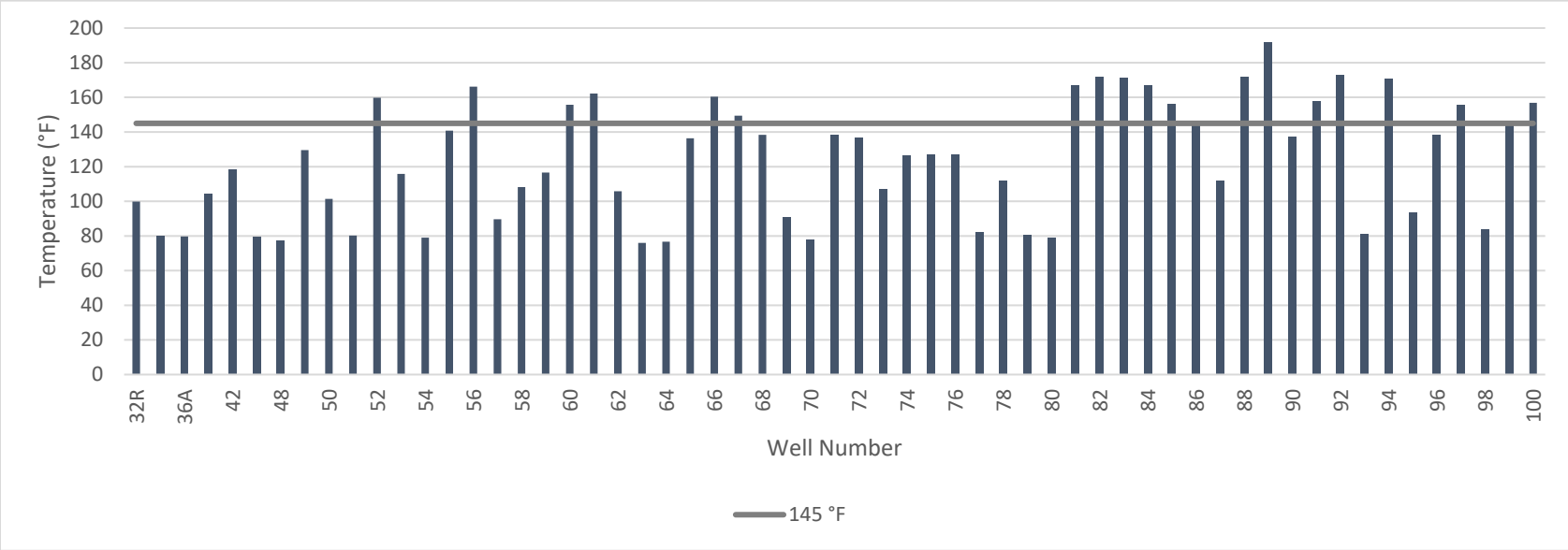
compliance reports. Accordingly, this section is a summary of temperature monitoring activities during the monthly monitoring period of June 2025.

1.3.1 Automated Wellhead Temperature Measurements

SCS reviewed the automated hourly temperature measurements from June 2025, and observed the following:

- The average temperature in June was above the regulatory threshold of 145°F at 18 wells.
- EW-89 recorded the highest average temperature was 191.8°F. Temperatures at EW-89 greater than 200°F continued from May into June until June 27, 2025, decreasing to ~170°F. The pump in EW-89 was replaced in May in an effort to increase the removal of excess heat. Pump stroke data in June indicate that a substantial amount of liquid (carrying heat) was removed from the well.

Figure 1. Monthly Average Automated Wellhead Temperatures[1]



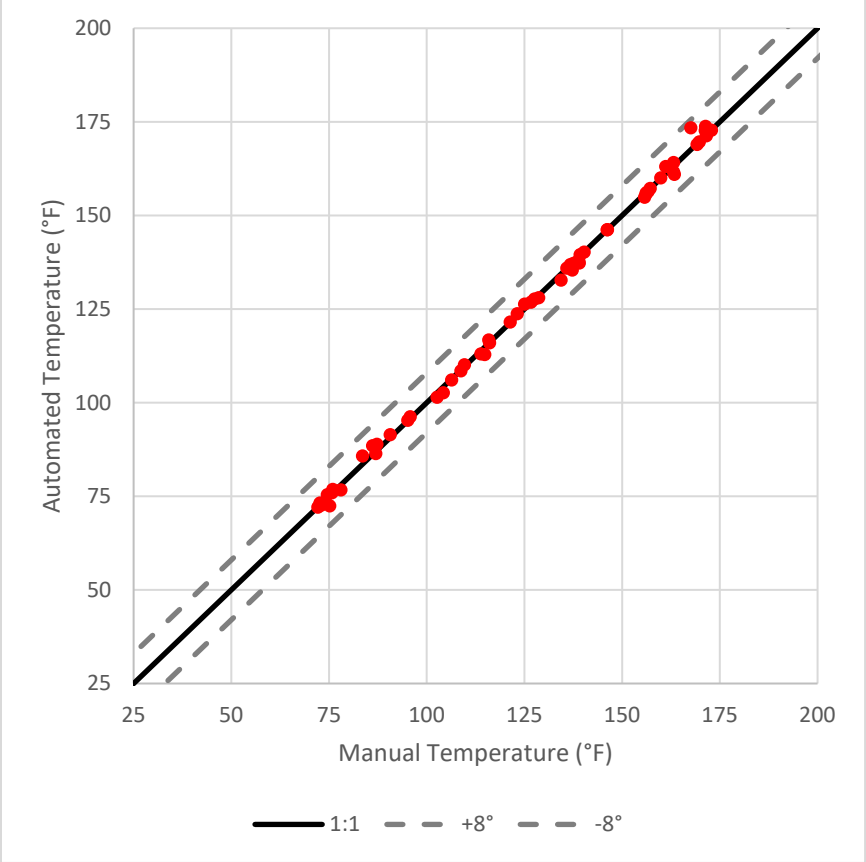
[1] 145°F is the NESHAP AAAA compliance threshold for well temperature, included here for reference.

1.3.2 Comparison with Manual Temperature Measurements

Per the approval issued by VDEQ on August 2, 2023, the Facility ceased dedicated daily manual temperature measurements in the Permit No. 588 Landfill. In lieu of these measurements, the City compares instantaneous hourly automated temperature measurements with temperatures measured at each wellhead using a handheld sensor during monthly compliance monitoring. These comparisons are shown in Figure 2, with the ±8°F deviation thresholds as prescribed in the VDEQ approval.

Each well demonstrated compliant readings within the ±8°F deviation lines during this reporting period.

Figure 2. Automated vs. Manual Temperature Measurements



1.3.3 Monthly Regulatory Wellhead Temperature Measurements

Routine monthly temperature monitoring was conducted on June 3, 2025 to comply with 40 CFR 60.36f(a)(5). Table 3 provides the status of exceedances recorded during this monitoring period.

Table 3. May Temperature Exceedance Summary

Well ID	Initial Exceedance Date	Compliant Reading	Most Recent Reading	Duration of Exceedance	Status as of 7/1/2025
EW-56	5/29/25	N/A	6/30/25 171.4°F	34 days	Ongoing, within 60-day timeline
EW-60	6/16/25	N/A	6/30/25 146.8°F	15 days	Resolved within 15-day timeline
EW-66	6/4/25	6/5/25 163.2°F	6/30/25 164.4°F	2 days	Resolved within 15-day timeline
EW-77	6/5/25	6/5/25 144.6°F	6/30/25 99.3°F	1 day	Resolved within 15-day timeline
EW-89	6/3/25	6/30/25 141.4°F	6/30/25 141.4°F	28 days	Resolved within 60-day timeline
EW-92	6/3/25	N/A	6/30/25 179.7°F	29 days	Ongoing, within 60-day timeline

1.3.4 LFG Sampling

SCS collected weekly LFG samples from wells with temperature exceedances lasting more than seven days using 1.5-L Summa canisters. The samples were sent to Enthalpy Analytical for laboratory analysis of carbon monoxide (CO) and hydrogen (H_2) content. As of July 1, 2025, the City has received lab results for sampling on May 21, 2025, May 29, 2025, June 5, 2025, June 12, and June 18, 2025 to fulfill the requirement in 40 CFR 63.1961(a)(5). The lab data are summarized in Table 4.

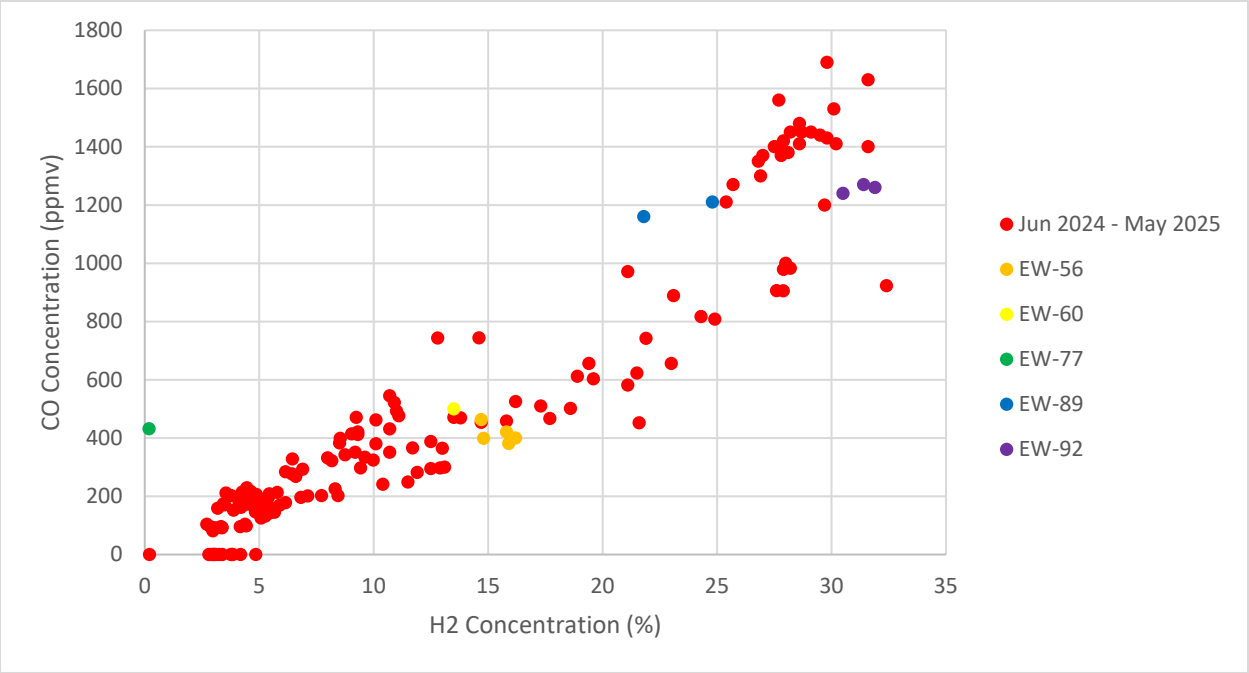
Table 4. LFG Wellhead Sampling Summary

Sample Date		5/21/25	5/29/25	6/5/25	6/12/25	6/18/25
EW-56	CO (ppmv)	400	381	421	463	399
	H2 (Vol. %)	16.2	15.9	15.8	14.7	14.8
EW-60	CO (ppmv)					500
	H2 (Vol. %)					13.5
EW-77	CO (ppmv)		432			
	H2 (Vol. %)		0.19			
EW-79	CO (ppmv)	ND	128			
	H2 (Vol. %)	2.78	7.01			
EW-89	CO (ppmv)			1210	1160	
	H2 (Vol. %)			24.8	12.8	
EW-92	CO (ppmv)			1270	1260	1240
	H2 (Vol. %)			31.4	31.9	30.5

The presence of hydrogen in the majority of samples collected during this monitoring period indicates that combustion reactions are unlikely in most cases. As shown in Figure 3, the carbon monoxide and hydrogen data collected during this period appear to be generally consistent with the data collected previously in 2024 and 2025, except for EW-77. EW-77 has been offline since May

due to concern for heightened risk of a subsurface reaction in the area. SCS-FS tested applying vacuum at the wellhead in June, but the high temperature recorded upon opening the valve prompted technicians to keep the well offline for the time being. Hydrogen levels in samples taken from EW-77 were low in comparison to samples taken from other wells.

Figure 3. CO vs H_2 Concentration from gas wells in June 2025 with historical trend



2.0 SIDEWALL ODOR MITIGATION

On the City's behalf, SCS designed and constructed a system to control fugitive emissions emanating from the quarry sidewalls.

2.1 PERIMETER GAS COLLECTION SYSTEM

Refer to the April 2023 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the perimeter gas extraction wells.

2.2 SIDEWALL ODOR MITIGATION SYSTEM

Refer to the October 2022 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the design of the sidewall odor mitigation system.

2.3 PILOT SYSTEM CONSTRUCTION

Refer to the February 2023 Monthly Compliance Report for the SWP No. 588 Landfill, for information about the design of the construction of the pilot sidewall odor mitigation system.

2.4 FULL SYSTEM CONSTRUCTION

Operation of the sidewall odor mitigation system is monitored on a monthly basis. SCS-FS collected monitoring data at each wellhead under vacuum in May. A summary of system averages during the month is shown in Table 5.

Table 5. Average SOMS Gas Composition

Record Dates	Average CH_4 [%]	Average CO_2 [%]	Average O_2 [%]	Average Bal Gas [%]
6/9/2025	4.8	7.7	17.0	70.6
6/24/2025	4.9	7.7	16.7	70.7

The sidewall system average gas composition indicates lower methane content than other components in the LFGCCS. These gas composition measurements indicate that the SOMS is collecting a mixture of LFG escaping the sidewall and ambient air. Adjustments to vacuum at each wellhead are made on a regular basis to address changes in sidewall emissions and facilitate placement of additional soil.

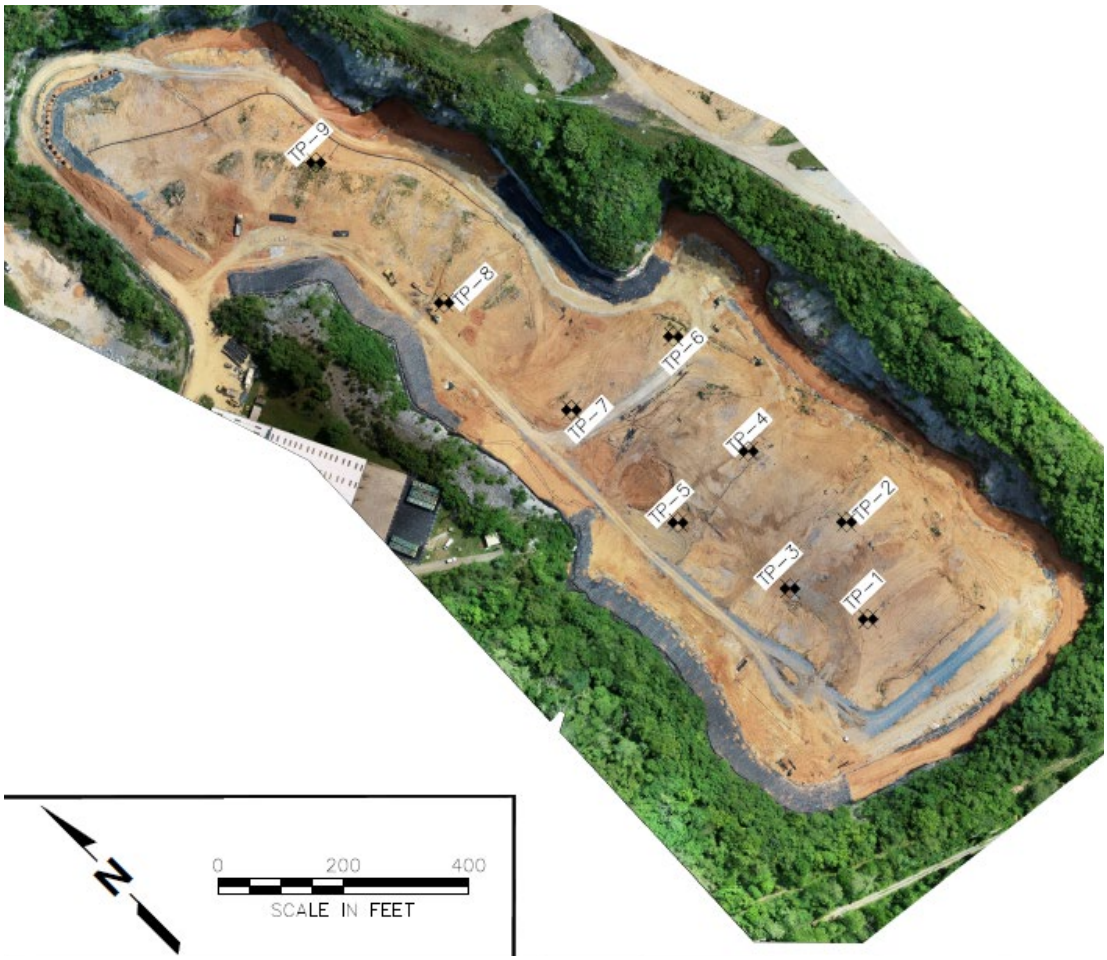
3.0 WASTE TEMPERATURE MONITORING

SCS designed a monitoring system to collect temperature data throughout the waste mass. The steps taken by the City to implement this system are described in the following sections.

3.1 SUMMARY OF WASTE TEMPERATURE MONITORING

Installation of the in-situ Landfill Temperature Monitoring System began in October of 2022 and installation of replacement sensors was completed in February of 2023. Details of construction progress can be found in the monthly compliance reports for the SWP No. 588 Landfill. The locations of the temperature probes are shown in Figure 4.

Figure 4. Temperature Monitoring Probe Locations



SCS began collecting temperature data daily on February 15, 2023.

Average daily temperatures recorded by the sensors for the month of June are included in Appendix D. Each week the average temperatures from a select day of that week are downloaded and compared to temperatures recorded during the previous week. Average daily temperatures recorded on select days during the month of June are shown in Appendix B. The average temperatures recorded for March 2023, March 2024, March 2025, May 2025, and June 2025 are shown in Figures 5 through 11 on the following pages.

Overall, these data indicate that temperatures within the landfill are generally stable and are typical of those observed at elevated temperature landfills (ETLFs). The temperatures recorded are substantially lower than those associated with landfill fires or other combustion processes, which can exceed 1000°F, which is further evidence that the elevated temperatures are due to sources other than combustion.

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3.1.1 Operational Challenges

Multiple sensors in TP-2 and TP-3 started to fault in late 2024/early 2025. SCS coordinated with the City in March to pull the string of thermocouples from TP-2 and TP-3 but were unable to remove the strings in either probe due to suspected pinching of the casings. The City is planning to replace the loss of TP-2 and TP-3 by utilizing nearby well casings as housing for the thermocouples. EW-91 and EW-92 have been jetted to remove solids that would impede the installation of temperature probes, however the wells' casing was unable to be cleared past 140 feet below surface. Because VDEQ has asked that the replacement probes achieve at least 150 feet in depth, the City is working with another contractor with more powerful equipment and a heat tolerant video camera to investigate further. This work is expected to be completed in July/August.

3.1.2 Temperature Profiles

During the month of June, SCS has observed variations in measurements of temperatures reported by TP-6 and intends to perform additional analysis and potentially troubleshooting to determine the cause of these variations. The data may be revised upon further review.

Figure 5. TP-1 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025

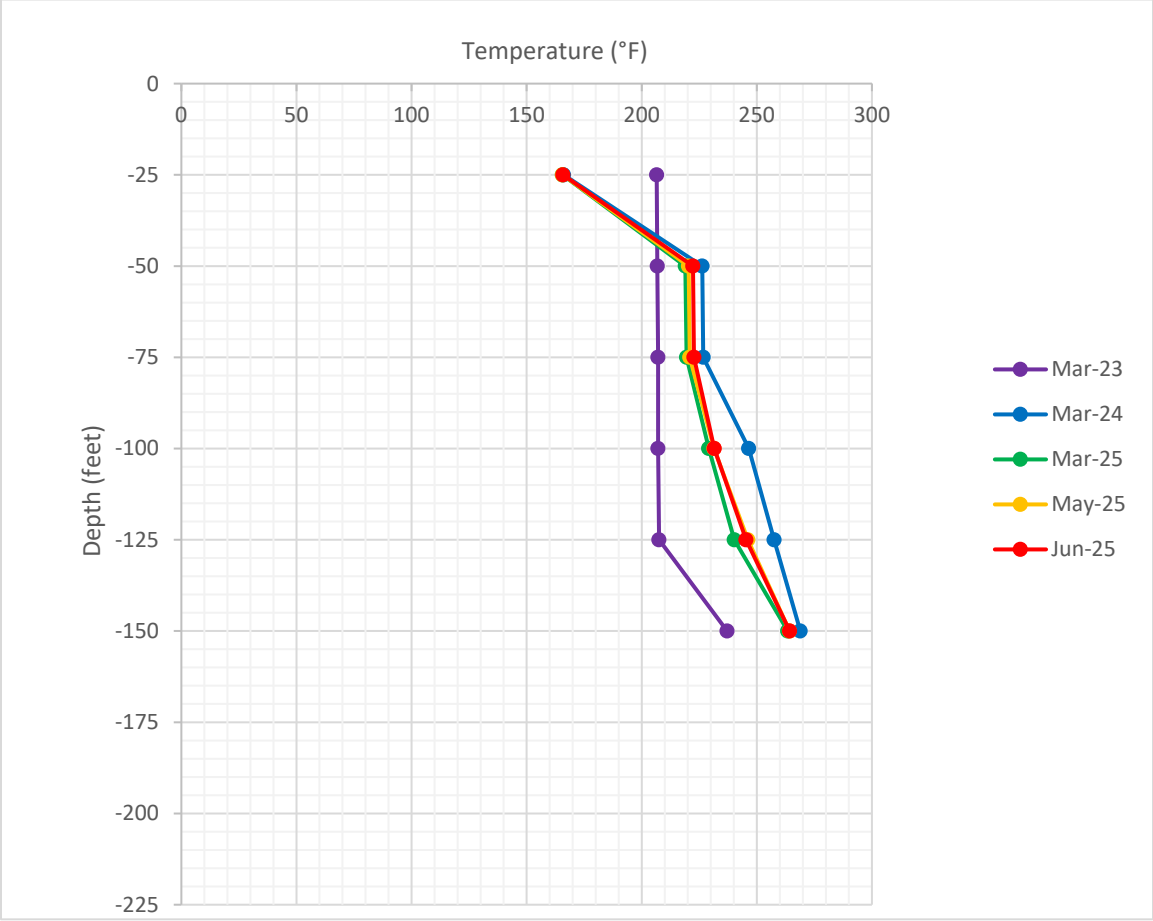


Figure 6. TP-3 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025

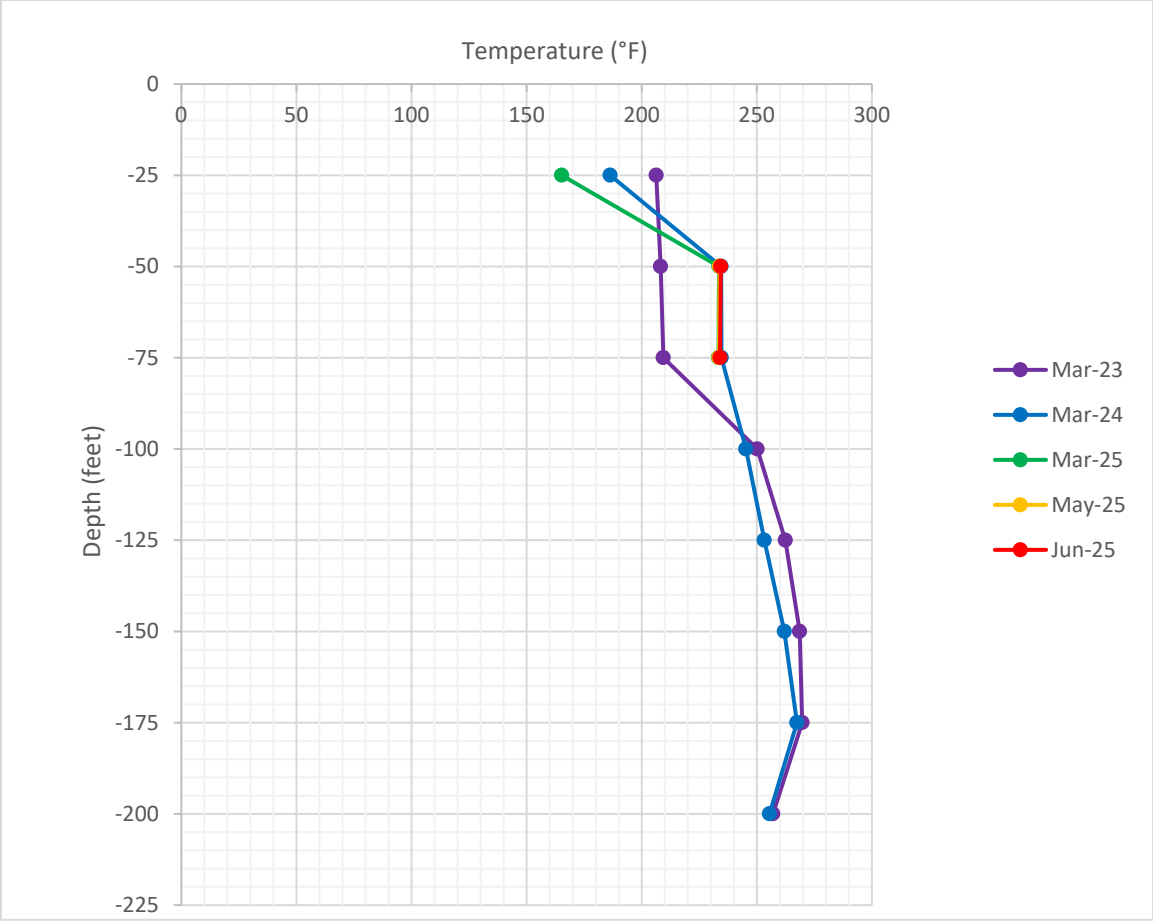


Figure 7. TP-5 Average Temperatures for the Months of March 2023, April 2024, March 2025, May 2025, and June 2025

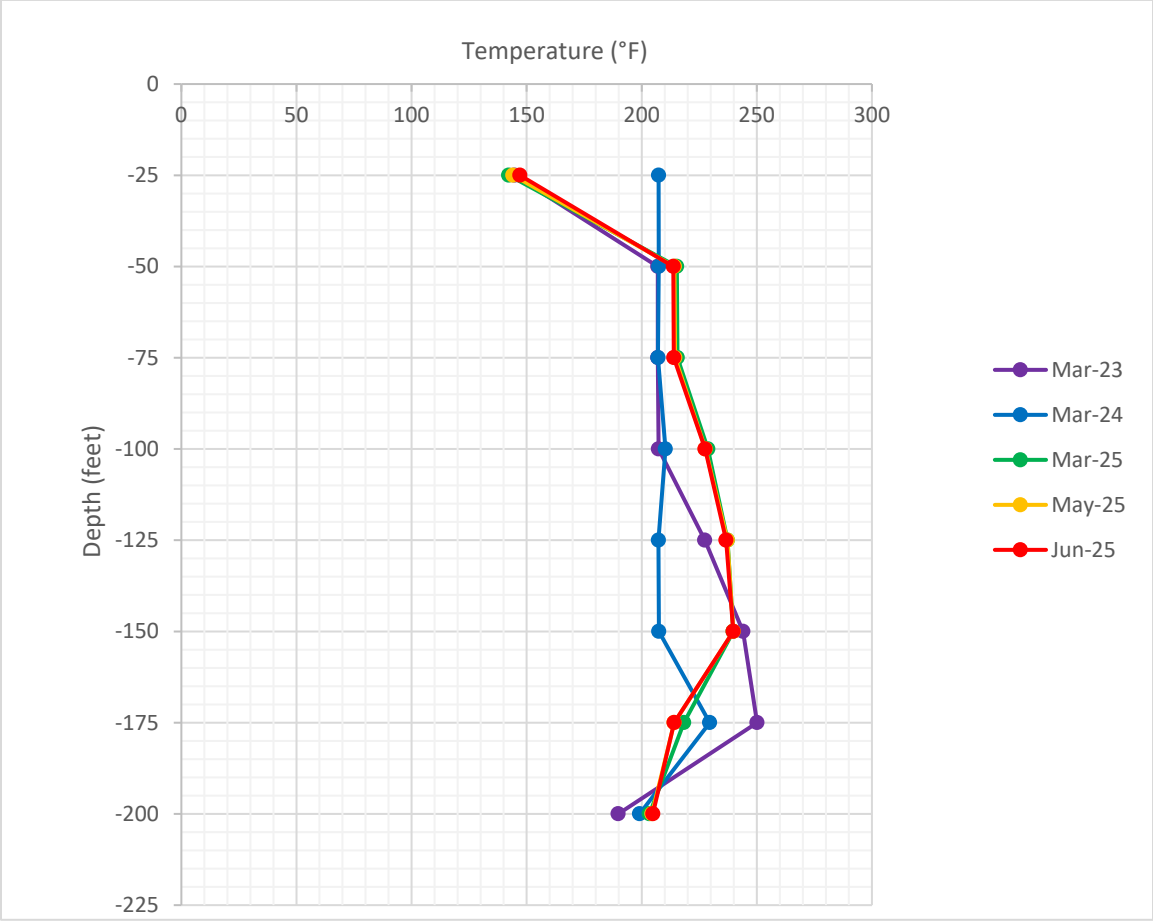


Figure 8. TP-6 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025

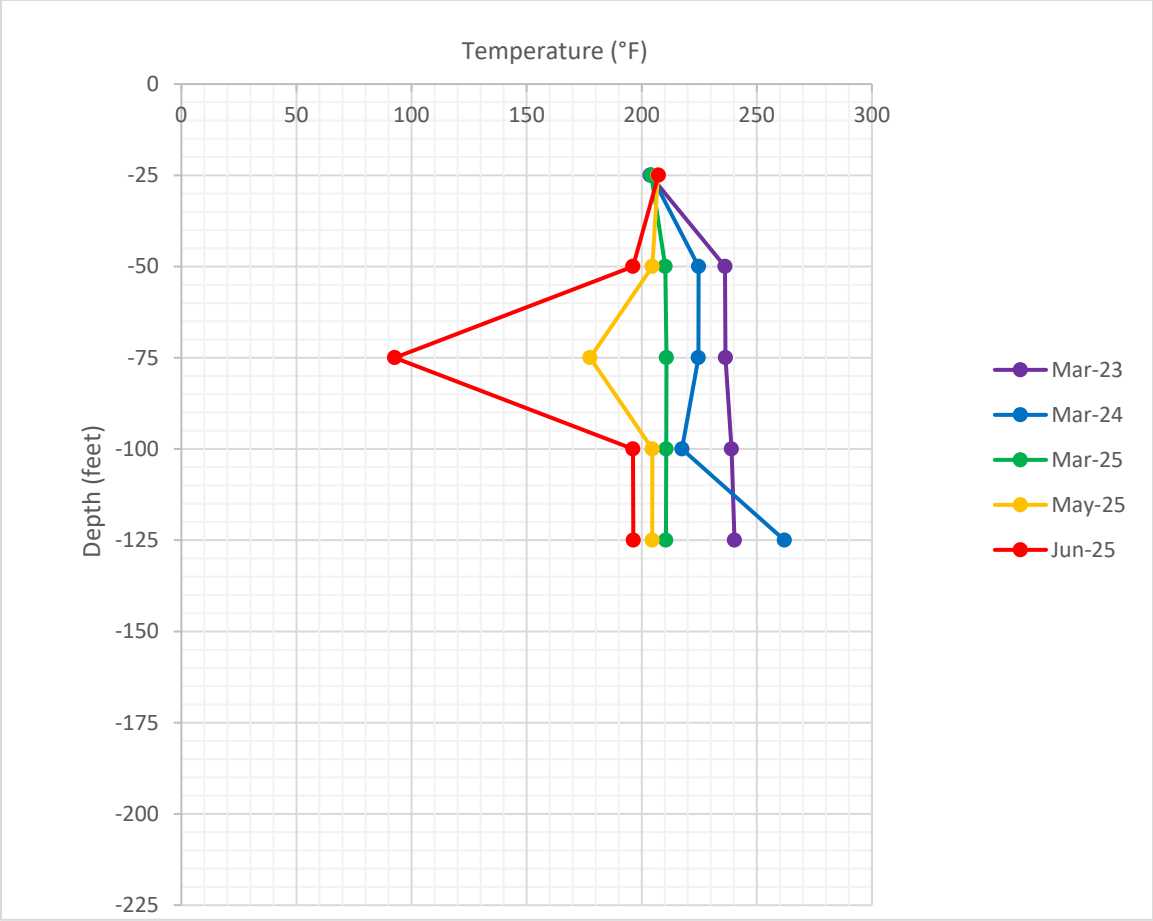


Figure 9. TP-7 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025

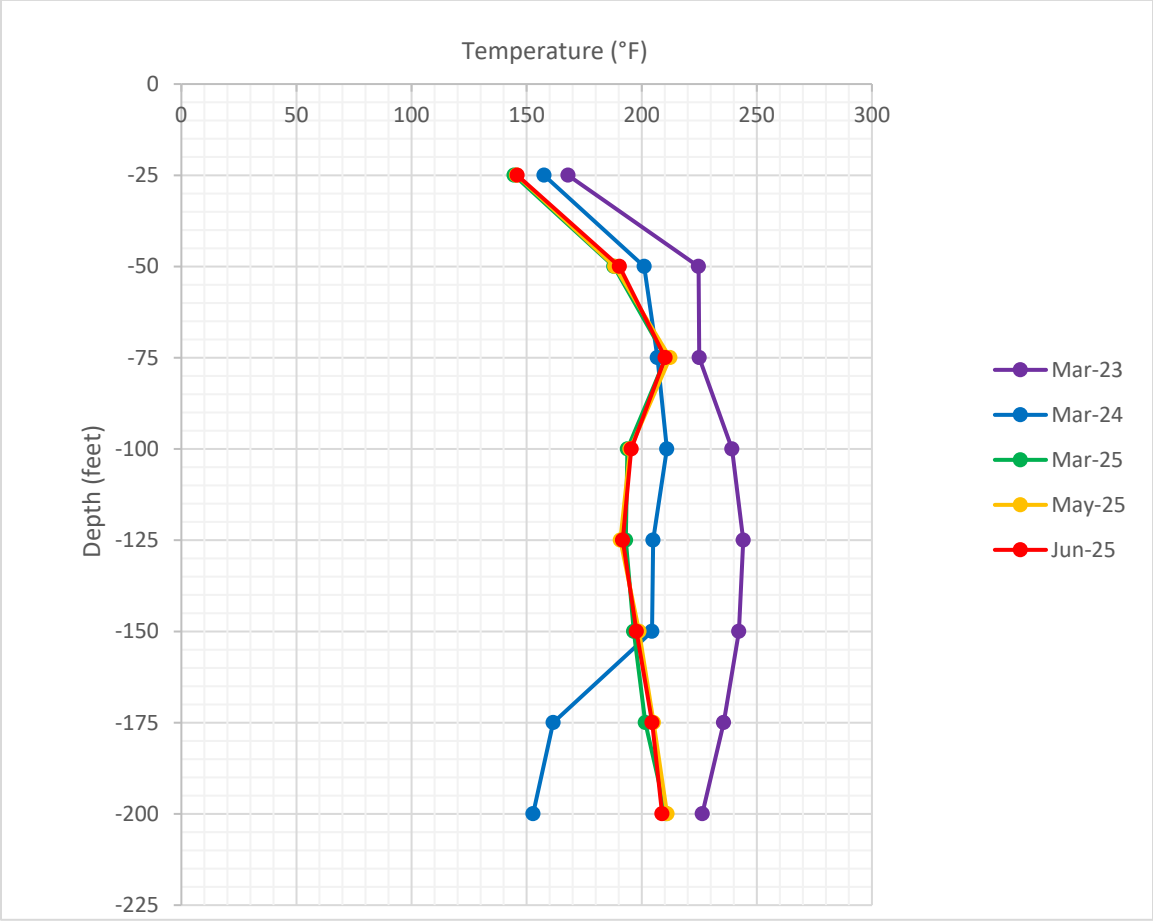


Figure 10. TP-8 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025

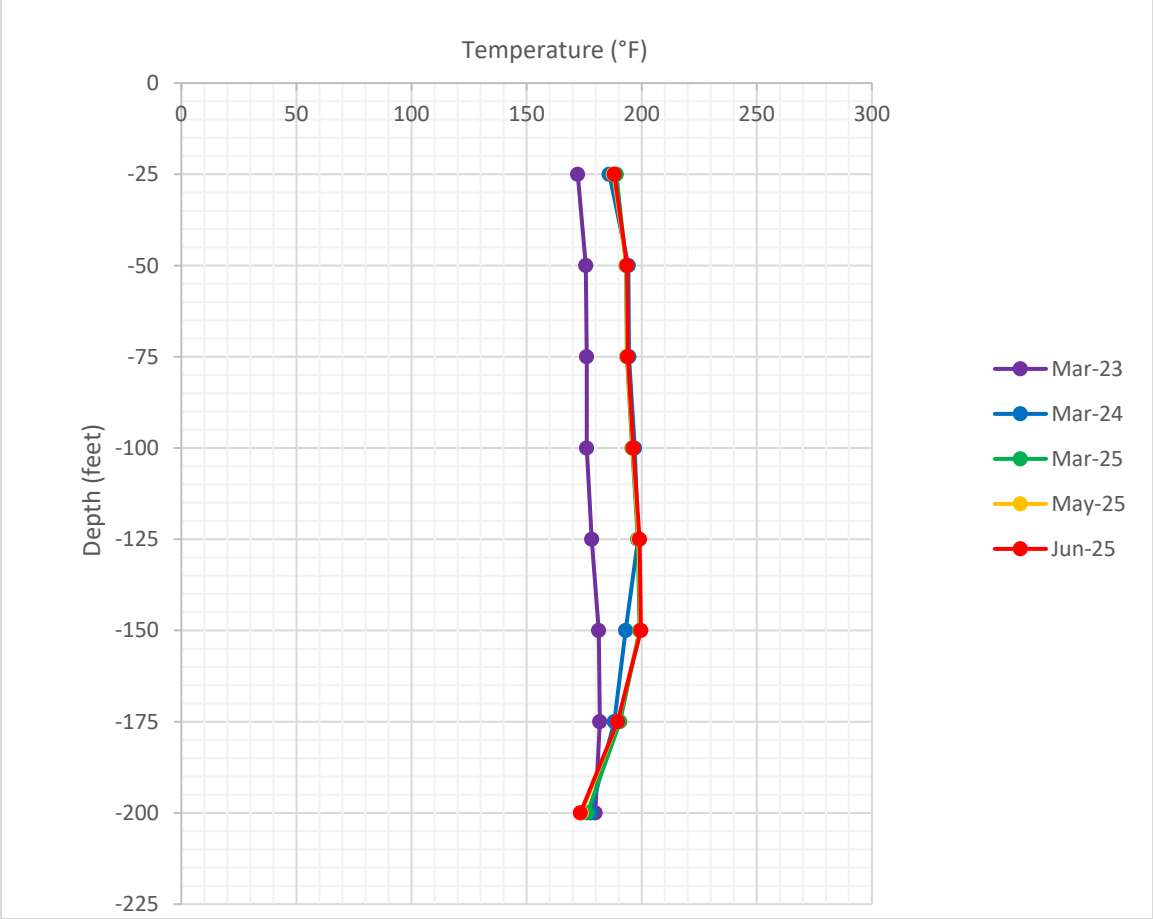
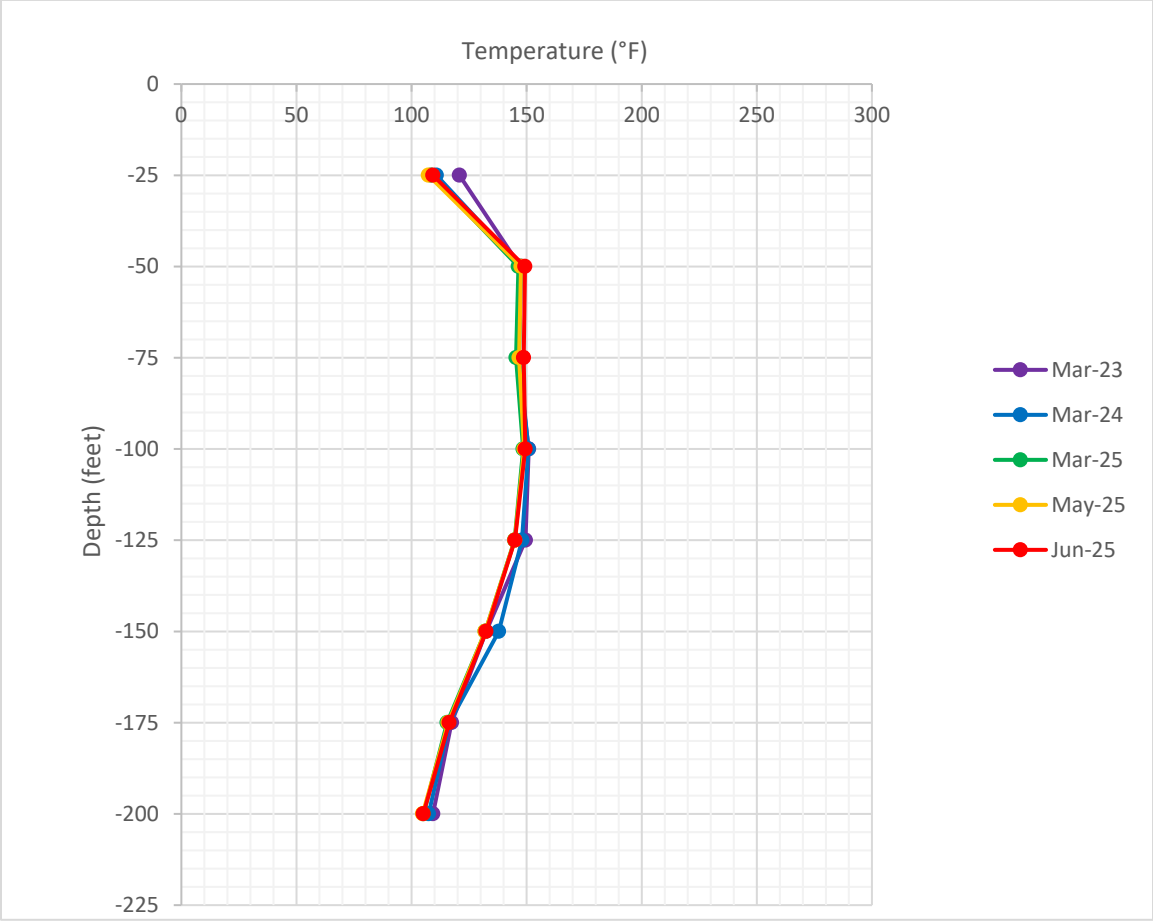


Figure 11. TP-9 Average Temperatures for the Months of March 2023, March 2024, March 2025, May 2025, and June 2025



4.0 LEACHATE EXTRACTION AND MONITORING

The City is continuously taking steps to maintain and improve the extraction of leachate from the waste mass and collect analytical data on leachate characteristics. The following sections detail steps taken to achieve these goals. Refer to Appendix G for narrative sections without updates.

4.1 DEWATERING PUMP OPERATIONS AND MAINTENANCE

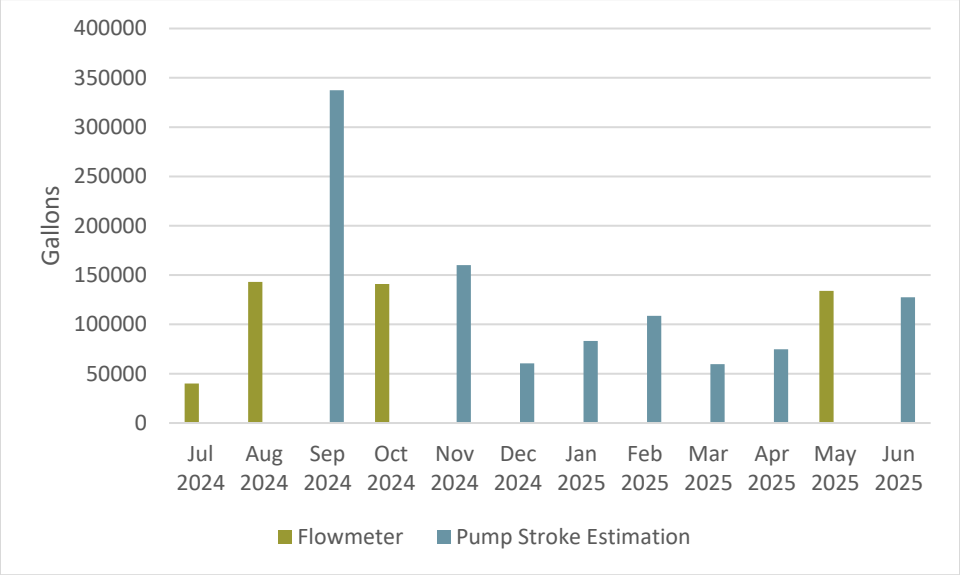
4.1.1 Total LFG Liquids Removal

To improve the accuracy of the total landfill gas liquids flow rate, two flow meters were installed on the landfill gas liquid forcemains in December 2023. One flow meter was installed on the SWP No. 588 primary landfill gas liquid forcemain. The other was installed on the SWP No. 588 alternate landfill gas liquids forcemain, which also serves as the conduit for condensate from the SWP No. 498 landfill gas liquids and the SWP No. 588 stormwater pump.

Figure 12 illustrates landfill gas liquids removal over the past year. During September, November, December 2024 through April 2025, and June 2025, the liquids data recorded by the flowmeter were replaced with estimates from stroke counter data (colored in blue in Figure 12). These replacements were due to either the use of stormwater liquids for cleaning the dewatering forcemain or air intrusion in the dewatering forcemain, which caused the flowmeter readings to be nonrepresentative or erroneous.

SCS and the City continue to address the air intrusion into liquids force mains, which interferes with the LFG liquids flowmeter, by installing additional air release valves and cleanouts to decrease interruptions to its function. The installation is planned to be completed in September under a GCCS expansion contract. SCS will continue to use stroke count estimates to track total liquids removal in the meantime. Stroke counts indicate approximately 127,000 gallons of liquid were pumped out of the landfill in June.

Figure 12. Total Dewatering Liquid Removal



4.1.2 Status of LFG Liquids Pumps

The City and SCS understand that operations of dewatering pumps are critical to address issues related to heat, odors, and the efficient operation of the GCCS. The landfill conditions present a challenging environment for pump operations.

Daily pump checks and maintenance of spare pumps will continue indefinitely, along with pump replacements as needed. The City, along with SCS-FS, have found that the best pumps for the landfill's current conditions are QED pumps designed for high temperature operation.

Estimated volumes of liquids removed at each pump are presented in **Table G-1**, **Appendix G**. SCS has prepared the summary below to outline the operating conditions and specific challenges associated with each pump.

Pump Maintenance Activities

- The pumps in EW-50, EW-59, EW-60, EW-65, EW-66, EW-78, EW-88, and EW-94 were swapped in June.
- The pumps in EW-59, EW-61, and EW-98 were swapped in June, and the tri-tubing was replaced.
- The flex hose and clamps were replaced at EW-86 in June.
- The discharge line was replaced at EW-89 in June.

Wells with Inactive Pumps

- The pumps in EW-33B, EW-76, and EW-87 are stuck in the well casing and have been disconnected. SCS-FS is coordinating with the City to attempt to pull the pumps with a piece of heavy equipment.
  - Action at EW-33B was postponed in June for safety reasons.
- The casings of EW-36A, EW-49, and EW-83 extend too high above the existing ground level for a pump to be safely accessed. These are stainless steel wells that cannot be lowered through conventional means. SCS-FS and the City are coordinating placement of additional soil around the wells to provide safe access.
  - Soil was added around EW-36A in April, and SCS-FS intends to replace the Blackhawk pump with a QED.
- Pumps in EW-51, EW-57, EW-90, and EW-100 are permanently stuck, and not able to function.
- The pumps in EW-52, EW-53, EW-55, EW-67, and EW-93 are unable to be operated due to clogging and/or over pressurization in forcemain line. SCS-FS and the City have procured a contractor to clean the forcemain.
- The pump in EW-62 is offline due to a damaged airline that needs to be replaced.
- EW-82 has a Blackwhawk pump that is not functional, planned to be replaced with a stainless-steel QED pump.

In addition to the challenges associated with the individual pumps, SCS-FS has generally observed high forcemain pressures and significant build-up of solids within the forcemain. An example of

solids build-up within the forcemain is shown in Figure 13. This results in SCS-FS dedicating substantial amounts of time to relieving air pressure on the system. The City issued a solicitation for bids for installation of additional cleanouts and air release valves in the wellfield to address the issue on February 18, 2025. This work was awarded to the Harnden Group, LLC on May 27, 2025.

Figure 13. Solids in Landfill Gas Liquids Forcemain

4.2 SAMPLING AND ANALYSIS PLAN

4.2.1 Sample Collection

On June 24, 2025, SCS collected a leachate sample from a Dual Phase LFG extraction well (EW-78). Field measurements for dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity were taken and recorded at the time of sample collection. The associated field logs are included in **Appendix F**. In June 2025, SCS field staff were not able to collect samples from the wells summarized in **Table 6**. Additional details about the condition of these wells and planned maintenance activities are included in Section 4.1.2.

Table 6. Summary Wells Unable to be Sampled for Leachate

Wells With Pumps	Wells Without Pumps
• Pump was not running at the time of monitoring for the following wells: EW-50, EW-59, EW-60, EW-62, EW-61, EW-65, EW-66, EW-68, EW-85, EW-88, EW-93, and EW-98. • Pump was disconnected or off at the time of monitoring for EW-53, EW-55, EW-64, EW-67, EW-81, EW-82, EW-83, and EW-96. • Pump was disconnected or off at the time of monitoring and well was too tall to safely measure the liquid level for EW-49. • Pump was not running and the liquid depth was not measured at the time of monitoring for EW-89 and EW-94. • Pump was disconnected or off at the time of monitoring and the liquid depth was not measured at the time of monitoring for EW-36A, EW-52, and EW-87. • EW-64 had the vacuum shut down and was unable to be approached during the time of the monitoring. • EW-50 and EW-55 alarmed the 4 gas meters when approached, monitoring was unable to be completed.	• There was no pump at the time of the monitoring for the following wells: EW-54, EW-56, EW-63, EW-69, EW-70, EW-73, EW-77, EW-79, EW-80, EW-84, EW-86, EW-91, EW-92, EW-95, EW-97, and EW-99. • There is no pump and the well appeared dry at the time of monitoring for EW-56. • There was no pump at the time of the monitoring and well was too tall to safely measure the liquid level for EW-92 and EW-97. • There is no pump and the liquid depth was not measured at the time of monitoring for EW-33B and EW-76. • There was no pump at the time of the monitoring and liquid level could not be safely measured for EW-95. • EW-77 and EW-79 had the vacuums shut down and were unable to be approached during the time of the monitoring. • EW-63 alarmed the 4 gas meters when approached, monitoring was unable to be completed.

The samples were delivered to Enthalpy Analytical (Enthalpy) in Richmond, Virginia for analysis. The samples were analyzed for the parameters utilizing the analytical methods described in the Dual Phase Landfill Gas Extraction Well Leachate Monitoring Plan, December 1, 2022, prepared by SCS Engineers. At the time of preparation of this report, laboratory analytical results were not available for the June 2025 monitoring event. The June 2025 analytical results will be provided in the July 2025 Monthly Compliance Report.

4.2.2 Quality Assurance and Quality Control

Field quality control (QC) involved the collection and analysis of trip blanks to verify that the sample collection and handling processes did not impair the quality of the samples. Trip blanks were

prepared for VOC analysis via Solid Waste (SW)-846 Method 8260D. In conjunction with the preparation of the groundwater sample collection bottle set, laboratory personnel filled each trip blank sample bottle with distilled/deionized water and transported them with the empty bottle kits to SCS. Field personnel handled the trip blanks like a sample; they remained un-opened, were transported in the sample cooler, and were returned to the laboratory for analyses. A trip blank is used to indicate potential contamination due to the potential migration of VOCs from the air at the site or in the sample shipping containers, through the septum or around the lid of the sampling vials and into the sample.

Laboratory quality assurance/quality control (QA/QC) involves the routine collection and analysis of method reagent blanks, matrix spike (MS) and matrix spike duplicate (MSD) samples, and laboratory control samples (LCS). A summary of each of these is presented below:

- Method Blank – The method blank is deionized water subjected to the same reagents and manipulations to which site samples are subjected. Positive results in the method blanks may indicate either contamination of the chemical reagents or the glassware and implements used to store or prepare the sample and resulting solutions.
- MS/MSD – A MS is an aliquot of a field sample with a known concentration of target parameter added to it. An MSD is an intra-laboratory split sample spiked with a known concentration of target parameter. Spiking for each occurs prior to sample analysis. MS/MSD samples are collected for every batch of twenty or fewer samples. Matrix spike recoveries are used to indicate what effect the sample matrix may have on the reported concentration and/or the performance of the sample preparation and analysis.
- LCS – These samples consist of distilled/deionized water injected with the parameters of interest for single parameter methods and selected parameters for multi-parameter methods according to the appropriate analytical method. LCS samples are prepared and analyzed for each batch containing twenty or fewer samples. LCS recoveries are used to monitor analytical accuracy.

Surrogate recoveries are also measured as a part of laboratory QA/QC. Surrogates are organic compounds that are like the parameters of interest in chemical composition, extraction, and chromatography, but are not normally found in environmental samples. These compounds are inserted into blank, standards, samples, and spiked samples prior to analysis for organic parameters only. Percent recoveries are calculated for each surrogate. Spike recoveries at or below acceptance criteria indicate whether analytical results can be considered biased high or biased low.

No QC blank detects were identified for the May 2025 monitoring event. The laboratory analysis report for the May 2025 monitoring event trip blank is included in Appendix F. The May 2025 monitoring event laboratory QA/QC report, including the method blank results, is included in the COA in Appendix F.

4.2.3 Data Validation

To identify analytical data that may not represent valid results, data from the monitoring events were validated by the Laboratory and SCS in accordance with United States Environmental Protection

Agency (EPA) guidance[2]. Data flagged with a "J" qualifier indicates the quantitation of the parameter is less than the laboratory's limit of quantitation but greater than the laboratory's limit of detection (LOD); thus, the concentration is considered estimated. Samples with parameter detections less than five times that of the trip blank, field blank, and/or method blank detection but greater than the laboratory's LOD are flagged with a "B" qualifier. Samples with common laboratory contaminant parameter detections less than 10 times that of the trip blank, field blank, and/or method/laboratory blank detection but greater than the laboratory's LOD are flagged with a "B" qualifier. Data with a "B" qualifier are considered not validated as the detection may be anomalous due to cross-contamination during sampling, transportation of samples, or laboratory analysis.

No leachate results were flagged with a "B" qualifier for the May 2025 monitoring event as there were no QC blank detections. The May 2025 detections flagged with a "J" qualifier are shown on Table 7.

4.2.4 Laboratory Analytical Results

The analytical results for the May 2025 leachate samples collected from extraction wells EW-88 and EW-89 are summarized in Table 7. The associated COA is included in Appendix F. Parameter results from May 2025 and previous monitoring events (November 2022 – May 2025) are presented on a table in Appendix F. Time-series plots of each VOC for the wells that have historically been sampled are included in Appendix F.

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-88	EW-89	LOD	LOQ
Parameter	**May 2025 Concentration**			
Ammonia	**2030**	**2360**	146	200
BOD	**42196.44**	**42316.44**	0.2	2
Chemical Oxygen Demand	**60700**	**67900**	6300	10000
Nitrate	**4210**	**4700**	500	500
Nitrite as N	ND	ND	1	5
Phenolics, Total Recoverable	**56**	**67.4**	3	5
Total Kjeldahl Nitrogen	**2580**	---	27.7	151
	---	**2800**	55.3	301
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)				
Anthracene	ND	ND	400	800
TOTAL METALS (mg/L)				
Arsenic	**0.15**	**0.2**	0.0025	0.005
Barium	**2.1**	**1.76**	0.005	0.025

[2] United States Environmental Protection Agency. Guidance for Data Usability in Risk Assessment (Part A-14). April 1992.
United States Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. National Functional Guidelines for Inorganic Superfund Methods Data Review. November 2020.
United States Environmental Protection Agency. Office of Superfund Remediation and Technology Innovation. National Functional Guidelines for Organic Superfund Methods Data Review. November 2020.

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-88	EW-89	LOD	LOQ
Parameter	**May 2025 Concentration**			
Cadmium	ND	ND	0.0005	0.005
Chromium	**0.371**	**0.342**	0.002	0.005
Copper	ND	**0.0123**	0.0015	0.005
Lead	**0.016**	**0.049**	0.005	0.005
Mercury	ND	**0.0128**	0.001	0.001
Nickel	**0.07897**	**0.03695**	0.005	0.005
Selenium	ND	ND	0.00425	0.005
Silver	ND	ND	0.0003	0.005
Zinc	**1.1**	**1.55**	0.0125	0.025
VOLATILE FATTY ACIDS (mg/L)				
Acetic Acid	**6640**	**6530**	71.4	500
Butyric Acid	**2220**	**2160**	70.3	500
Formic acid	**2940**	**2840**	64.5	500
Hexanoic Acid	**534**	**459**	30.2	250
i-Hexanoic Acid	ND	ND	25.4	250
i-Pentanoic Acid	**288**	**282**	51	250
Lactic Acid	**963**	**783**	55.7	500
Pentanoic Acid	**331**	**355**	28	250
Propionic Acid	**2570**	**2560**	57.3	500
Pyruvic Acid	**132 J**	**124 J**	44.4	250

Table 7. Monthly LFG-EW Leachate Monitoring Event Summary

Well ID	EW-88	EW-89	LOD	LOQ
Parameter	May 2025 Concentration			
VOLATILE ORGANIC COMPOUNDS (ug/L)				
2-Butanone	**12500**	---	150	500
	---	**16700**	1500	5000
Acetone	**57300**	**58600**	3500	5000
Benzene	**255**	**222**	20	50
Ethylbenzene	**29 J**	**38 J**	20	50
Tetrahydrofuran	**4080**	**5700**	500	500
Toluene	ND	ND	25	50
Xylenes	ND	ND	50	150

--- = not available

J = Constituent was detected at a concentration above the laboratory's LOD but below the laboratory's LOQ. Concentration is estimated and not validated.

LOD = laboratory's Limit of Detection

LOQ = laboratory's Limit of Quantitation

mg/L = milligrams per liter

ND = Not Detected

ug/L = micrograms per liter

5.0 SETTLEMENT MONITORING AND MANAGEMENT

The City is taking steps to track and manage settlement occurring in the landfill. A summary of actions taken to quantify and manage settlement is included in the sections below. Refer to Appendix G for narrative sections without updates.

5.1 SETTLEMENT MONITORING AND MANAGEMENT PLAN

Information about the Settlement Monitoring and Management Plan for the SWP No. 588 Landfill and a copy of the plan can be found in the November 2022 Compliance Report for the SWP No. 588 Landfill.

5.2 MONTHLY SURVEYS

5.2.1 Topographic Data Collection

SCS collected topographic data of the Solid Waste Permit No. 588 Landfill using photogrammetric methods via an unmanned aerial vehicle (UAV or drone) on June 12, 2025. Aerial imagery collected

on June 12, 2025, is depicted in Figure 14. The topographic data collected is shown on Sheet 4 in Appendix E.

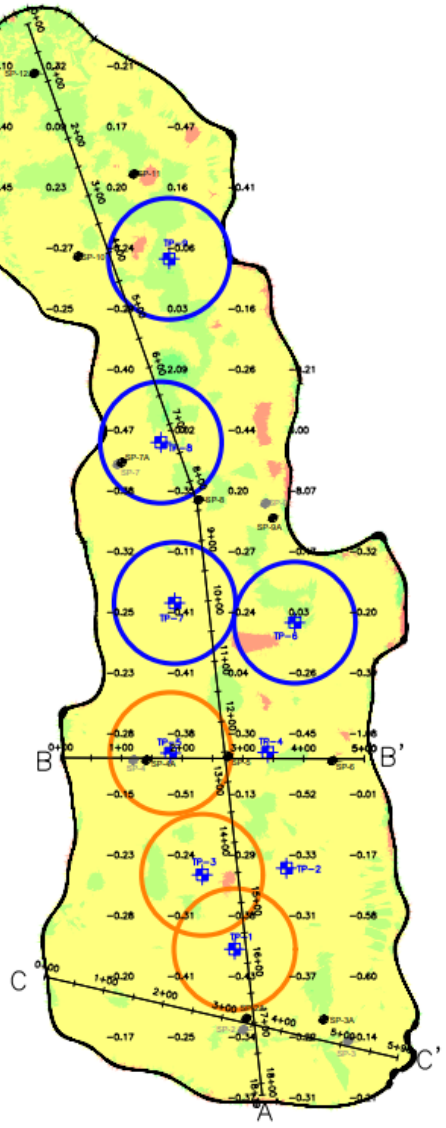
Figure 14. Aerial Photo of the SWP No. 588 Landfill

The topography within the landfill footprint was compared to topographic data collected by SCS using photogrammetric methods on May 15, 2025. A drawing depicting the May 15, 2025 topography is included as Sheet 3 in Appendix E.

Based on a comparison of the topographic data collected on those two dates, the data shows a fill of 1,000 cubic yards across the site. Fill may have been placed and spread on the site to address differential settlement, surface emissions, and to provide access to LFG collection vertical wells. Additionally, a substantial increase in spring vegetation at the site can influence the topographic data recorded by the drone, which contributes to the fill volume. During that same time period, calculations indicate a "cut" volume of approximately 8,000 cubic yards. Cut volumes are typically attributed to settlement. This resulted in a net volume decrease of approximately 6,900 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 15. Areas in yellow, orange, and red indicate where elevations decreased and areas in green indicate areas where elevations have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 5 in Appendix E.

Figure 15. 1-Month Elevation Change Map



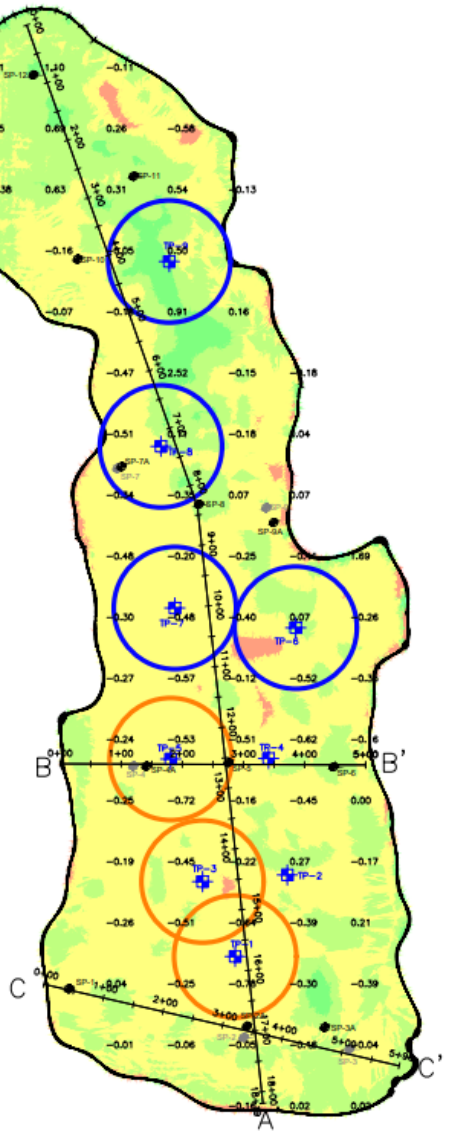
The locations of in-waste temperature monitoring probes are also shown on Figure 15, Figure 16, and Figure 17. The circles around the probes in each of these figures are indicative of the average borehole temperature. The circles shown are offset from the probes for clarity only and do not necessarily indicate temperatures measured at locations away from the probe. Probes with a blue circle around them typically have an average temperature less than 200°F across the full depth of the probe. Probes with an orange circle around them typically have an average temperature greater than 200°F and less than 250°F across the full depth of the probe. Probes with no circle around them represent no temperature readings for this month due to sensor malfunctions. There were no probes measuring average temperatures greater than 250°F and less than 300°F during the month of May 2025.

SCS calculated the waste footprint for purposes of analysis to be 752,610 square feet. Based on that area and the net volume change, the average elevation decrease between the flyover dates was 0.2 feet.

SCS also compared the topographic data collected in June to the topographic data collected on March 11, 2025. Based on a comparison of the topographic data collected on those two dates, settlement occurred that reduced the volume of waste in the landfill by approximately 6,800 cubic yards. During that same time period, calculations indicate approximately 3,300 cubic yards of fill were placed on the landfill, for a net decrease in waste volume of 3,500 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 16. Areas in orange/yellow indicate where elevations decreased and areas in green indicate areas where elevations have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 6 in Appendix E.

Figure 16. 3-Month Elevation Change Map



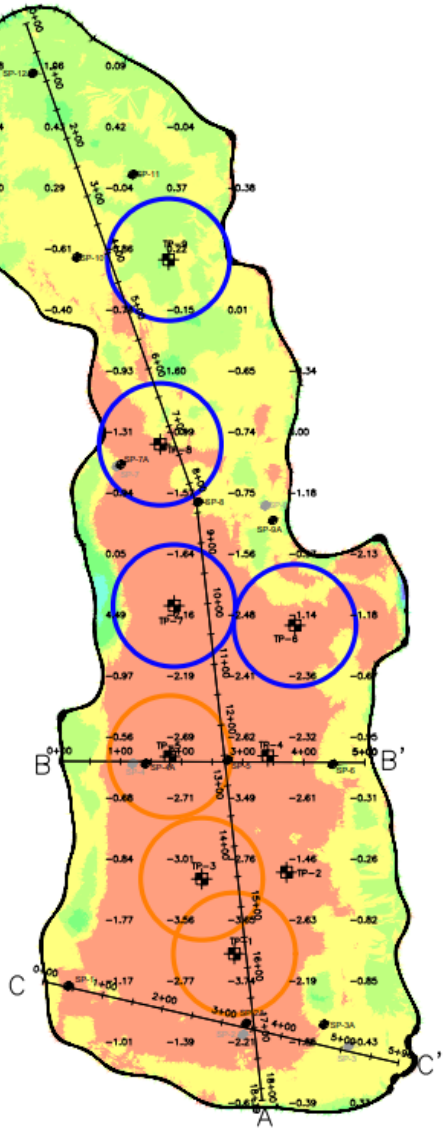
Based on the area of the landfill and the net volume change, the average elevation decrease was approximately 0.1 feet.

SCS also compared the topographic data collected in June 2025 to the drone topographic data collected on June 25, 2024. Based on a comparison of the topographic data collected on those two dates, settlement occurred that reduced the volume of waste in the landfill by approximately 32,800 cubic yards. During that same time period, approximately 2,900 cubic yards of construction-related fill were placed on the landfill. This fill was primarily soil placed as part of ongoing maintenance (i.e. filling to compensate for settlement). This resulted in a net volume decrease of approximately 29,800 cubic yards.

A visual depiction of settlement and filling at the landfill during this time is depicted in Figure 17. Areas in red indicate where elevations decreased and areas in green indicate areas where elevations

have increased. Darker colors indicate greater changes in elevation. This drawing is also included as Sheet 7 in Appendix E.

Figure 17. 1-Year Elevation Change Map



The largest settlement occurred primarily at the southern end of the landfill where the waste settled by 3 feet or more in some areas. Significant settlements are typical of elevated temperature landfill conditions. The landfill perimeter exhibited an increase in elevation, likely due to soil placement associated with ongoing maintenance of the Sidewall Odor Mitigation System. There were variations in elevation associated with soil stockpiling operations.

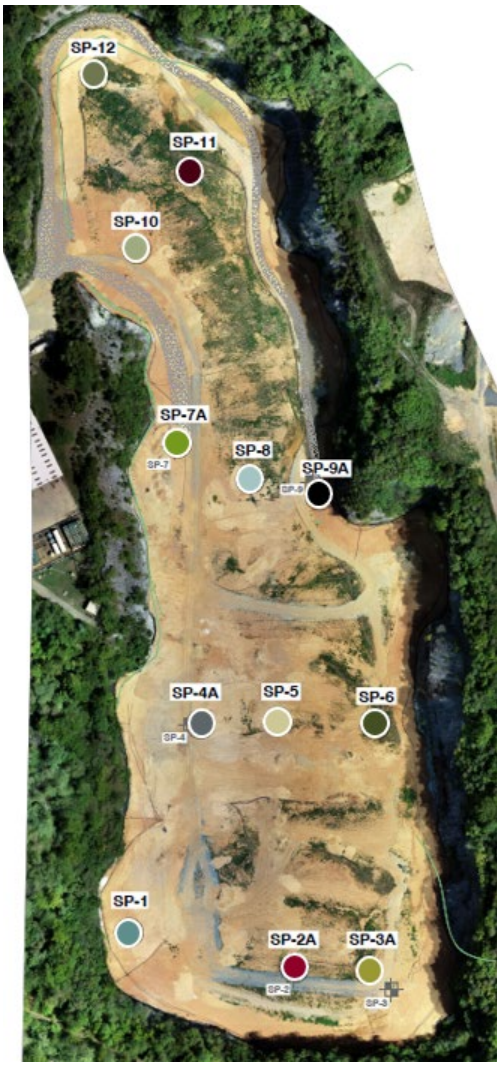
Based on the landfill area and the net volume change, the average elevation decrease was approximately 1.0 feet.

SCS will collect topographic data covering the landfill surface again in July using photogrammetric methods via UAV. This data will be compared to the data collected in July 2024, April 2025, and June 2025.

5.2.2 Settlement Plate Surveys

On November 7, 2022, SCS field services installed 12 settlement plates on the Solid Waste Permit No. 588 landfill. Five new settlement plates (SP-2A, SP-3A, SP-4A, SP-7A, and SP-9A) installed during June 2024 are intended to replace non-operational settlement plates. The settlement plate locations are depicted in Figure 18 and on Sheet 1 in Appendix E. The construction and installation of the settlement plates generally conforms to the design outline in the Settlement Monitoring and Management Plan.

Figure 18. Settlement Plate Locations



The locations of the settlement plates were initially surveyed on November 14, 2022, and have been surveyed monthly thereafter. The survey coordinates and elevation changes of the settlement plates are shown in Table 8.

Table 8. Elevation and Strain Data at Settlement Plate Locations

Settlement Plate	Northing	Easting	Elevation on June 27, 2025 (ft)	Elevation Change Since May 30, 2025 (ft)	Strain[3] Since May 30, 2024	Elevation Change Since Installation (ft)
SP-1	3,397,887.6	10,412,080.9	1,828.7	-0.05	-0.1%	-5.7
SP-2A	3,397,823.2	10,412,370.6	1,792.8	-0.20	-0.1%	-3.0
SP-3A	3,397,820.2	10,412,498.2	1,779.1	-0.02	0.0%	-1.1
SP-4A	3,398,247.0	10,412,207.3	1,802.5	-0.14	-0.1%	-2.6
SP-5	3,398,255.8	10,412,339.7	1,788.2	-0.14	-0.1%	-12.6
SP-6	3,398,248.8	10,412,509.8	1,772.9	-0.01	0.0%	-4.7
SP-7A	3,398,731.6	10,412,158.2	1,822.2	-0.07	-0.1%	-1.3
SP-8	3,398,678.1	10,412,290.9	1,799.7	-0.12	0.0%	-7.7
SP-9A	3,398,644.2	10,412,416.1	1,788.2	0.08	0.1%	-0.6
SP-10[4]	3,399,080.1	10,412,093.3	1,836.8	-0.06	-0.0%	-3.4
SP-11	3,399,216.3	10,412,183.9	1,814.4	-0.03	0.0%	-1.9
SP-12	3,399,381.7	10,412,019.7	1,809.6	0.01	0.0%	-1.0

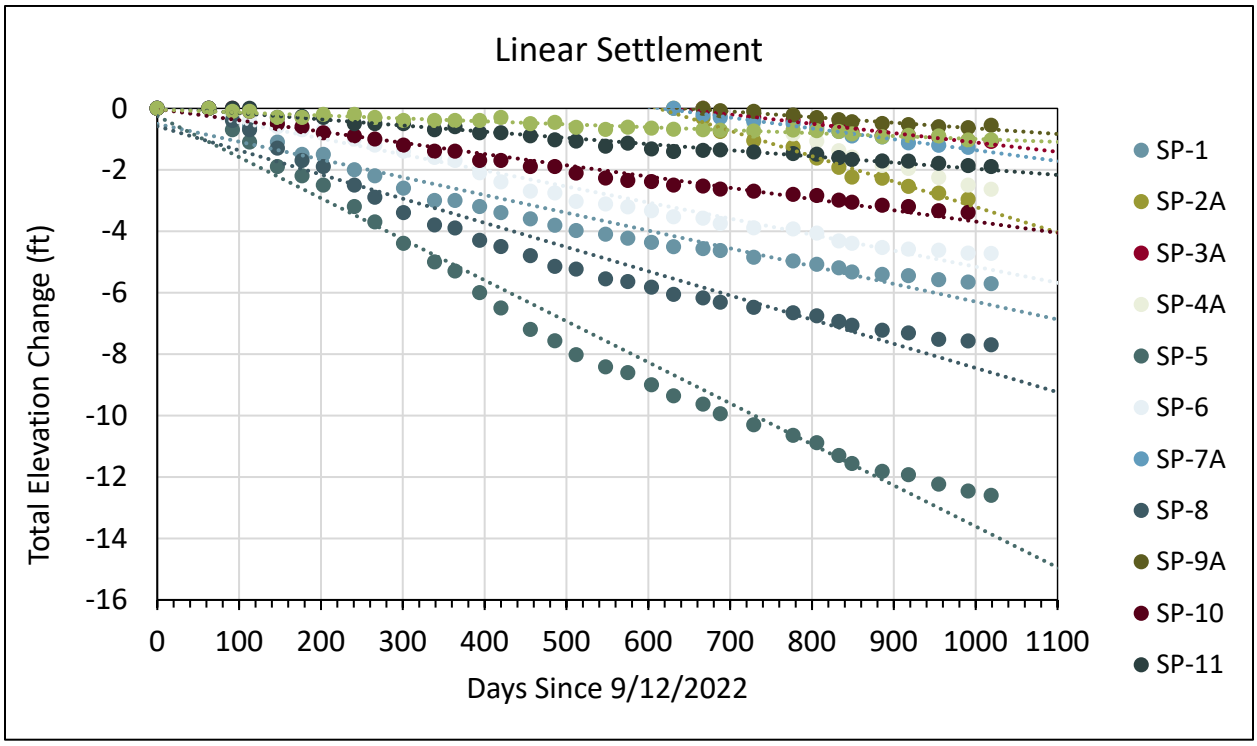
Prior to April 2024, the City's in-house surveyor read the settlement plate elevations. Starting April 2024, the settlement plate elevations were measured by FEI Civil Engineers and Land Surveyors.

Settlement Plates 4A, 5 and 8 demonstrated larger strains due to settlement than at other locations in the past month. Settlement Plates 1, 2A, and 4A are in the middle of the landfill. This area contains gas wells and temperature probes exhibiting higher temperatures. These higher strain values are typical of elevated temperature landfill conditions.

Figure 19 shows the changes in elevation of select settlement plates over time. For the purposes of recording data in this figure, times are reported in days since the landfill was required to stop accepting waste.

[3] Strain is defined as the change in elevation divided by the estimated waste depth.
[4] Settlement data for SP-10 is based off May Reading. The June reading is excluded because the settlement plate was disturbed.

Figure 19. Elevation Change of Select Settlement Plates Over Time



The settlement plates will be surveyed again during July 2025. The elevations surveyed will be compared to the elevations surveyed the previous months.

6.0 INTERMEDIATE COVER AND EVOH COVER SYSTEM

The City has taken steps to provide intermediate and temporary cover of the wastes in the landfill. The sections below describe the steps taken by the City and future plans related to cover.

6.1 INTERMEDIATE COVER INSTALLATION

A summary of the intermediate cover installation can be found in the October 2022 Monthly Compliance Report for the SWP No. 588 Landfill.

6.2 EVOH COVER SYSTEM DESIGN

An amendment to the Consent Decree was issued on March 21, 2024 which requires an ethylene vinyl alcohol (EVOH) deployment no later than December 1, 2026. The amended Consent Decree also requires regular settlement assessments, and the EVOH deployment may occur earlier if settlement rates appear acceptable. The first of these assessments was submitted to VDEQ on April 11, 2024. The most recent assessment was submitted on April 10, 2025. The next assessment will be submitted on or before July 10, 2025.

6.3 EVOH COVER SYSTEM PROCUREMENT

Information about the procurement of materials for the EVOH cover system can be found in the January 2023 Monthly Compliance Report for the SWP No. 588 Landfill.

6.4 EVOH COVER SYSTEM INSTALLATION

As outlined in the amendment to the Consent Decree dated March 21, 2024, the deadline for EVOH Cover System installation has been extended. The City is conducting the assessments described in Section 6.2 to determine the appropriate time for installation.

7.0 STORMWATER MANAGEMENT

Information about the most recent stormwater management plans, basin location, plan implementation, long-term control, and stormwater monitoring for the SWP No. 588 Landfill can be found in the December 2023 Monthly Compliance Report for the SWP No. 588 Landfill.

8.0 MISCELLANEOUS

8.1 CEASE WASTE ACCEPTANCE

The City ceased acceptance of offsite waste at the Solid Waste Permit No. 588 landfill prior to September 12, 2022.

8.2 LONG-TERM PLAN

Refer to the December 2022 and March 2023 Monthly Compliance Reports for the SWP No. 588 Landfill for additional information about the development and implementation of the Monitoring, Maintenance, and Repair Plan.

8.3 MONTHLY COMPLIANCE REPORTS

As described in the introduction this report is intended to provide comprehensive updates regarding progress towards completion of each item described in Appendix A of the Consent Decree between the City and VDEQ.

8.4 COMMUNITY OUTREACH PROGRAM

The City's consultant leading community outreach, McGuireWoods Consulting, prepared a summary of the actions taken as part of their community outreach efforts. For the month of June 2025, those actions include:

- Ongoing basis: Four (4) posts on each the BristolVALandfill.org site and the existing City of Bristol Landfill Notifications and Information page covering important updates including:
    - Progress updates related to remediation efforts and normal maintenance activities at the Quarry Landfill.
    - Updates at the Quarry Landfill included cleaning and repairing/replacing worn parts to the gas extraction system well heads; removing condensation from the lateral lines

in the gas extraction system; swapping out three pumps in the leachate removal system; replacing the force main line for the stormwater pump that removes surface water during rainfall; replacing several gas well pumps; replacing a leachate pump in the dual phase extraction well; performing maintenance on spare leachate pumps; reinstalling the leachate pumps that received maintenance; replacing gas extraction system well-head hoses and fittings; and moving tons of soil in the continuing effort to address settlement at the landfill.

- **Weekly updates on landing page on Bristolvalandfill.org titled "Air Sampling and Air Monitoring" that includes a summary of the air sampling and monitoring being conducted by Bristol, VA around the quarry landfill.**
    - Website now includes weekly air monitoring reports starting from May 15, 2023, and running through June 8, 2025. Additional reports will be posted as the they are received.

- **E-mail communication sent to the list of members of the public signed up through the Bristol, VA website, the BristolVALandfill.org website, or at subsequent Open Houses to receive information via e-mail**
    - E-mails sent included weekly remediation progress update and links to website updates and latest news articles.

Appendix A

Surface Emissions Monitoring Summary

Quarterly SEM

SCS performed the Second Quarter 2025 surface emissions monitoring event on May 27, 2025. The results of the Quarterly SEM were summarized in the May 2025 Compliance Report for the SWP Np. 588 Landfill. A report outlining the results and exceedance locations will be included in the Semi-Annual report to be submitted to VDEQ prior to September 1, 2025.

The Third Quarter 2025 SEM Event is scheduled to be completed by September 30, 2025.

Weekly SEM

In addition to the standard regulatory quarterly surface emissions monitoring, the monitoring in June generally conformed to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The SEM route included the waste footprint of the Permit No. 588 landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at applicable surface cover penetrations within the waste footprint.

The Facility submitted letters to VDEQ describing the results of the June monitoring events on June 11, 2025; June 18, 2025; June 25, 2025; and July 2, 2025. Copies of those letters are included in this Appendix.

The Facility continues to take proactive steps to limit fugitive surface emissions including dewatering activities, additional cover soil placement, and LFG system maintenance and tuning to increase gas extraction.

June 11, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – June 2, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

On behalf of the City of Bristol (City), SCS Engineers (SCS), is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on June 2, 2025. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). The Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.

Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	3
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	3

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

On June 5, 2025, the City submitted an Alternate Remedy Request for corrective actions for exceedances at four specific locations. Details regarding the specific proposed corrective actions are outlined in the letter request.

A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	6/2/25 Event	6/2/25 Event Result	Comments
EW-54	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-66	2/24/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-67	4/18/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-95	4/18/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-82	5/19/25	N/A	Passed	Requires 1-Month Retest

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,

Wylie R Hicklin
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 2, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	0.2 PPM	OK			Start Serpentine Route
2	1.5 PPM	OK			
3	0.1 PPM	OK			
4	0.1 PPM	OK			
5	0.0 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.0 PPM	OK			
9	0.0 PPM	OK			
10	0.1 PPM	OK			
11	0.7 PPM	OK			
12	0.0 PPM	OK			
13	0.0 PPM	OK			
14	0.1 PPM	OK			
15	0.1 PPM	OK			
16	0.0 PPM	OK			
17	0.1 PPM	OK			
18	0.1 PPM	OK			
19	0.1 PPM	OK			
20	0.1 PPM	OK			
21	0.1 PPM	OK			
22	1.7 PPM	OK			
23	0.5 PPM	OK			
24	0.6 PPM	OK			
25	0.9 PPM	OK			
26	0.2 PPM	OK			
27	0.1 PPM	OK			
28	0.2 PPM	OK			
29	0.1 PPM	OK			
30	1.8 PPM	OK			
31	2.9 PPM	OK			
32	18.1 PPM	OK			
33	175.0 PPM	OK			
34	312.0 PPM	OK			
35	147.0 PPM	OK			
36	0.7 PPM	OK			
37	16.8 PPM	OK			
38	15.3 PPM	OK			
39	8.4 PPM	OK			
40	0.1 PPM	OK			
41	0.0 PPM	OK			
42	0.0 PPM	OK			
43	4.1 PPM	OK			
44	0.2 PPM	OK			
45	0.0 PPM	OK			
46	0.1 PPM	OK			
47	0.1 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 2, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.2 PPM	OK			
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.2 PPM	OK			
52	0.0 PPM	OK			
53	0.0 PPM	OK			
54	0.0 PPM	OK			
55	0.2 PPM	OK			
56	0.0 PPM	OK			
57	0.1 PPM	OK			
58	0.1 PPM	OK			
59	0.1 PPM	OK			
60	0.0 PPM	OK			
61	0.0 PPM	OK			
62	0.3 PPM	OK			
63	0.0 PPM	OK			
64	0.0 PPM	OK			
65	0.0 PPM	OK			
66	0.3 PPM	OK			
67	0.1 PPM	OK			
68	0.0 PPM	OK			
69	3.1 PPM	OK			
70	0.8 PPM	OK			
71	5.6 PPM	OK			
72	1.6 PPM	OK			
73	1.1 PPM	OK			
74	0.0 PPM	OK			
75	0.2 PPM	OK			
76	0.1 PPM	OK			
77	0.2 PPM	OK			
78	4.9 PPM	OK			
79	11.2 PPM	OK			
80	0.5 PPM	OK			
81	1.1 PPM	OK			
82	1.2 PPM	OK			
83	0.4 PPM	OK			
84	0.9 PPM	OK			
85	0.3 PPM	OK			
86	0.0 PPM	OK			
87	1.5 PPM	OK			
88	0.4 PPM	OK			
89	0.0 PPM	OK			
90	0.0 PPM	OK			
91	0.0 PPM	OK			
92	0.0 PPM	OK			
93	0.0 PPM	OK			
94	0.1 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 2, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	0.0 PPM	OK			
96	0.0 PPM	OK			
97	0.1 PPM	OK			
98	0.1 PPM	OK			
99	0.0 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-69
102	0.0 PPM	OK			EW-71
103	0.1 PPM	OK			EW-32R
104	0.0 PPM	OK			EW-72
105	0.1 PPM	OK			EW-62
106	0.1 PPM	OK			EW-33B
107	2.2 PPM	OK			EW-63
108	2.0 PPM	OK			EW-77
109	0.1 PPM	OK			EW-64
110	0.2 PPM	OK			EW-79
111	0.1 PPM	OK			TP-8
112	0.0 PPM	OK			EW-81
113	0.1 PPM	OK			EW-80
114	0.6 PPM	OK			EW-84
115	0.1 PPM	OK			EW-83
116	2.7 PPM	OK			EW-65
117	0.8 PPM	OK			EW-36A
118	48.1 PPM	OK			EW-49
119	412.0 PPM	OK			TP-7
120	1.9 PPM	OK			EW-50
121	0.5 PPM	OK			TP-6
122	0.7 PPM	OK			EW-61
123	0.5 PPM	OK			EW-85
124	0.3 PPM	OK			EW-88
125	36.8 PPM	OK			EW-48
126	19.2 PPM	OK			EW-60
127	208.0 PPM	OK			EW-87
128	4.4 PPM	OK			EW-38
129	294.0 PPM	OK			EW-86
130	2.0 PPM	OK			EW-90
131	0.6 PPM	OK			TP-5
132	7.1 PPM	OK			EW-68
133	188.0 PPM	OK			EW-52
134	4.6 PPM	OK			TP-4
135	16.6 PPM	OK			EW-89
136	0.3 PPM	OK			EW-93
137	123.0 PPM	OK			EW-92
138	4.9 PPM	OK			EW-91
139	60.8 PPM	OK			EW-51
140	116.0 PPM	OK			EW-67

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 2, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	291.0 PPM	OK			EW-53
142	2.7 PPM	OK			TP-3
143	7.3 PPM	OK			EW-96
144	53.8 PPM	OK			EW-66
145	246.0 PPM	OK			TP-2
146	41400.0 PPM	HIGH_ALRM	36.59866	-82.14742	EW-54
147	3.7 PPM	OK			EW-55
148	8.1 PPM	OK			EW-94
149	1.6 PPM	OK			EW-58
150	1.5 PPM	OK			EW-98
151	21.2 PPM	OK			EW-59
152	7.7 PPM	OK			EW-57
153	6.8 PPM	OK			TP-1
154	19.4 PPM	OK			EW-100
155	3.5 PPM	OK			EW-56
156	0.9 PPM	OK			EW-97
157	0.6 PPM	OK			EW-99
158	5225.0 PPM	HIGH_ALRM	36.59837	-82.14835	EW-95
159	64.8 PPM	OK			EW-82
160	0.7 PPM	OK			EW-78
161	3.9 PPM	OK			EW-42
162	1632.0 PPM	HIGH_ALRM	36.60126	-82.14804	EW-76
163	33.3 PPM	OK			TP-9
164	60.0 PPM	OK			EW-73
165	0.3 PPM	OK			EW-70
166	0.0 PPM	OK			EW-74
167	0.0 PPM	OK			EW-75
168	0.4 PPM	OK			EW-47

Number of locations sampled:	168
Number of exceedance locations:	3

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 71°F Wind: 4 mph S

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

6/2/2025	10:36	ZERO	0.1	PPM
6/2/2025	10:50	SPAN	500.0	PPM

Background Reading:

6/2/2025	10:54	Upwind	0.4	PPM
6/2/2025	10:58	Downwind	0.0	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 168 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON JUNE 2, 2025

0 80 160 240
SCALE IN FEET

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

N

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

CLIENT
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04
DSN. BY:
CHK. BY:
QA/QC BY:
APP. BY:

FILE: 02218208.04
DATE: 6/2/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

June 18, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – June 11, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

On behalf of the City of Bristol (City), SCS Engineers (SCS), is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on June 11, 2025. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). The Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.

Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	4
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	4

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

On June 5, 2025, the City submitted an Alternate Remedy Request for corrective actions for exceedances at four specific locations. Details regarding the specific proposed corrective actions are outlined in the letter request.

A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	6/11/25 Event	6/11/25 Event Result	Comments
EW-54	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-66	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-67	4/18/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-95	4/18/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-82	5/19/25	1-Month Retest	Failed	Requires 1-Month Retest Follow-Up
EW-76	6/2/25	10-Day Retest	Passed	Requires 1-Month Retest

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,

William J. Fabrie
Project Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WJF

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	1.2 PPM	OK			Start Serpentine Route
2	1.1 PPM	OK			
3	6.4 PPM	OK			
4	1.0 PPM	OK			
5	0.8 PPM	OK			
6	0.9 PPM	OK			
7	0.9 PPM	OK			
8	0.8 PPM	OK			
9	4.1 PPM	OK			
10	0.9 PPM	OK			
11	1.3 PPM	OK			
12	0.8 PPM	OK			
13	1.1 PPM	OK			
14	1.8 PPM	OK			
15	1.7 PPM	OK			
16	2.5 PPM	OK			
17	0.5 PPM	OK			
18	0.5 PPM	OK			
19	1.6 PPM	OK			
20	1.7 PPM	OK			
21	0.8 PPM	OK			
22	0.7 PPM	OK			
23	0.5 PPM	OK			
24	1.6 PPM	OK			
25	1.1 PPM	OK			
26	0.8 PPM	OK			
27	0.4 PPM	OK			
28	0.3 PPM	OK			
29	0.3 PPM	OK			
30	0.3 PPM	OK			
31	0.2 PPM	OK			
32	0.2 PPM	OK			
33	15.1 PPM	OK			
34	2.2 PPM	OK			
35	85.8 PPM	OK			
36	29.0 PPM	OK			
37	7.4 PPM	OK			
38	58.5 PPM	OK			
39	3.3 PPM	OK			
40	4.2 PPM	OK			
41	29.9 PPM	OK			
42	0.4 PPM	OK			
43	133.0 PPM	OK			
44	2.9 PPM	OK			
45	1.4 PPM	OK			
46	9.7 PPM	OK			
47	0.2 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.0 PPM	OK			
49	0.1 PPM	OK			
50	0.1 PPM	OK			
51	2.4 PPM	OK			
52	0.3 PPM	OK			
53	0.2 PPM	OK			
54	0.2 PPM	OK			
55	0.4 PPM	OK			
56	0.6 PPM	OK			
57	0.6 PPM	OK			
58	0.1 PPM	OK			
59	0.1 PPM	OK			
60	0.3 PPM	OK			
61	0.3 PPM	OK			
62	0.2 PPM	OK			
63	0.2 PPM	OK			
64	0.0 PPM	OK			
65	2.4 PPM	OK			
66	6.8 PPM	OK			
67	3.4 PPM	OK			
68	6.6 PPM	OK			
69	3.6 PPM	OK			
70	1.2 PPM	OK			
71	0.1 PPM	OK			
72	0.9 PPM	OK			
73	0.8 PPM	OK			
74	1.4 PPM	OK			
75	13.0 PPM	OK			
76	12.0 PPM	OK			
77	0.4 PPM	OK			
78	3.5 PPM	OK			
79	1.6 PPM	OK			
80	83.6 PPM	OK			
81	4.1 PPM	OK			
82	0.0 PPM	OK			
83	0.1 PPM	OK			
84	0.0 PPM	OK			
85	427.0 PPM	OK			
86	1.4 PPM	OK			
87	0.1 PPM	OK			
88	0.4 PPM	OK			
89	0.5 PPM	OK			
90	0.1 PPM	OK			
91	0.9 PPM	OK			
92	0.3 PPM	OK			
93	4.7 PPM	OK			
94	14.6 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	0.3 PPM	OK			
96	0.5 PPM	OK			
97	0.7 PPM	OK			
98	5.0 PPM	OK			
99	0.6 PPM	OK			
100	0.3 PPM	OK			End Serpentine Route
101	333.0 PPM	OK			EW-52
102	16.5 PPM	OK			TP-4
103	223.0 PPM	OK			EW-60
104	2.5 PPM	OK			EW-48
105	0.0 PPM	OK			TP-6
106	0.1 PPM	OK			EW-61
107	0.8 PPM	OK			EW-50
108	13500.0 PPM	HIGH_ALRM	36.59857	-82.14771	EW-67
109	4.5 PPM	OK			EW-47
110	833.0 PPM	HIGH_ALRM	36.59855	-82.14754	EW-54
111	1.4 PPM	OK			EW-55
112	290.0 PPM	OK			EW-92
113	4.5 PPM	OK			EW-91
114	1.0 PPM	OK			EW-96
115	0.5 PPM	OK			TP-2
116	1660.0 PPM	HIGH_ALRM	36.59843	-82.14740	EW-66
117	0.4 PPM	OK			EW-58
118	3.4 PPM	OK			EW-57
119	0.7 PPM	OK			TP-1
120	3.9 PPM	OK			EW-59
121	8.9 PPM	OK			EW-100
122	1.4 PPM	OK			EW-56
123	0.4 PPM	OK			EW-97
124	278.0 PPM	OK			EW-53
125	2.3 PPM	OK			TP-3
126	86.0 PPM	OK			EW-51
127	0.2 PPM	OK			TP-5
128	0.8 PPM	OK			EW-68
129	248.0 PPM	OK			EW-87
130	2.8 PPM	OK			EW-38
131	136.0 PPM	OK			TP-7
132	0.0 PPM	OK			EW-49
133	0.1 PPM	OK			EW-83
134	0.1 PPM	OK			EW-65
135	0.1 PPM	OK			EW-81
136	0.1 PPM	OK			TP-8
137	0.0 PPM	OK			EW-64
138	0.0 PPM	OK			EW-63
139	14.7 PPM	OK			EW-42
140	0.9 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 11, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	3.8 PPM	OK			TP-9
142	0.7 PPM	OK			EW-62
143	0.0 PPM	OK			EW-74
144	0.0 PPM	OK			EW-32R
145	0.1 PPM	OK			EW-69
146	0.3 PPM	OK			EW-71
147	0.2 PPM	OK			EW-72
148	0.0 PPM	OK			EW-70
149	0.4 PPM	OK			EW-73
150	0.5 PPM	OK			EW-78
151	1264.0 PPM	HIGH_ALRM	36.60049	-82.14751	EW-82
152	0.9 PPM	OK			EW-36A
153	1.1 PPM	OK			EW-85
154	0.9 PPM	OK			EW-88
155	138.0 PPM	OK			EW-89
156	5.2 PPM	OK			EW-93
157	2.1 PPM	OK			EW-94
158	0.4 PPM	OK			EW-98
159	1.2 PPM	OK			EW-99
160	36.9 PPM	OK			EW-95
161	11.1 PPM	OK			EW-90
162	3.2 PPM	OK			EW-86
163	0.9 PPM	OK			EW-84
164	0.8 PPM	OK			EW-80
165	1.2 PPM	OK			EW-79
166	2.6 PPM	OK			EW-77
167	0.0 PPM	OK			EW-33B
168	0.3 PPM	OK			EW-75

Number of locations sampled:	168
Number of exceedance locations:	4

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Sunny, 84°F Wind: 3 mph SE

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

6/11/2025	11:08	ZERO	0.1	PPM
6/11/2025	11:09	SPAN	502.0	PPM

Background Reading:

6/11/2025	11:12	Upwind	2.5	PPM
6/11/2025	11:18	Downwind	1.3	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 168 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON JUNE 11, 2025

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

CLIENT
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04
DSN. BY:
CHK. BY:
QA/QC BY:
APP. BY:

FILE: 02218208.04
DATE: 6/11/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

June 25, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – June 16, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

On behalf of the City of Bristol (City), SCS Engineers (SCS), is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on June 16, 2025. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). The Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.

Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	3
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	3

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

On June 5, 2025, the City submitted an Alternate Remedy Request for corrective actions for exceedances at four specific locations. Details regarding the specific proposed corrective actions are outlined in the letter request.

A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	6/16/25 Event	6/16/25 Event Result	Comments
EW-54	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-66	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-67	4/18/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-95	4/18/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-82	5/19/25	1-Month Retest Follow-Up	Passed	Exceedance Resolved
EW-76	6/2/25	N/A	Passed	Requires 1-Month Retest

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,

Wylie R Hicklin
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 16, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	0.9 PPM	OK			Start Serpentine Route
2	1.1 PPM	OK			
3	0.9 PPM	OK			
4	0.8 PPM	OK			
5	0.8 PPM	OK			
6	0.7 PPM	OK			
7	0.8 PPM	OK			
8	1.1 PPM	OK			
9	0.7 PPM	OK			
10	0.7 PPM	OK			
11	0.6 PPM	OK			
12	1.9 PPM	OK			
13	0.8 PPM	OK			
14	2.3 PPM	OK			
15	2.1 PPM	OK			
16	2.1 PPM	OK			
17	1.9 PPM	OK			
18	1.3 PPM	OK			
19	2.6 PPM	OK			
20	1.0 PPM	OK			
21	1.4 PPM	OK			
22	1.1 PPM	OK			
23	1.7 PPM	OK			
24	2.2 PPM	OK			
25	0.6 PPM	OK			
26	3.2 PPM	OK			
27	1.1 PPM	OK			
28	0.6 PPM	OK			
29	0.6 PPM	OK			
30	0.5 PPM	OK			
31	0.4 PPM	OK			
32	2.8 PPM	OK			
33	5.9 PPM	OK			
34	1.8 PPM	OK			
35	0.7 PPM	OK			
36	1.6 PPM	OK			
37	18.4 PPM	OK			
38	1.4 PPM	OK			
39	1.2 PPM	OK			
40	5.1 PPM	OK			
41	3.3 PPM	OK			
42	0.5 PPM	OK			
43	0.5 PPM	OK			
44	0.5 PPM	OK			
45	0.3 PPM	OK			
46	0.2 PPM	OK			
47	0.1 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 16, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.1 PPM	OK			
49	0.1 PPM	OK			
50	0.3 PPM	OK			
51	0.3 PPM	OK			
52	0.5 PPM	OK			
53	0.3 PPM	OK			
54	0.2 PPM	OK			
55	0.3 PPM	OK			
56	0.1 PPM	OK			
57	0.2 PPM	OK			
58	1.0 PPM	OK			
59	4.8 PPM	OK			
60	12.0 PPM	OK			
61	1.0 PPM	OK			
62	1.2 PPM	OK			
63	1.0 PPM	OK			
64	1.8 PPM	OK			
65	1.0 PPM	OK			
66	2.9 PPM	OK			
67	1.1 PPM	OK			
68	21.6 PPM	OK			
69	6.9 PPM	OK			
70	7.6 PPM	OK			
71	2.5 PPM	OK			
72	1.1 PPM	OK			
73	2.2 PPM	OK			
74	1.1 PPM	OK			
75	1.7 PPM	OK			
76	2.8 PPM	OK			
77	2.6 PPM	OK			
78	1.4 PPM	OK			
79	1.6 PPM	OK			
80	126.0 PPM	OK			
81	2.8 PPM	OK			
82	150.0 PPM	OK			
83	2.8 PPM	OK			
84	2.1 PPM	OK			
85	4.0 PPM	OK			
86	1.5 PPM	OK			
87	1.4 PPM	OK			
88	1.9 PPM	OK			
89	2.1 PPM	OK			
90	3.1 PPM	OK			
91	4.1 PPM	OK			
92	2.1 PPM	OK			
93	2.0 PPM	OK			
94	14.5 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 16, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	7.7 PPM	OK			
96	4.0 PPM	OK			
97	4.2 PPM	OK			
98	1.7 PPM	OK			
99	1.6 PPM	OK			
100	1.8 PPM	OK			End Serpentine Route
101	97.4 PPM	OK			EW-52
102	7.5 PPM	OK			TP-4
103	95.7 PPM	OK			EW-60
104	25.4 PPM	OK			EW-48
105	19.1 PPM	OK			TP-6
106	8.3 PPM	OK			EW-61
107	7.5 PPM	OK			EW-50
108	2290.0 PPM	HIGH_ALRM	36.59857	-82.14771	EW-67
109	9.7 PPM	OK			EW-47
110	2967.0 PPM	HIGH_ALRM	36.59855	-82.14754	EW-54
111	2.2 PPM	OK			EW-55
112	34.7 PPM	OK			EW-92
113	3.1 PPM	OK			EW-91
114	2.9 PPM	OK			EW-96
115	1.8 PPM	OK			TP-2
116	894.0 PPM	HIGH_ALRM	36.59843	-82.14740	EW-66
117	1.7 PPM	OK			EW-58
118	7.4 PPM	OK			EW-57
119	7.7 PPM	OK			TP-1
120	4.3 PPM	OK			EW-59
121	38.3 PPM	OK			EW-100
122	10.5 PPM	OK			EW-56
123	2.7 PPM	OK			EW-97
124	5.8 PPM	OK			EW-53
125	1.7 PPM	OK			TP-3
126	2.7 PPM	OK			EW-51
127	2.6 PPM	OK			TP-5
128	12.9 PPM	OK			EW-68
129	81.4 PPM	OK			EW-87
130	15.6 PPM	OK			EW-38
131	82.9 PPM	OK			TP-7
132	15.6 PPM	OK			EW-49
133	2.2 PPM	OK			EW-83
134	1.6 PPM	OK			EW-65
135	1.5 PPM	OK			EW-81
136	1.9 PPM	OK			TP-8
137	2.1 PPM	OK			EW-64
138	1.9 PPM	OK			EW-63
139	5.6 PPM	OK			EW-42
140	6.8 PPM	OK			EW-76

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 16, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	9.9 PPM	OK			TP-9
142	1.7 PPM	OK			EW-62
143	1.9 PPM	OK			EW-74
144	1.4 PPM	OK			EW-32R
145	1.2 PPM	OK			EW-69
146	1.3 PPM	OK			EW-71
147	1.3 PPM	OK			EW-72
148	1.3 PPM	OK			EW-70
149	2.2 PPM	OK			EW-73
150	5.2 PPM	OK			EW-78
151	3.7 PPM	OK			EW-82
152	1.5 PPM	OK			EW-36A
153	1.5 PPM	OK			EW-85
154	1.5 PPM	OK			EW-88
155	15.1 PPM	OK			EW-89
156	1.3 PPM	OK			EW-93
157	1.2 PPM	OK			EW-94
158	1.1 PPM	OK			EW-98
159	3.8 PPM	OK			EW-99
160	392.0 PPM	OK			EW-95
161	12.1 PPM	OK			EW-90
162	25.6 PPM	OK			EW-86
163	1.0 PPM	OK			EW-84
164	1.0 PPM	OK			EW-80
165	1.5 PPM	OK			EW-79
166	1.1 PPM	OK			EW-77
167	0.8 PPM	OK			EW-33B
168	0.8 PPM	OK			EW-75

Number of locations sampled:	168
Number of exceedance locations:	3

NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Cloudy-Light Rain, 73°F Wind: 8 mph NE

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

6/16/2025	11:10	ZERO	0.3	PPM
6/16/2025	11:14	SPAN	501.0	PPM

Background Reading:

6/16/2025	11:16	Upwind	1.8	PPM
6/16/2025	11:21	Downwind	1.2	PPM

NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 168 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON JUNE 16, 2025

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

CLIENT
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.04 | DSN. BY: | Q/A RVW BY:
DRC. BY: | CHK. BY: | APP. BY:

FILE: 02218208.04
DATE: 6/16/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

July 2, 2025
File No. 02218208.04

Mr. Jonathan Chapman
Enforcement Specialist
Virginia Department of Environmental Quality
SW Regional Office
355-A Deadmore Street
Abingdon, VA 24210

Subject: Weekly Surface Emissions Monitoring Event – June 24, 2025
Bristol Integrated Solid Waste Facility – Bristol, Virginia

Dear Mr. Chapman:

On behalf of the City of Bristol (City), SCS Engineers (SCS), is pleased to submit the results of the Weekly Surface Emissions Monitoring event performed at the Bristol Integrated Solid Waste Management Facility located in Bristol, Virginia on June 24, 2025. This Weekly Surface Emissions Monitoring (SEM) Event was performed in accordance with Appendix A.1.i of the Consent Decree between the Commonwealth of Virginia and the City of Bristol.

The monitoring generally conforms to the requirements of 40 CFR 63.1960(c) and (d), and 40 CFR 60.36f(c) and (d), and 40 CFR 60, Appendix A, Method 21. The landfill gas (LFG) collection system is required to operate such that the methane concentration is less than 500 ppm above background at the landfill surface.

The monitoring route includes the entire waste footprint of the Permit No. 588 Landfill. Sampling was conducted with a Thermo Scientific TVA-2020 Flame Ionization Detector (FID) at 30-meter intervals and where visual observations indicated the potential for elevated concentrations of LFG, such as distressed vegetation and surface cover cracks. In addition, in accordance with 40 CFR 63.1958(d)(ii)(2) and 40 CFR 60.34f(d), monitoring was conducted at all surface cover penetrations within the waste footprint, including at the temperature probes. The approximate monitoring route and sampling locations are presented in the attached Drawing.

At the time of monitoring, all areas of the Permit No. 588 Landfill footprint are subject to regulatory monitoring based on the regulatory schedule stipulated in 40 CFR 63.1960(b) and 40 CFR 60.36f(b). The Permit No. 588 Landfill has a surface area of approximately 17.3 acres. Therefore, the minimum number of sampling points to cover the appropriate portion of the landfill footprint, utilizing a 30-meter grid interval, is approximately 82 (4.75 points per acre). A summary of the results of the surface emissions monitoring is provided in Table 1.

Table 1. Summary of Surface Emissions Monitoring

Description	Quantity
Number of Points Sampled	168
Number of Points in Serpentine Route	100
Number of Points at Surface Cover Penetrations	68
Number of Exceedances	4
Number of Serpentine Exceedances	0
Number of Pipe Penetration Exceedances	4

REMONITORING OF ONGOING EXCEEDANCES

In accordance with 40 CFR 63.1960(c)(4)(ii) and 40 CFR 60.36f(c)(4)(ii), corrective actions and a remonitoring event are to be performed within 10 days of the initial exceedance. In accordance with 40 CFR 63.1960(c)(4)(iii) and 40 CFR 60.36f(c)(4)(iii) additional corrective actions and a second 10-day retest are to be performed if the initial 10-day retest indicates methane values greater than the regulatory threshold. The Facility performs corrective actions, as necessary, including wellhead vacuum adjustments, the installation of well-bore seals, and addition of soil cover prior to weekly monitoring events at locations that previously exhibited elevated methane concentrations.

In accordance with 40 CFR 63.1960(c)(4)(v) and 40 CFR 60.36f(c)(4)(v) a new well or collection device must be installed or an alternate remedy must be submitted within 120 days at locations that continue to exhibit methane concentrations above the regulatory threshold for two consecutive re-tests.

On June 5, 2025, the City submitted an Alternate Remedy Request for corrective actions for exceedances at four specific locations. Details regarding the specific proposed corrective actions are outlined in the letter request.

A summary of ongoing exceedance points is provided in Table 2.

Table 2. Ongoing Weekly SEM Exceedances

Point ID	Initial Exceedance Date	6/24/25 Event	6/24/25 Event Result	Comments
EW-54	2/24/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-66	2/24/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-67	4/18/25	N/A	Failed	Alternate Remedy Requested – undergoing corrective actions
EW-95	4/18/25	N/A	Passed	Alternate Remedy Requested – undergoing corrective actions
EW-76	6/2/25	N/A	Passed	Requires 1-Month Retest

If you have questions or require additional information, please contact either of the undersigned.

Sincerely,

Wylie R Hicklin
Staff Professional
SCS Engineers

Lucas S. Nachman
Senior Project Professional
SCS Engineers

LSN/WRH

cc: Randall Eads, City of Bristol
Jonathan Hayes, City of Bristol
Laura Socia, City of Bristol
Susan “Tracey” Blalock, VDEQ

Encl. Surface Emissions Monitoring Results
Bristol SEM Route Drawing

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 24, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
1	0.2 PPM	OK			Start Serpentine Route
2	0.3 PPM	OK			
3	0.4 PPM	OK			
4	0.0 PPM	OK			
5	0.1 PPM	OK			
6	0.0 PPM	OK			
7	0.0 PPM	OK			
8	0.1 PPM	OK			
9	0.7 PPM	OK			
10	0.0 PPM	OK			
11	0.6 PPM	OK			
12	0.5 PPM	OK			
13	0.7 PPM	OK			
14	0.2 PPM	OK			
15	1.9 PPM	OK			
16	1.3 PPM	OK			
17	0.4 PPM	OK			
18	0.3 PPM	OK			
19	1.8 PPM	OK			
20	0.1 PPM	OK			
21	1.2 PPM	OK			
22	1.2 PPM	OK			
23	2.1 PPM	OK			
24	7.4 PPM	OK			
25	4.5 PPM	OK			
26	1.9 PPM	OK			
27	0.7 PPM	OK			
28	16.1 PPM	OK			
29	7.2 PPM	OK			
30	440.0 PPM	OK			
31	0.2 PPM	OK			
32	0.6 PPM	OK			
33	6.8 PPM	OK			
34	16.3 PPM	OK			
35	6.8 PPM	OK			
36	0.0 PPM	OK			
37	0.0 PPM	OK			
38	0.0 PPM	OK			
39	0.2 PPM	OK			
40	0.0 PPM	OK			
41	0.8 PPM	OK			
42	0.0 PPM	OK			
43	0.0 PPM	OK			
44	0.0 PPM	OK			
45	0.1 PPM	OK			
46	0.0 PPM	OK			
47	0.0 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 24, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
48	0.0 PPM	OK			
49	0.0 PPM	OK			
50	0.0 PPM	OK			
51	0.1 PPM	OK			
52	0.4 PPM	OK			
53	0.2 PPM	OK			
54	0.5 PPM	OK			
55	0.3 PPM	OK			
56	0.4 PPM	OK			
57	2.6 PPM	OK			
58	0.8 PPM	OK			
59	1.0 PPM	OK			
60	8.2 PPM	OK			
61	5.0 PPM	OK			
62	2.9 PPM	OK			
63	1.7 PPM	OK			
64	1.3 PPM	OK			
65	1.3 PPM	OK			
66	6.9 PPM	OK			
67	8.8 PPM	OK			
68	11.8 PPM	OK			
69	1.3 PPM	OK			
70	0.6 PPM	OK			
71	0.2 PPM	OK			
72	3.4 PPM	OK			
73	0.9 PPM	OK			
74	6.1 PPM	OK			
75	8.8 PPM	OK			
76	0.5 PPM	OK			
77	0.3 PPM	OK			
78	0.9 PPM	OK			
79	0.2 PPM	OK			
80	0.5 PPM	OK			
81	0.0 PPM	OK			
82	0.1 PPM	OK			
83	0.0 PPM	OK			
84	0.1 PPM	OK			
85	0.0 PPM	OK			
86	0.0 PPM	OK			
87	0.0 PPM	OK			
88	0.0 PPM	OK			
89	0.0 PPM	OK			
90	0.0 PPM	OK			
91	5.4 PPM	OK			
92	0.8 PPM	OK			
93	1.2 PPM	OK			
94	0.3 PPM	OK			

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 24, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
95	0.0 PPM	OK			
96	0.2 PPM	OK			
97	0.1 PPM	OK			
98	0.1 PPM	OK			
99	0.6 PPM	OK			
100	0.0 PPM	OK			End Serpentine Route
101	0.0 PPM	OK			EW-69
102	0.1 PPM	OK			EW-71
103	0.0 PPM	OK			EW-32R
104	0.1 PPM	OK			EW-72
105	0.0 PPM	OK			EW-74
106	0.0 PPM	OK			EW-62
107	0.0 PPM	OK			EW-33B
108	0.1 PPM	OK			EW-63
109	0.1 PPM	OK			EW-77
110	0.2 PPM	OK			EW-64
111	0.1 PPM	OK			EW-79
112	1.6 PPM	OK			TP-8
113	0.4 PPM	OK			EW-81
114	0.1 PPM	OK			EW-80
115	1.9 PPM	OK			EW-84
116	0.6 PPM	OK			EW-83
117	0.2 PPM	OK			EW-65
118	5.0 PPM	OK			EW-36A
119	1535.0 PPM	HIGH_ALRM	36.59978	-82.14805	EW-49
120	84.9 PPM	OK			TP-7
121	0.6 PPM	OK			EW-50
122	66.9 PPM	OK			TP-6
123	2.3 PPM	OK			EW-61
124	0.9 PPM	OK			EW-85
125	1.3 PPM	OK			EW-88
126	27.2 PPM	OK			EW-48
127	43.3 PPM	OK			EW-87
128	273.0 PPM	OK			EW-38
129	460.0 PPM	OK			EW-86
130	184.0 PPM	OK			EW-90
131	1.4 PPM	OK			TP-5
132	4.8 PPM	OK			EW-68
133	146.0 PPM	OK			EW-52
134	6.8 PPM	OK			TP-4
135	17.3 PPM	OK			EW-89
136	8.7 PPM	OK			EW-93
137	65.4 PPM	OK			EW-92
138	37.9 PPM	OK			EW-55
139	8.4 PPM	OK			EW-94
140	281.0 PPM	OK			EW-54

EXHIBIT 1. SURFACE EMISSIONS MONITORING RESULTS
WEEKLY MONITORING EVENT - JUNE 24, 2025
BRISTOL INTEGRATED SOLID WASTE FACILITY - BRISTOL, VIRGINIA

ID #	Methane Concentration	Compliance	GPS Coordinates Lat.	Long.	Comments
141	14.0 PPM	OK			EW-91
142	556.0 PPM	HIGH_ALRM	36.59884	-82.14787	EW-51
143	2951.0 PPM	HIGH_ALRM	36.59857	-82.14771	EW-67
144	2.9 PPM	OK			EW-47
145	6.2 PPM	OK			TP-2
146	717.0 PPM	HIGH_ALRM	36.59843	-82.14740	EW-66
147	0.4 PPM	OK			EW-96
148	1.4 PPM	OK			TP-3
149	39.7 PPM	OK			EW-53
150	0.5 PPM	OK			TP-1
151	9.2 PPM	OK			EW-57
152	105.0 PPM	OK			EW-58
153	0.8 PPM	OK			EW-98
154	19.1 PPM	OK			EW-59
155	12.0 PPM	OK			EW-100
156	0.3 PPM	OK			EW-56
157	0.8 PPM	OK			EW-97
158	1.8 PPM	OK			EW-99
159	125.0 PPM	OK			EW-95
160	401.0 PPM	OK			EW-60
161	93.9 PPM	OK			EW-82
162	7.9 PPM	OK			EW-78
163	107.0 PPM	OK			EW-42
164	254.0 PPM	OK			EW-76
165	4.0 PPM	OK			TP-9
166	0.9 PPM	OK			EW-73
167	0.0 PPM	OK			EW-70
168	0.6 PPM	OK			EW-75

Number of locations sampled:	168
Number of exceedance locations:	4

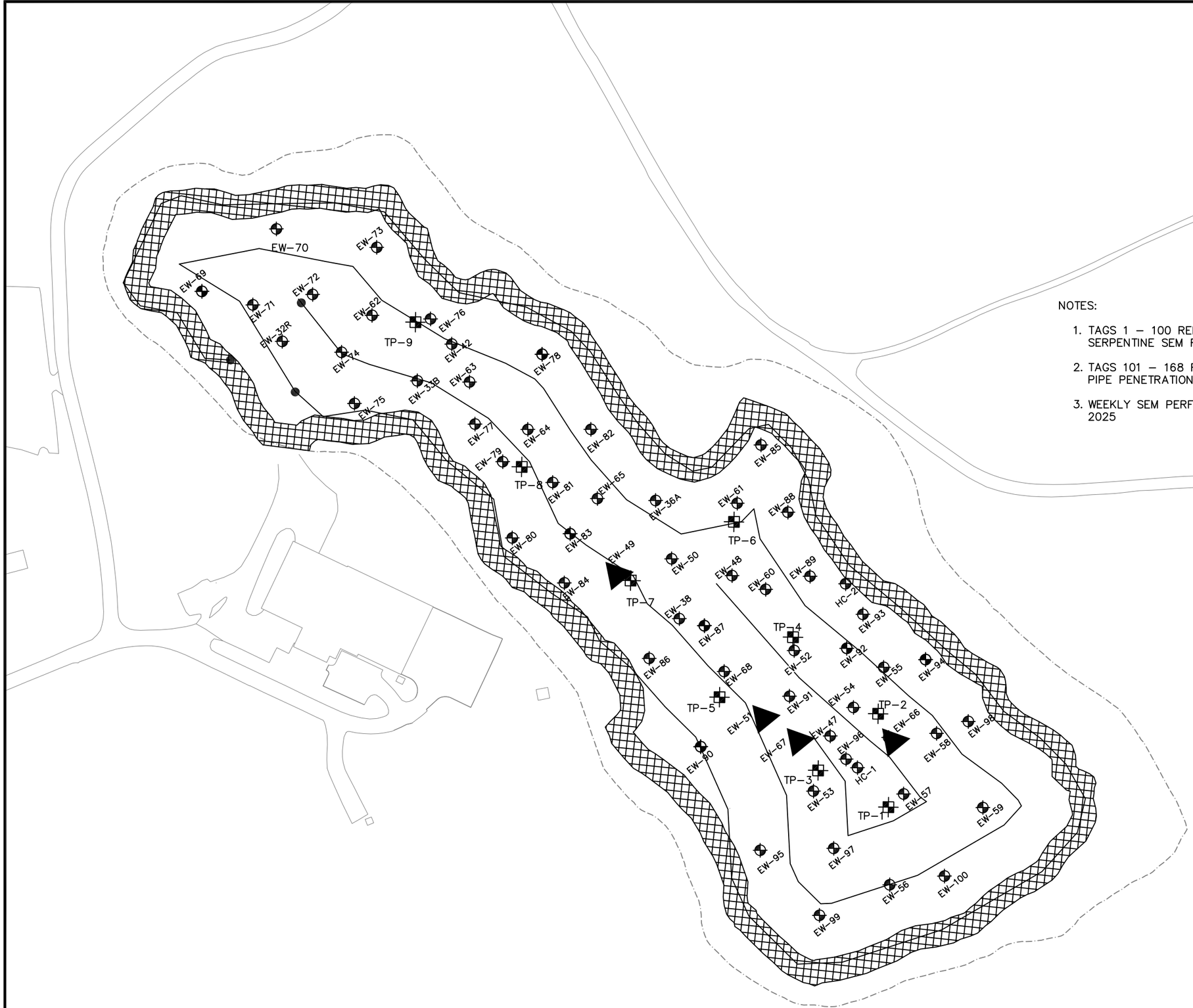
NOTES:
Points 1 through 100 represent serpentine SEM route.
Points 101 through 168 represent SEM at Pipe Penetrations
Weather Conditions: Passing Clouds, 90°F Wind: 2 mph S

Sampling Calibration: Methane - 500 ppm, Zero Air - 0.0 ppm

6/24/2025	11:04	ZERO	0.0	PPM
6/24/2025	11:08	SPAN	500.0	PPM

Background Reading:

6/24/2025	11:12	Upwind	0.5	PPM
6/24/2025	11:27	Downwind	0.0	PPM



NOTES:

1. TAGS 1 – 100 REPRESENT SERPENTINE SEM ROUTE
2. TAGS 101 – 168 REPRESENT SEM AT PIPE PENETRATIONS
3. WEEKLY SEM PERFORMED ON JUNE 24, 2025

0 80 160 240
SCALE IN FEET

N

LEGEND

- SEM ROUTE
- GAS WELL
- TEMPERATURE PROBE
- 79 EXCEEDANCE LOCATION
- 75 MONITORING ROUTE ENDPOINT

NO.	REVISION	DATE

SHEET TITLE
SEM ROUTE WITH BUFFER AREA

PROJECT TITLE
SURFACE EMISSIONS MONITORING
SOLID WASTE PERMIT #588

CLIENT
CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO.	DWN. BY:	Q/A RVW BY:
02218208.04		
DSN. BY:	CHK. BY:	APP. BY:

FILE: 02218208.04
DATE: 6/24/25
SCALE: AS SHOWN
DRAWING NO. 1 of 1

Appendix B

In-Waste Temperatures on Select Days in June

Appendix B Figures

Figure B - 1 Average Temperatures Recorded by TP-1 on June 4, 2025

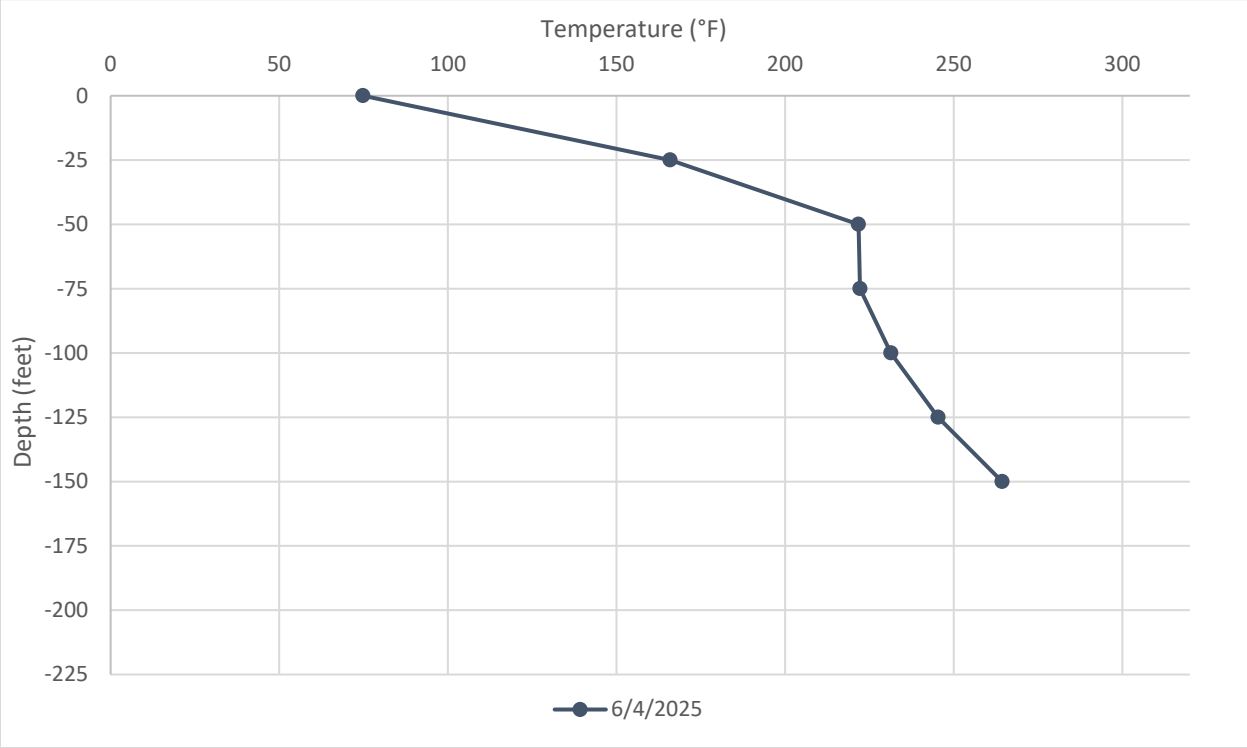


Figure B - 2 Average Temperatures Recorded by TP-1 on June 11, 2025

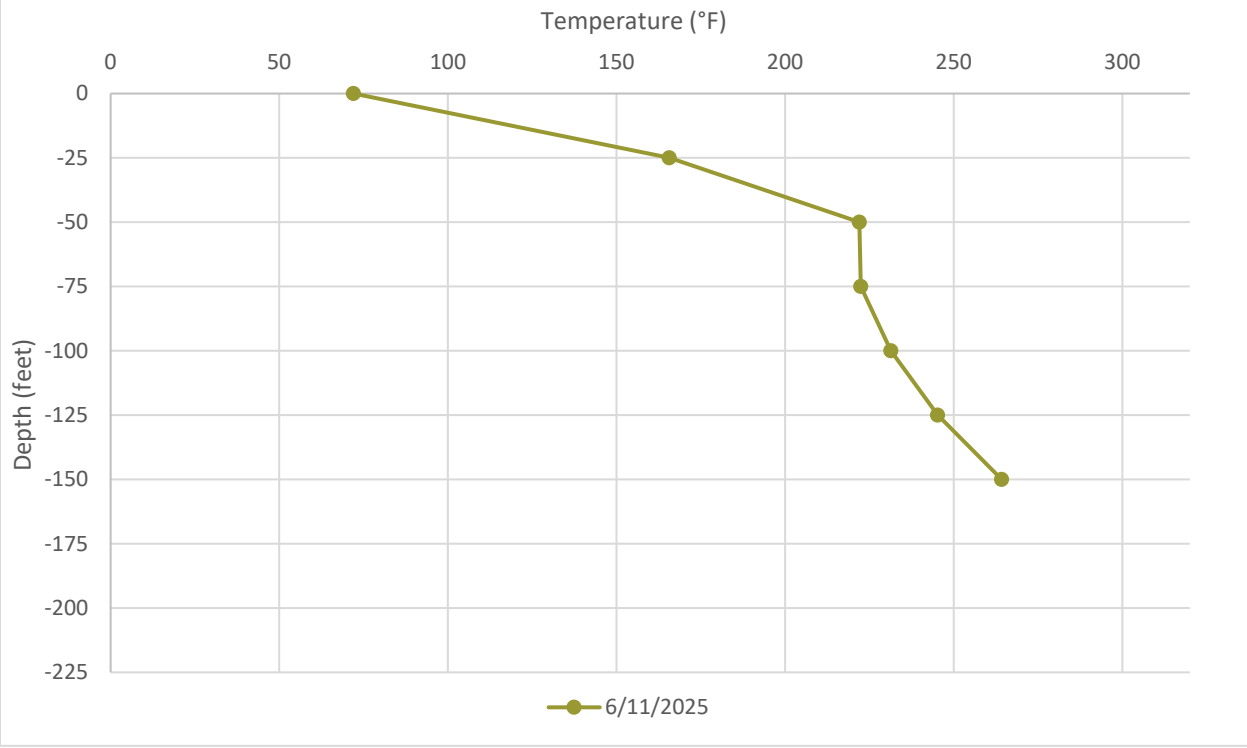


Figure B - 3 Average Temperatures Recorded by TP-1 on June 18, 2025

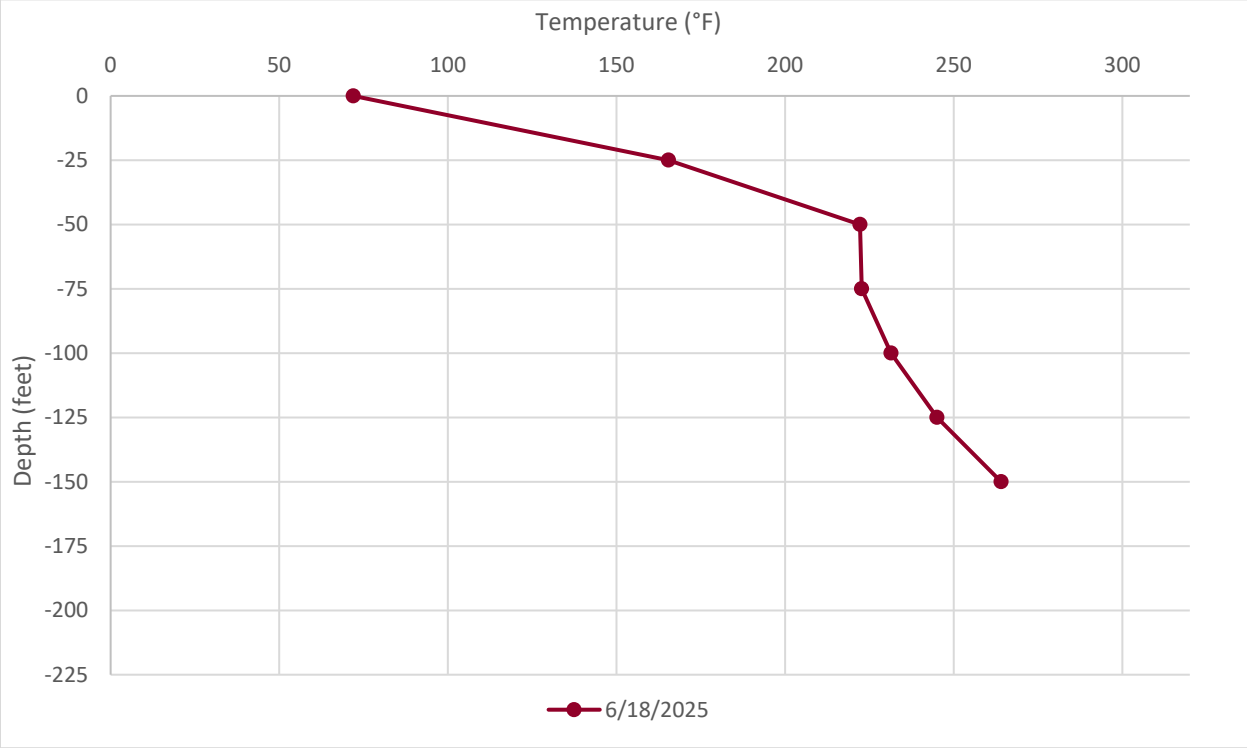


Figure B - 4 Average Temperatures Recorded by TP-1 on June 25, 2025

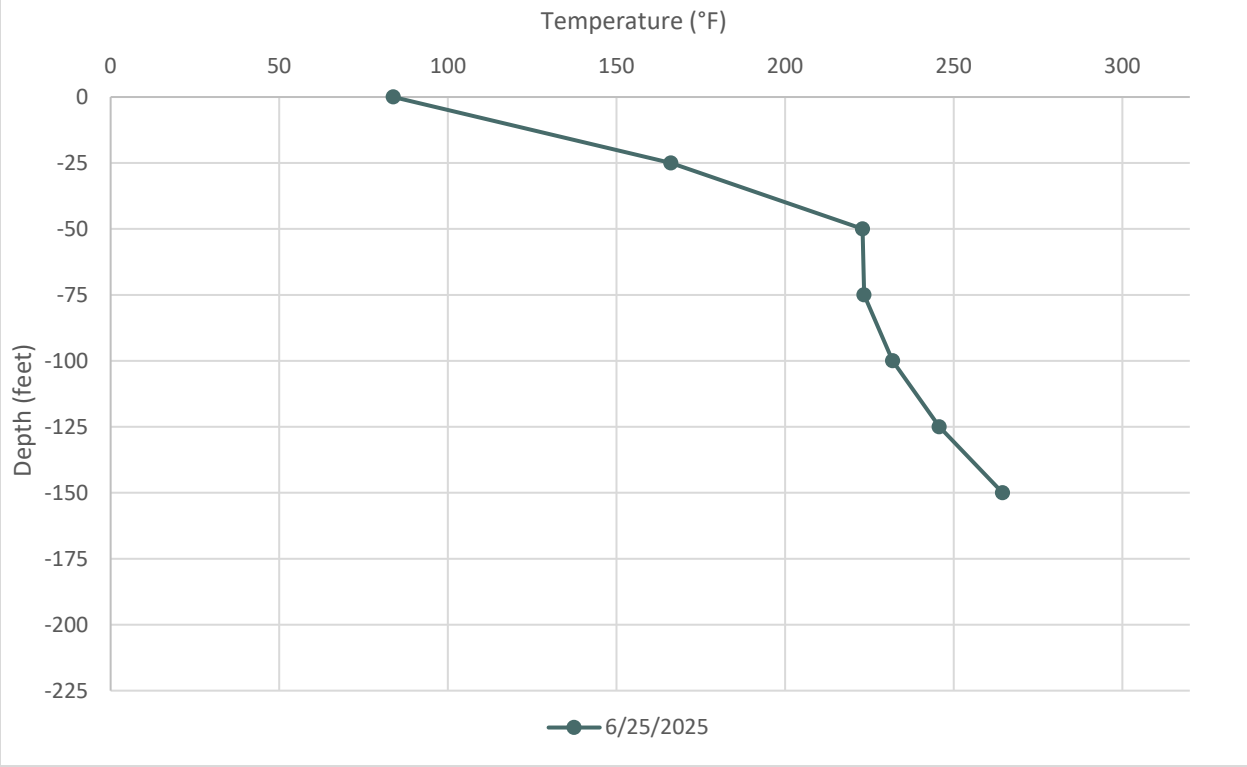


Figure B - 5 Average Temperatures Recorded by TP-3 on June 4, 2025

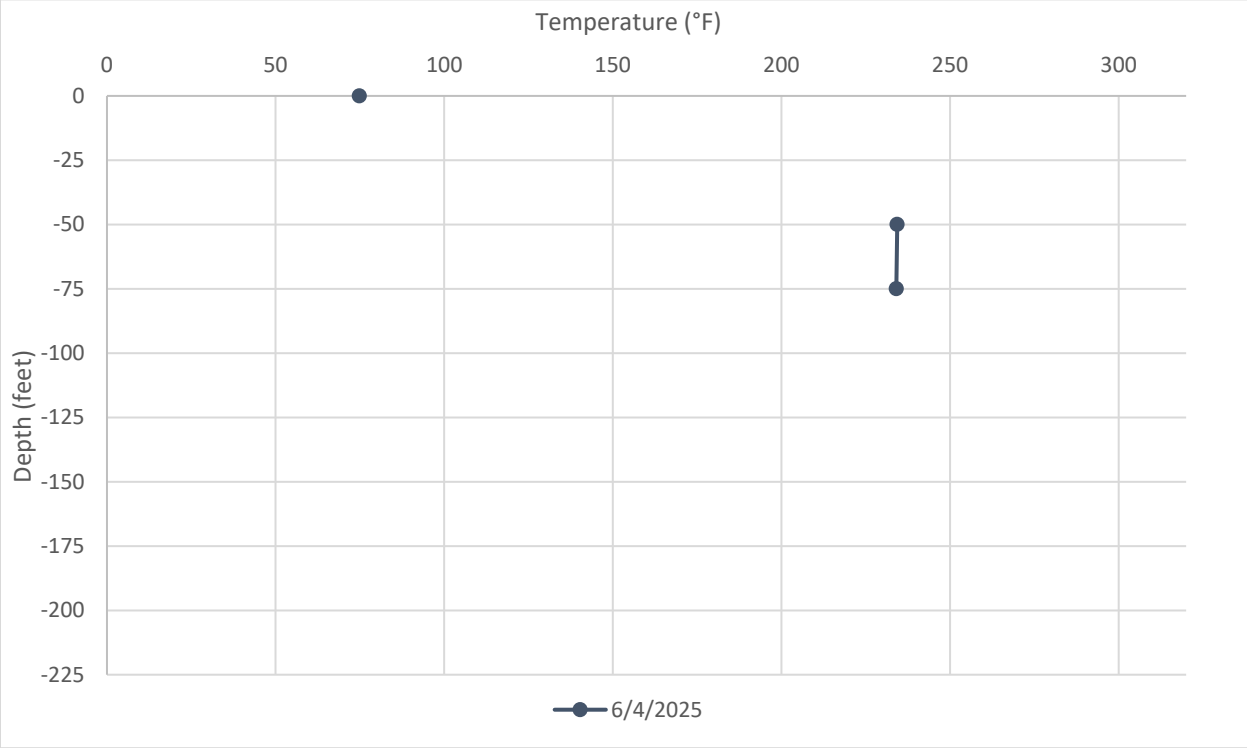


Figure B - 6 Average Temperatures Recorded by TP-3 on June 11, 2025

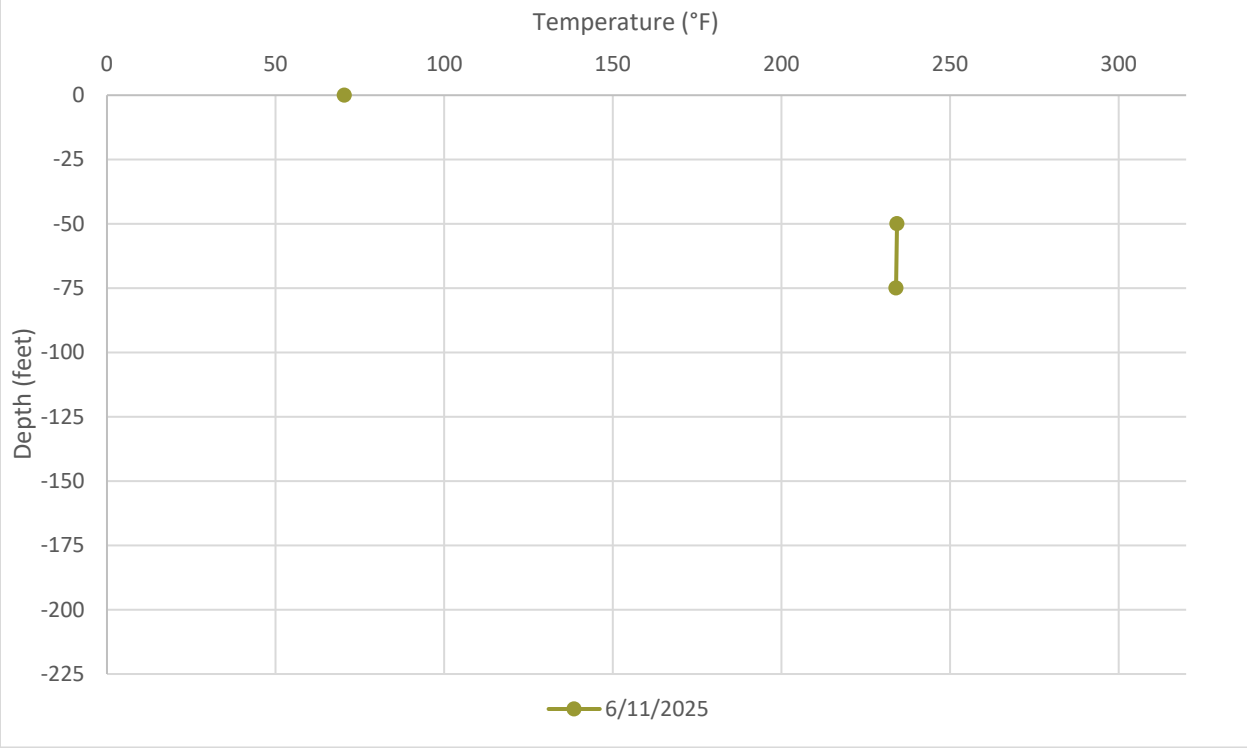


Figure B - 7 Average Temperatures Recorded by TP-3 on June 18, 2025

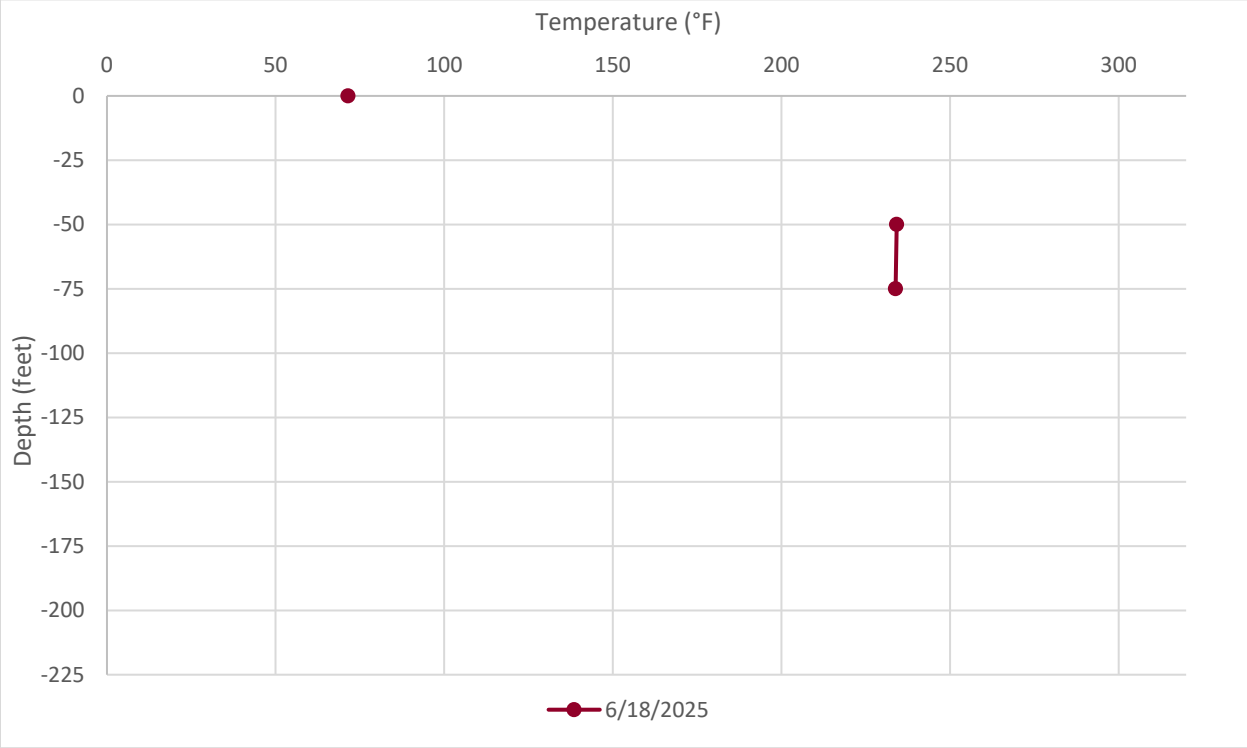


Figure B - 8 Average Temperatures Recorded by TP-3 on June 25, 2025

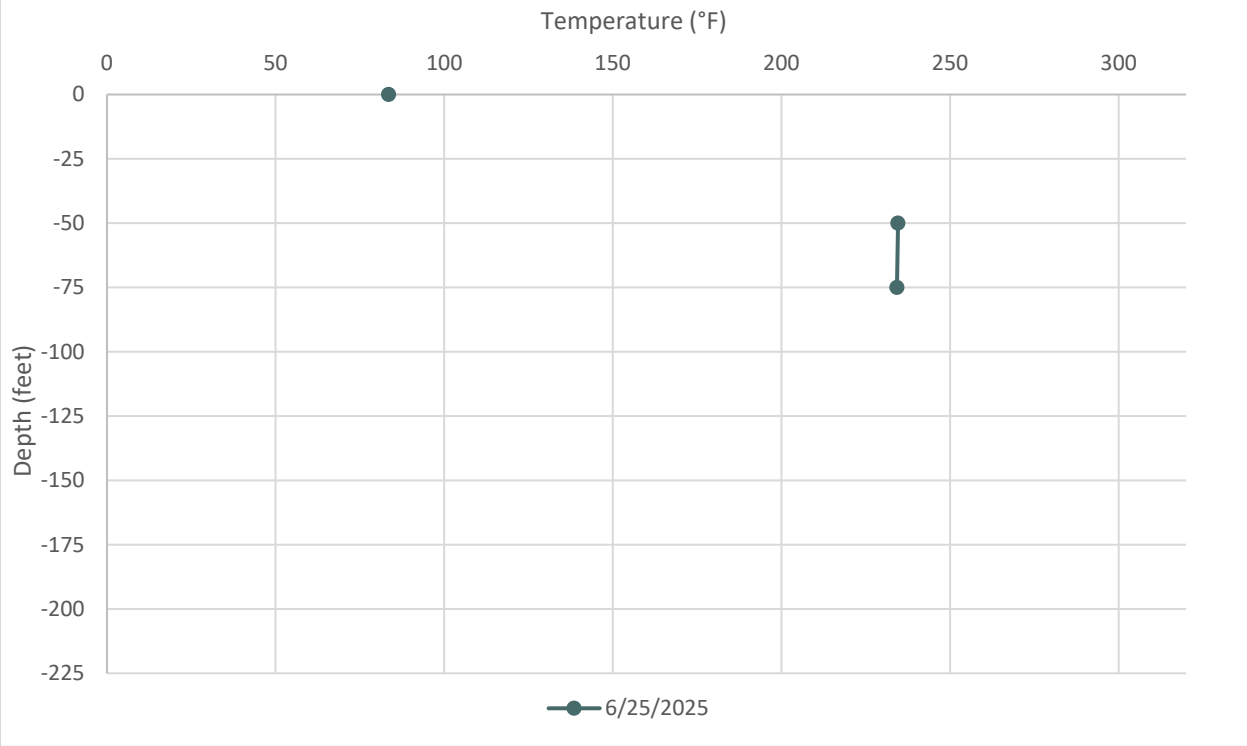


Figure B - 9 Average Temperatures Recorded by TP-5 on June 4, 2025

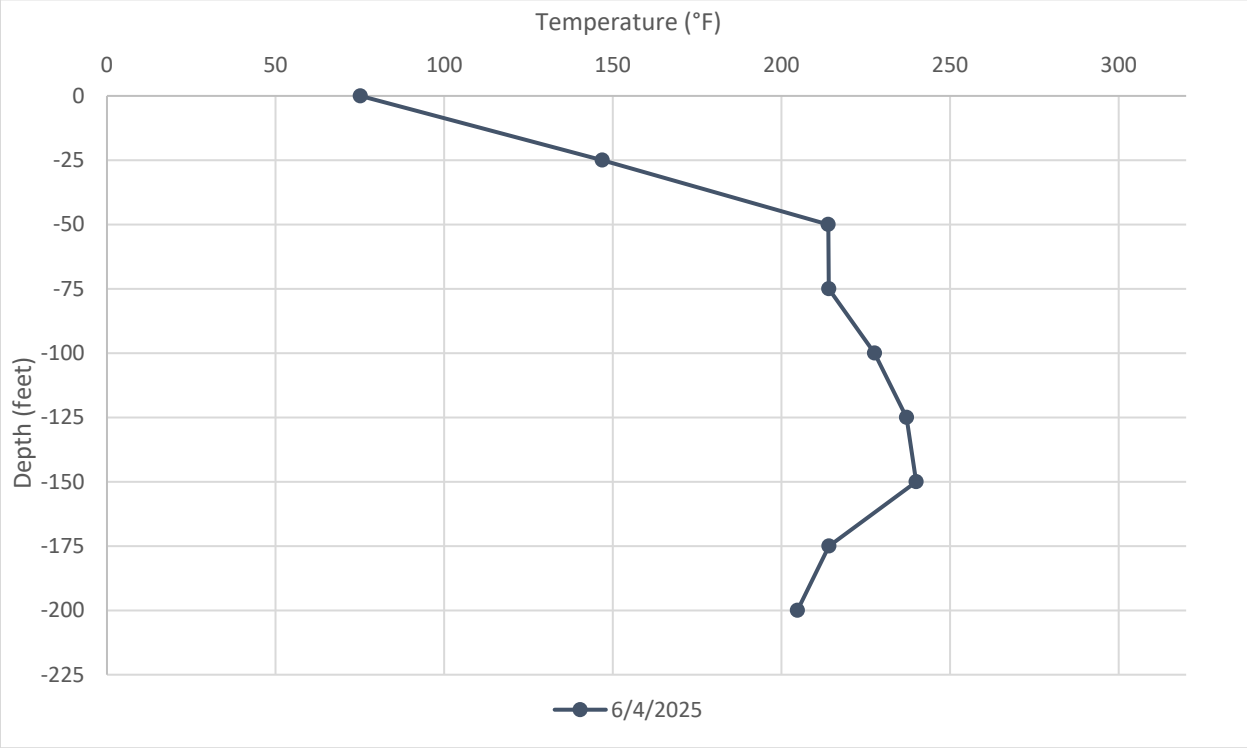


Figure B - 10 Average Temperatures Recorded by TP-5 on June 11, 2025

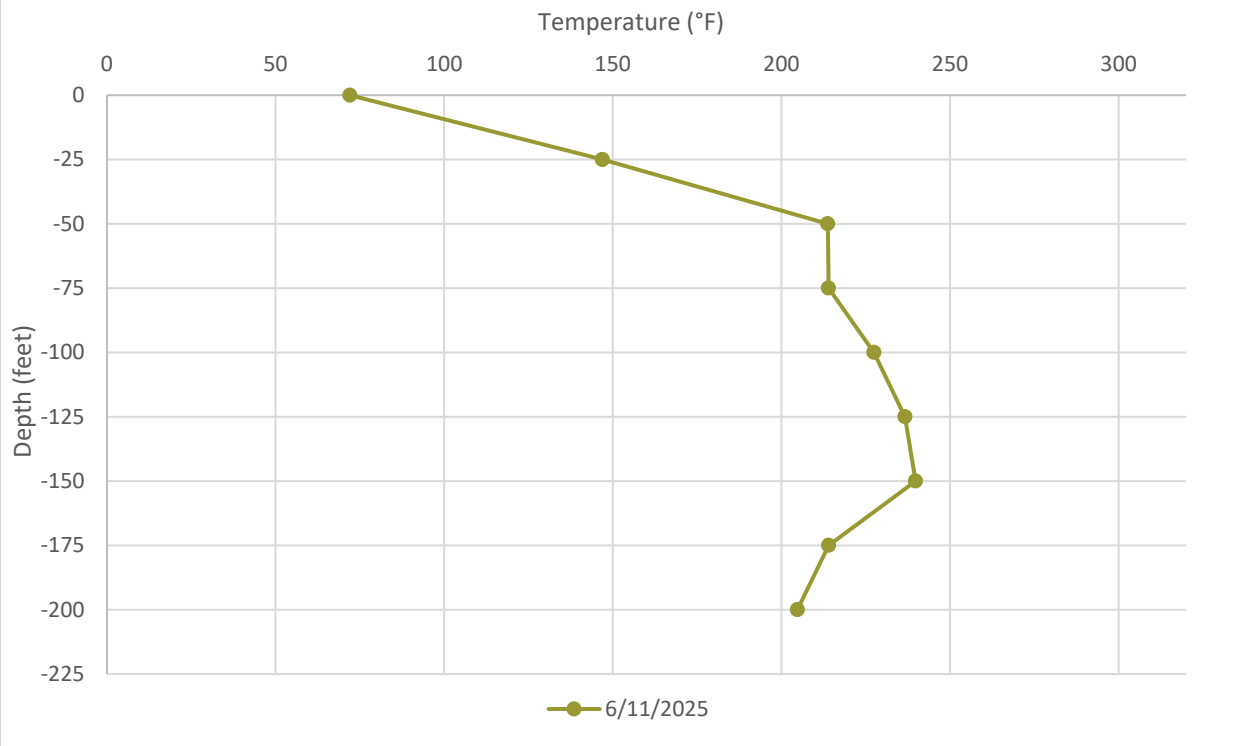


Figure B - 11 Average Temperatures Recorded by TP-5 on June 18, 2025

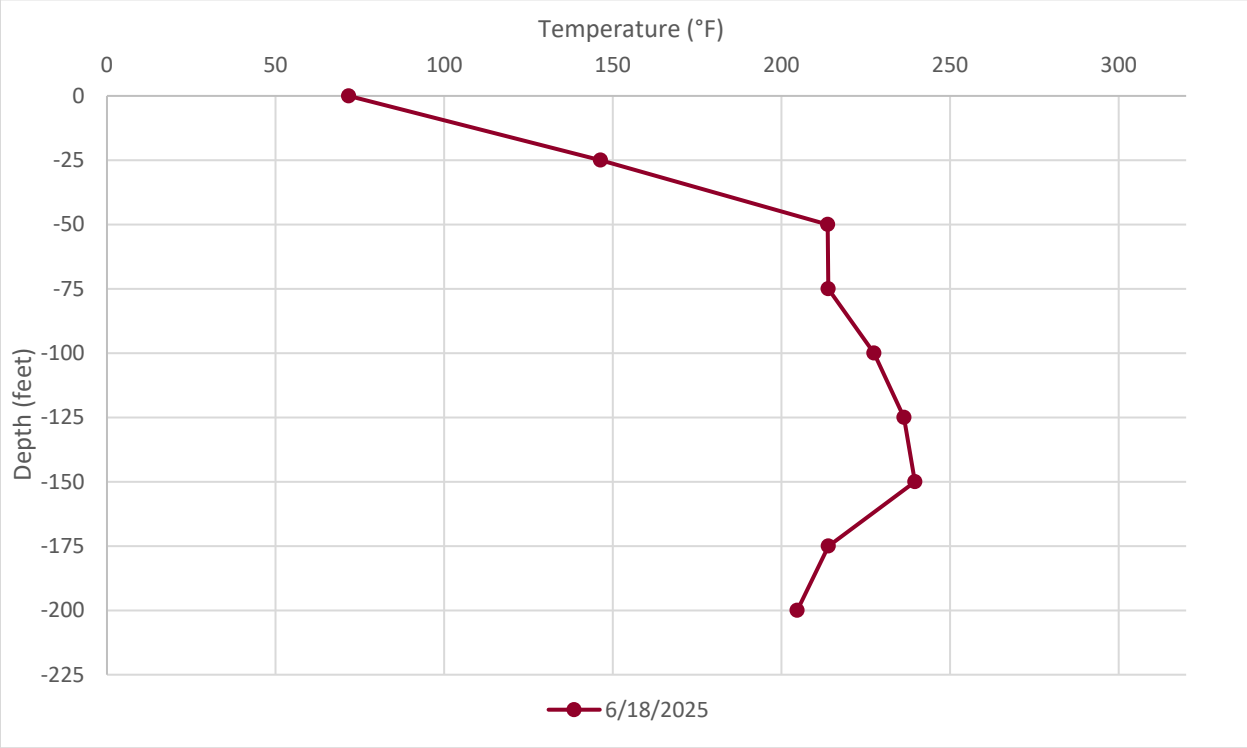


Figure B - 12 Average Temperatures Recorded by TP-5 on June 25, 2025

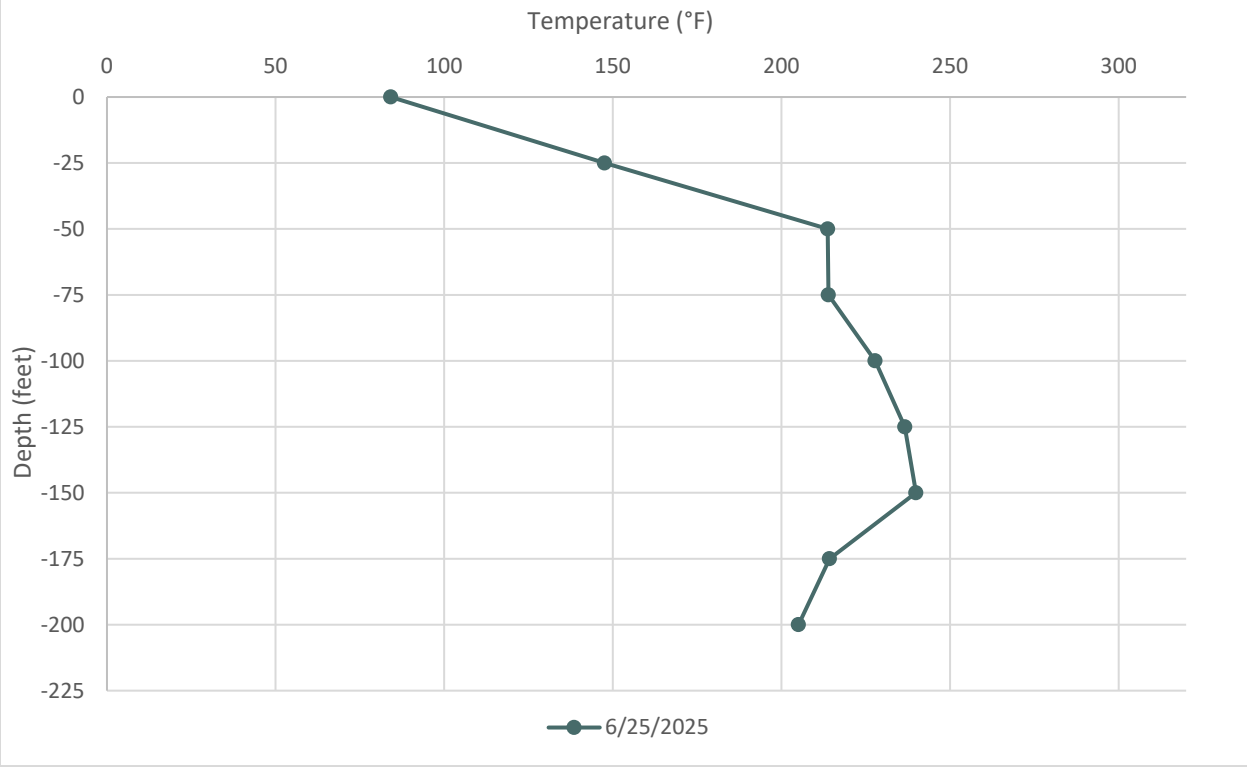


Figure B - 13 Average Temperatures Recorded by TP-6 on June 4, 2025

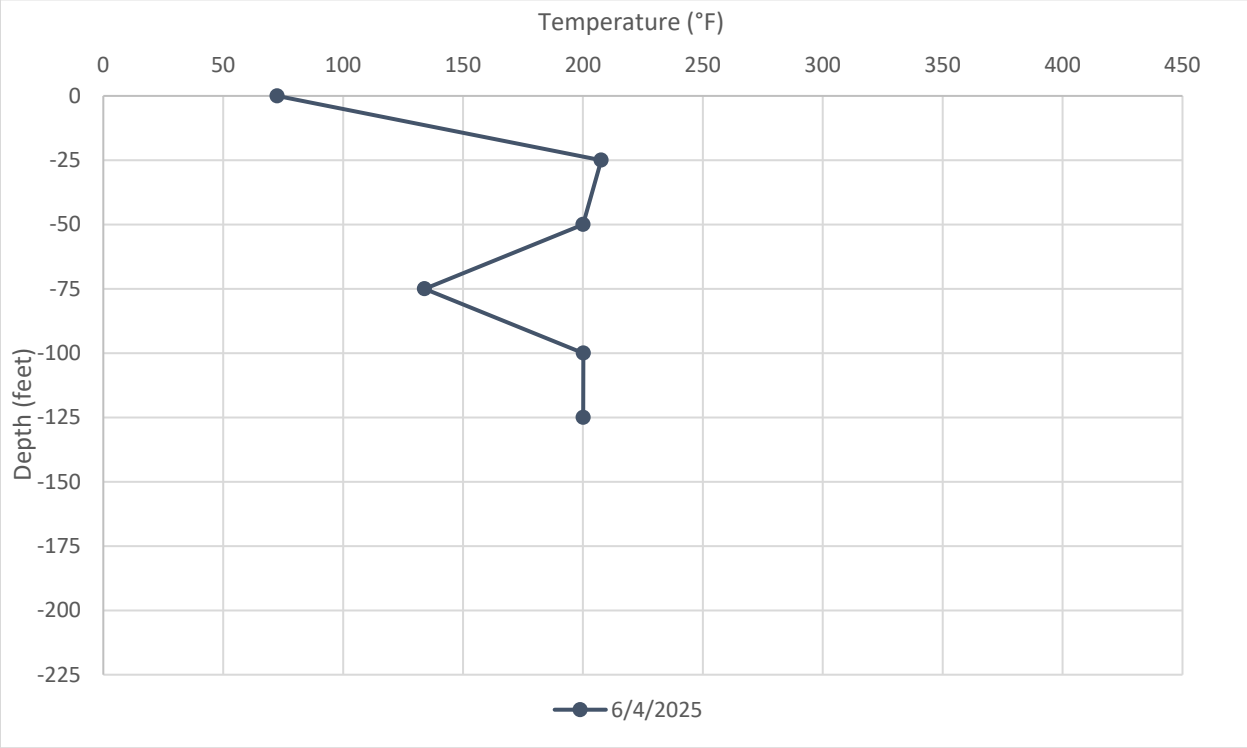


Figure B - 14 Average Temperatures Recorded by TP-6 on June 11, 2025

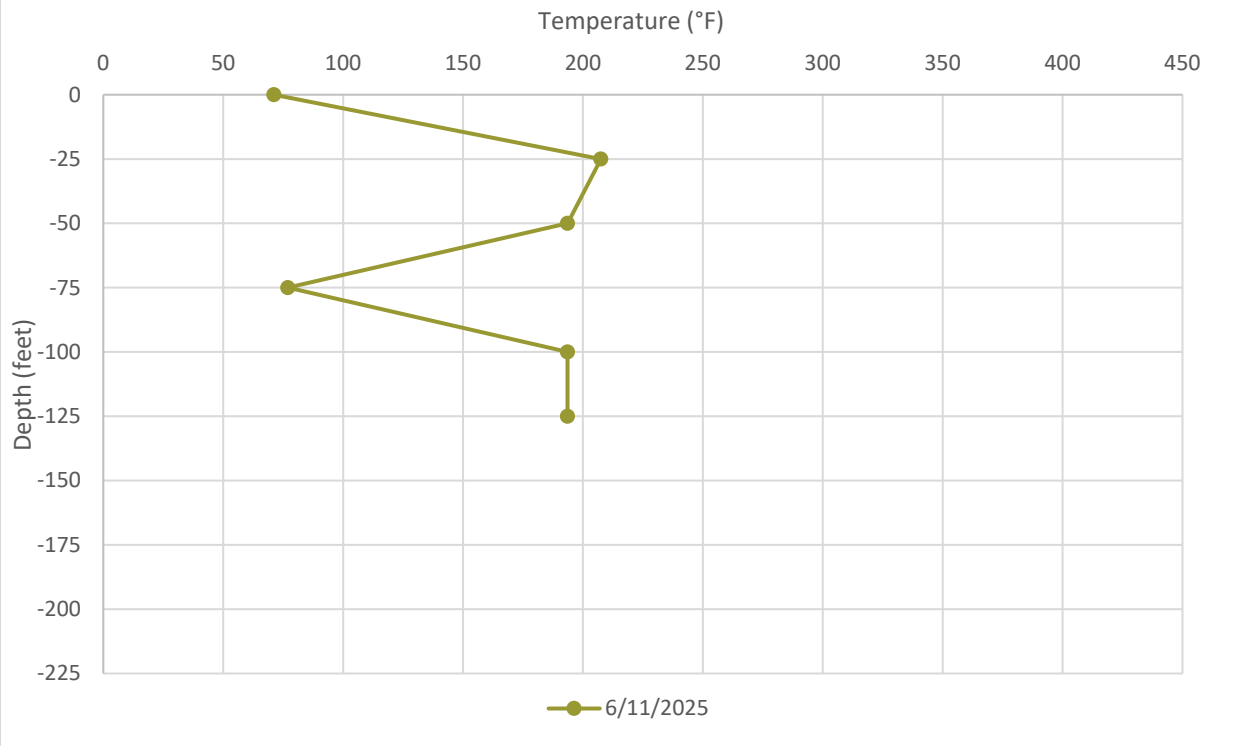


Figure B - 15 Average Temperatures Recorded by TP-6 on June 18, 2025

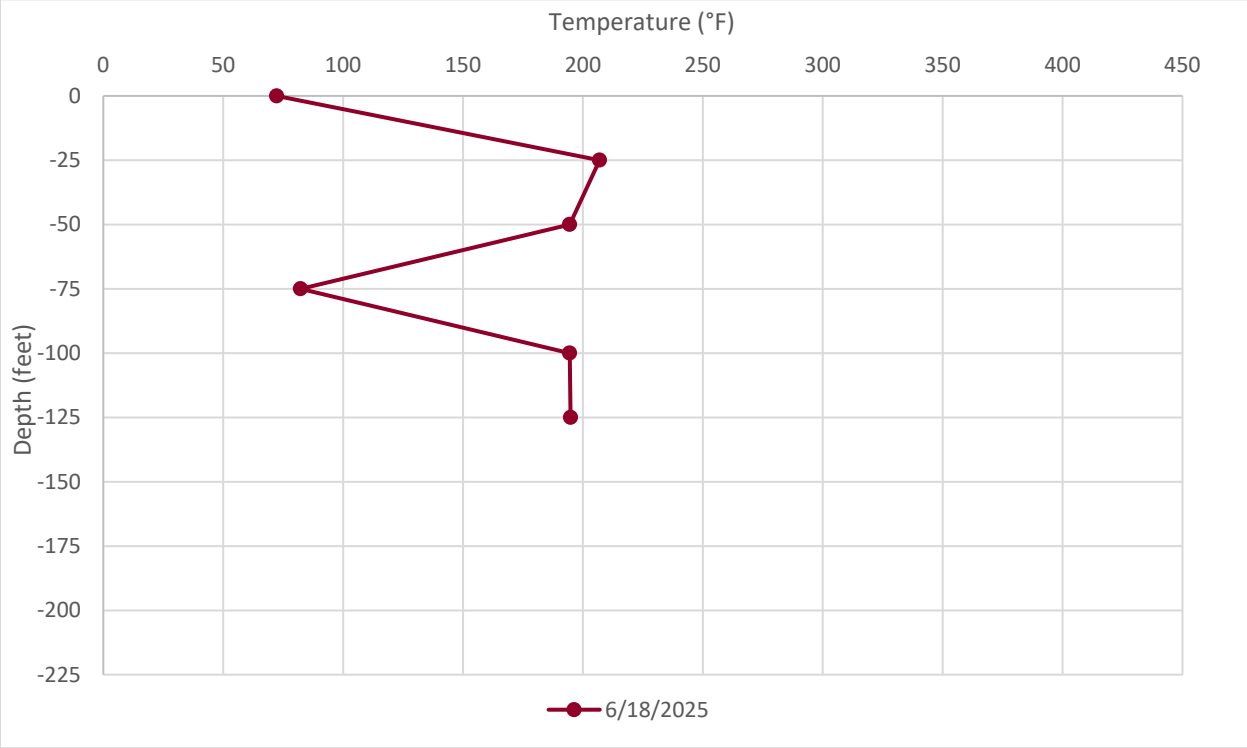


Figure B - 16 Average Temperatures Recorded by TP-6 on June 25, 2025

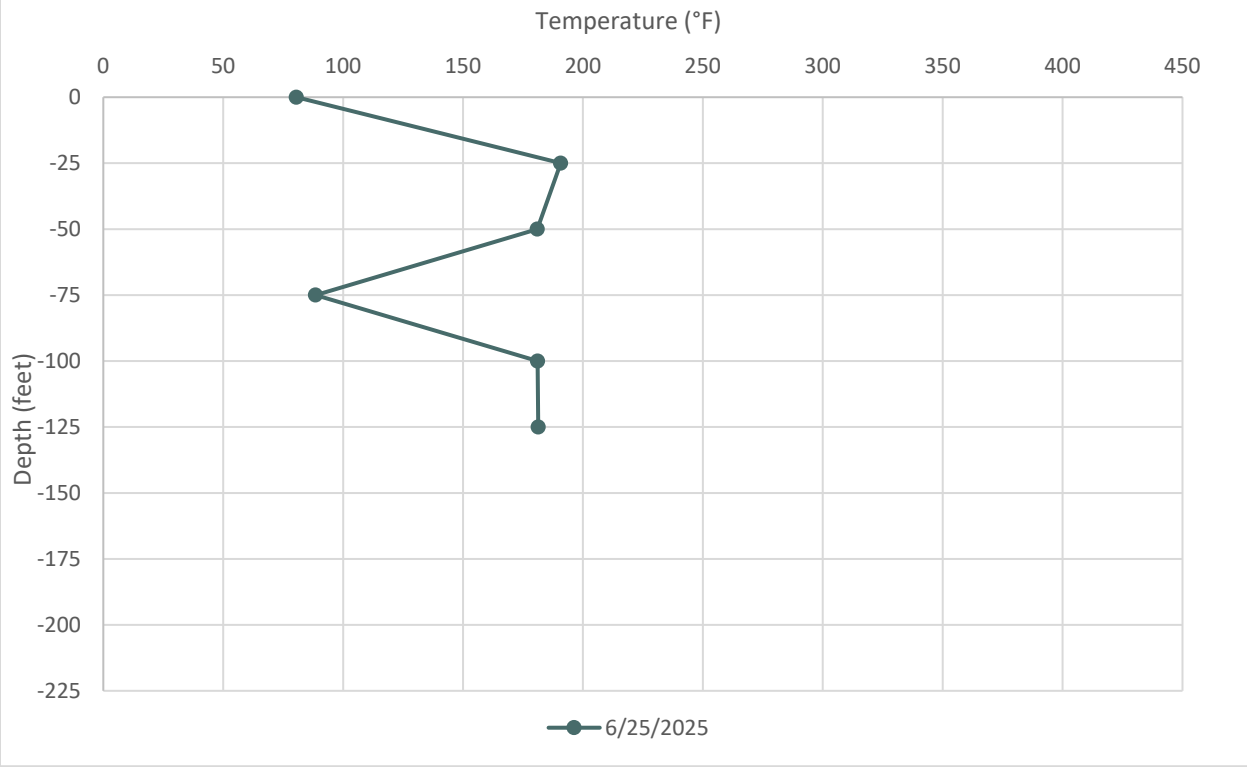


Figure B - 17 Average Temperatures Recorded by TP-7 on June 4, 2025

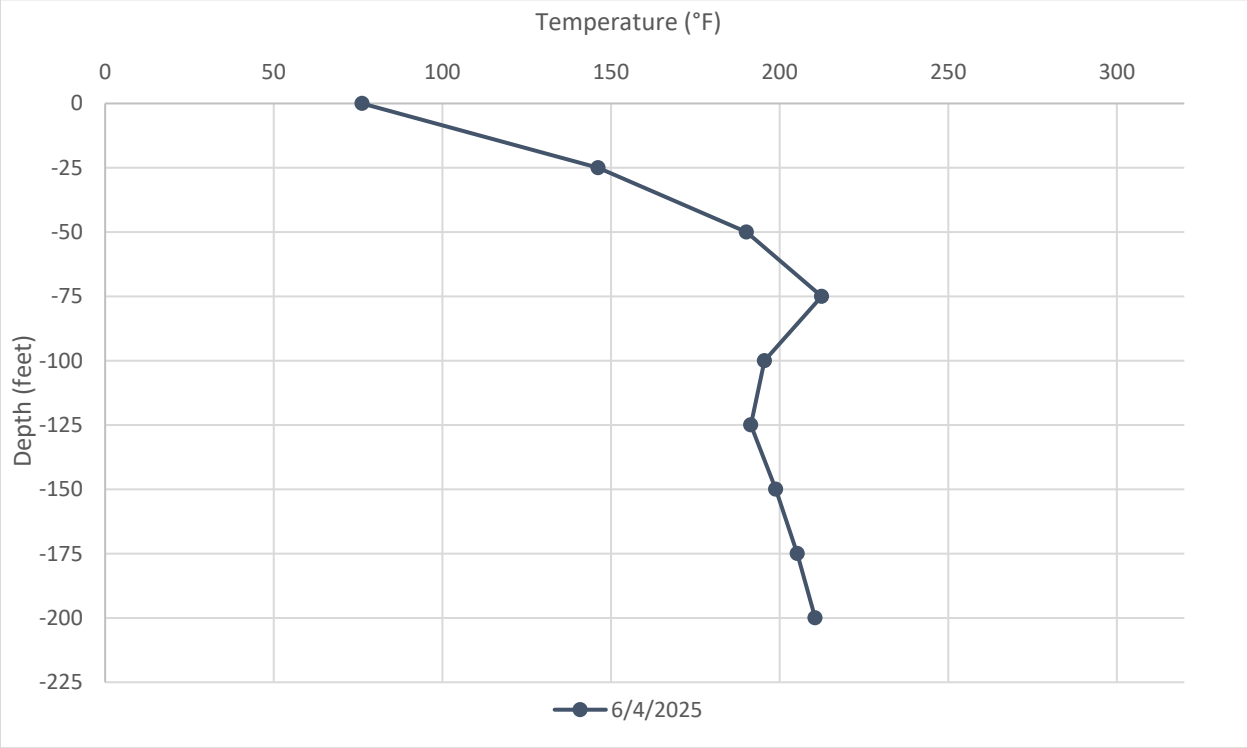


Figure B - 18 Average Temperatures Recorded by TP-7 on June 11, 2025

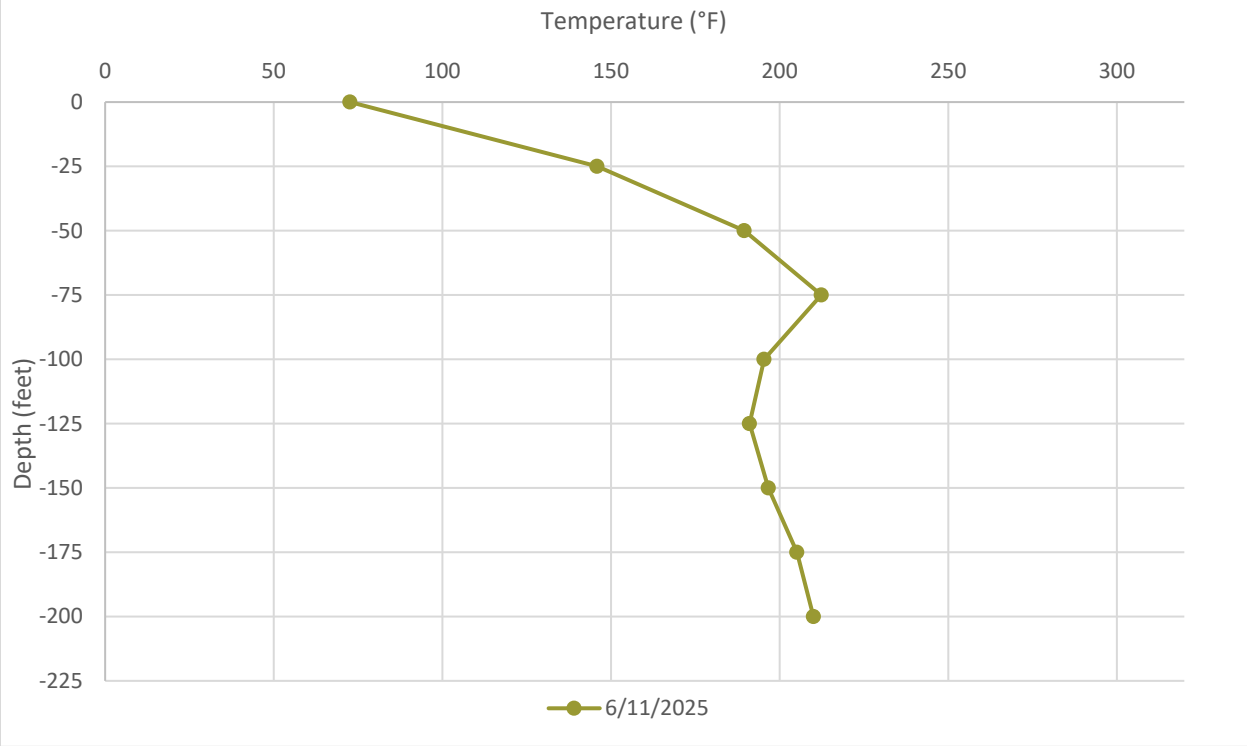


Figure B - 19 Average Temperatures Recorded by TP-7 on June 18, 2025

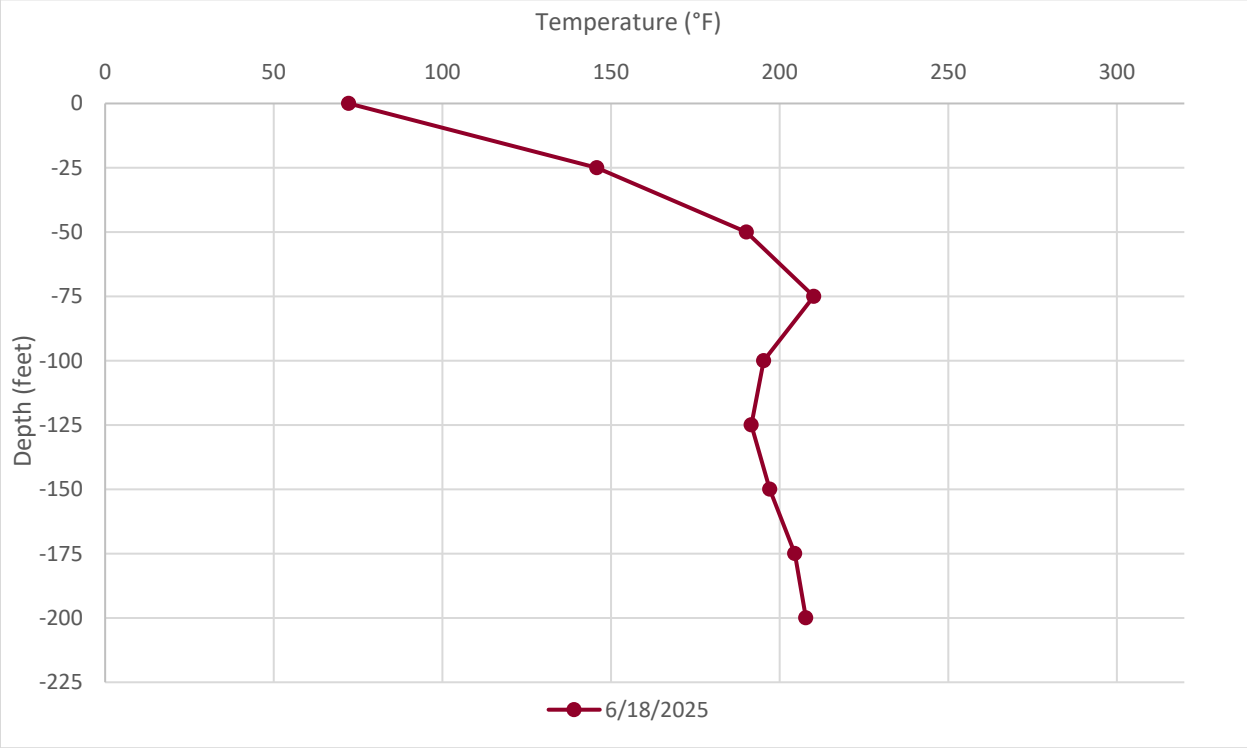


Figure B - 20 Average Temperatures Recorded by TP-7 on June 25, 2025

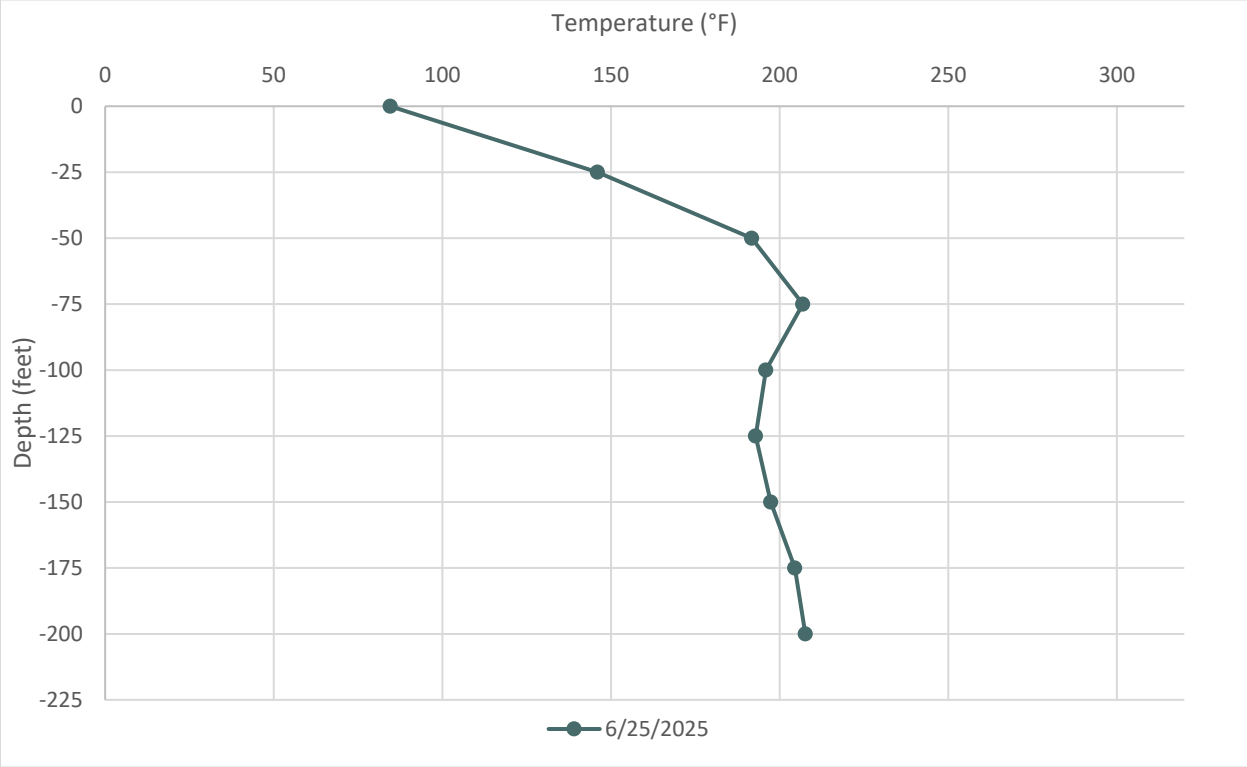


Figure B - 21 Average Temperatures Recorded by TP-8 on June 4, 2025

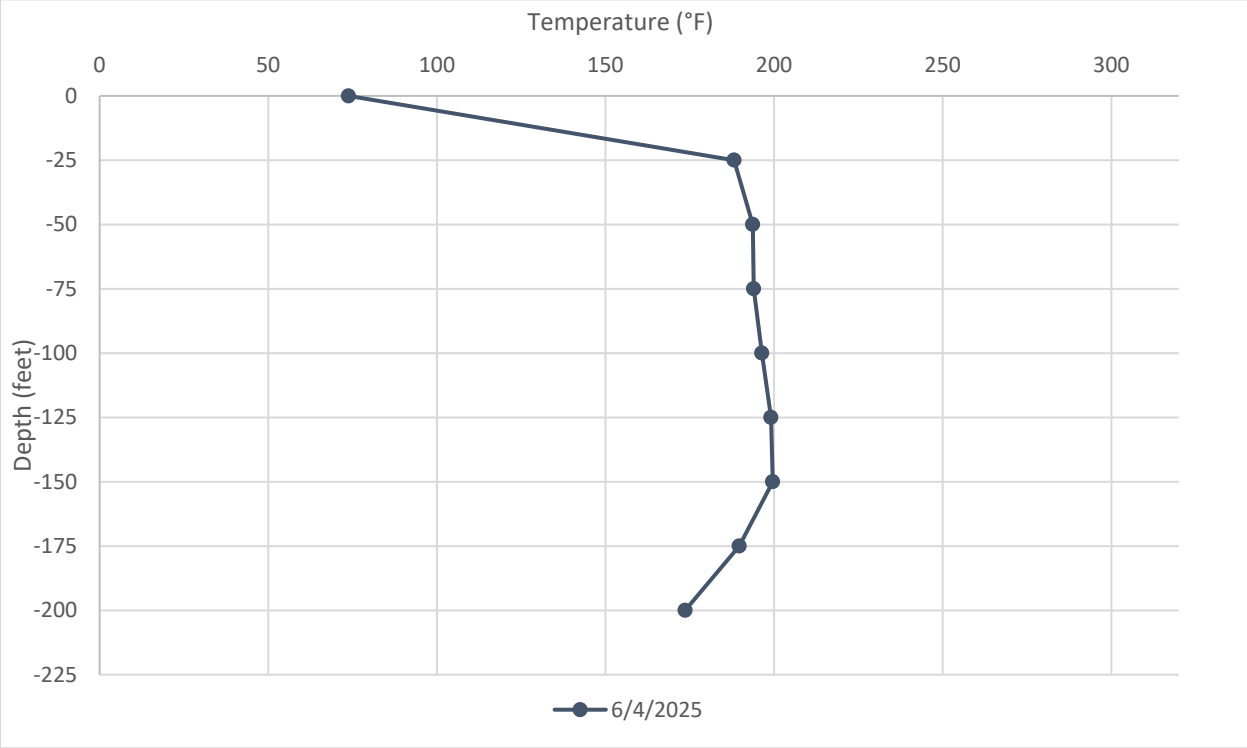


Figure B - 22 Average Temperatures Recorded by TP-8 on June 11, 2025

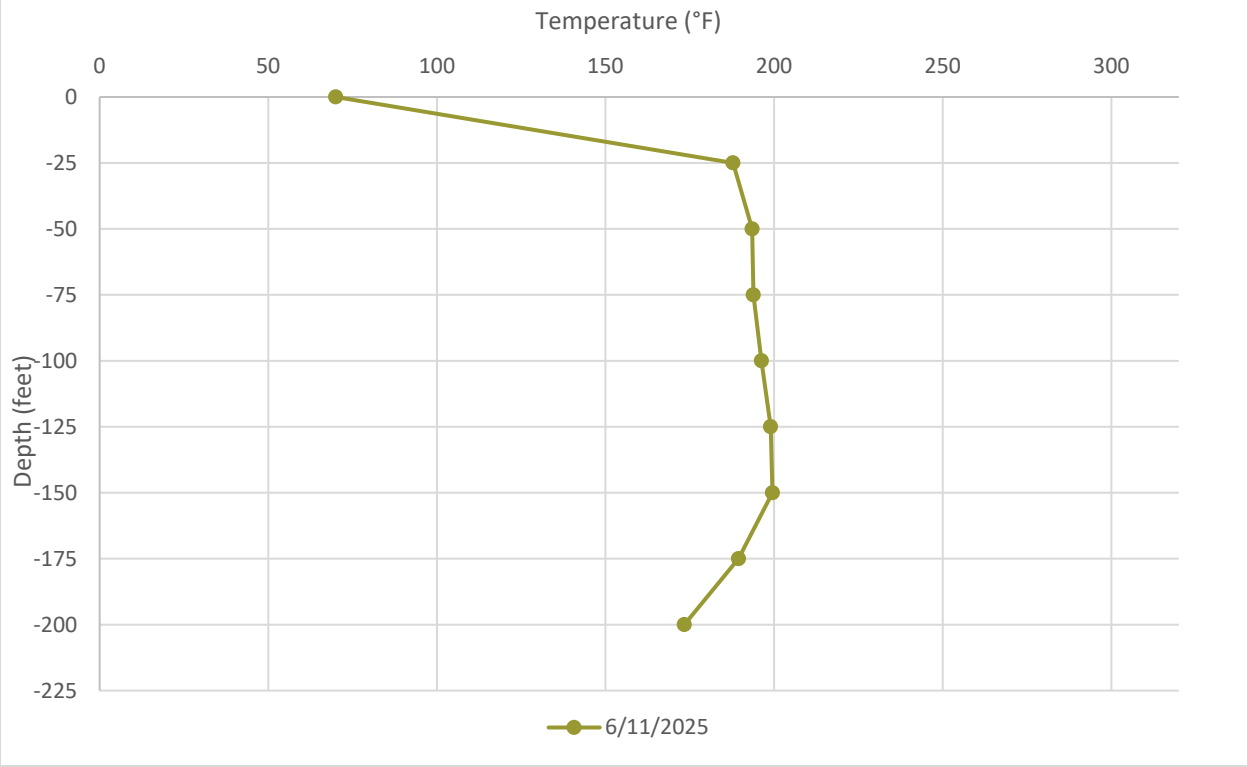


Figure B - 23 Average Temperatures Recorded by TP-8 on June 18, 2025

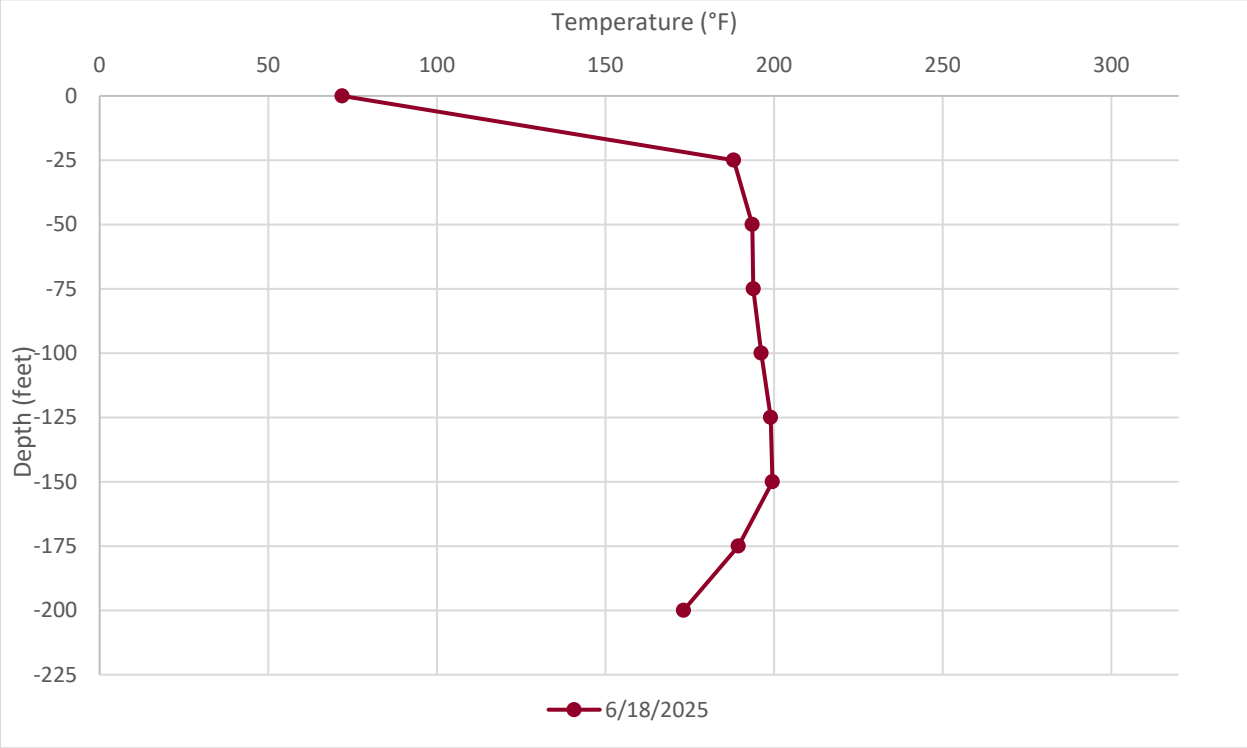


Figure B - 24 Average Temperatures Recorded by TP-8 on June 25, 2025

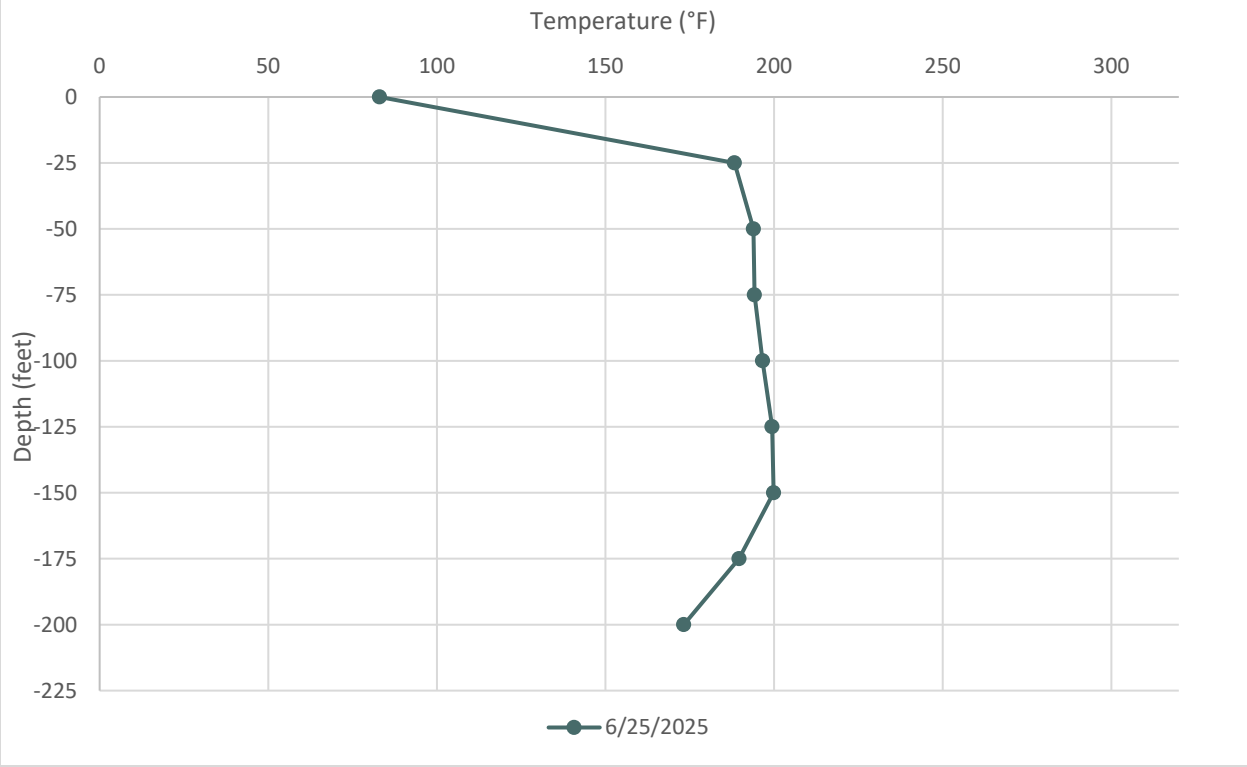


Figure B - 25 Average Temperatures Recorded by TP-9 on June 4, 2025

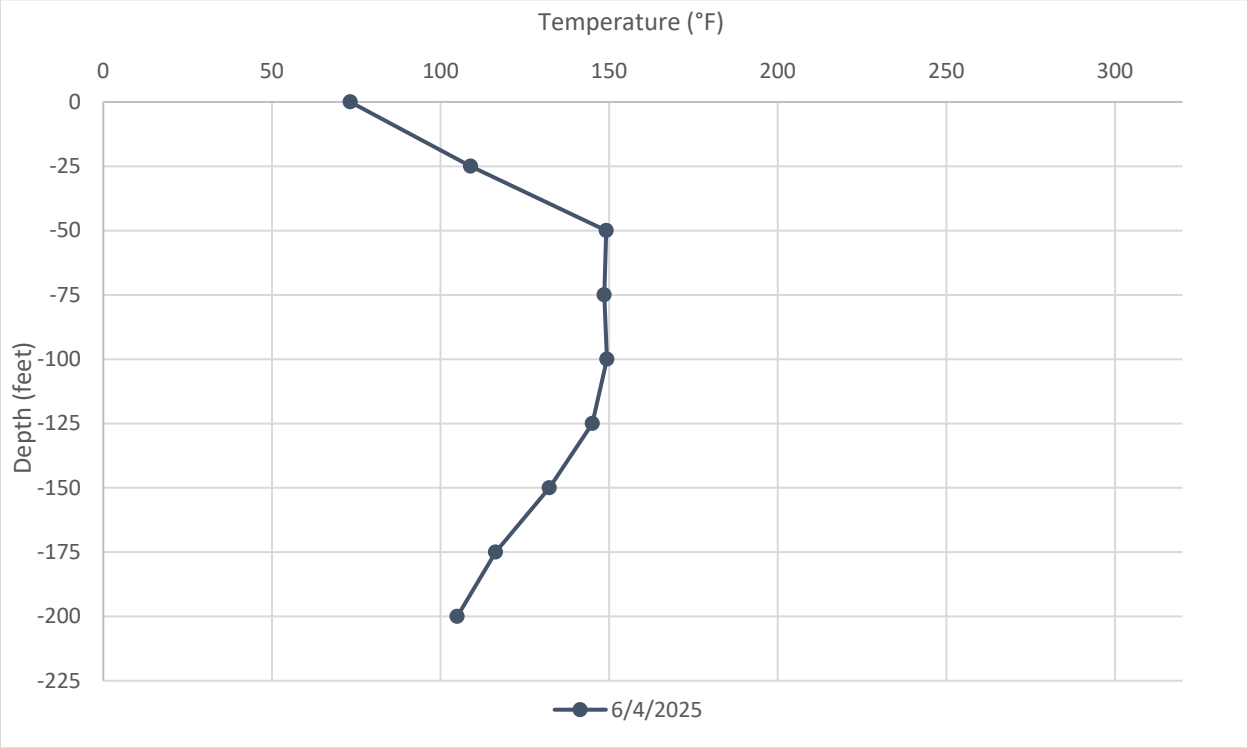


Figure B - 26 Average Temperatures Recorded by TP-9 on June 11, 2025

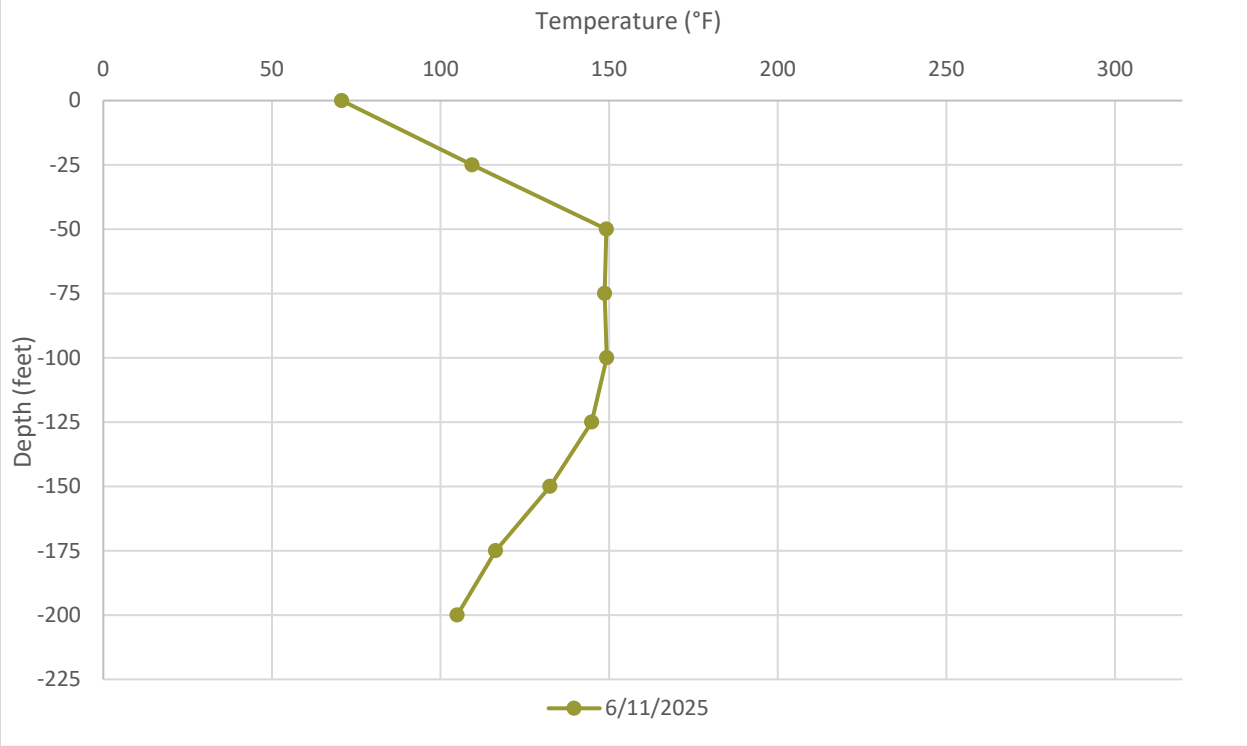


Figure B - 27 Average Temperatures Recorded by TP-9 on June 18, 2025

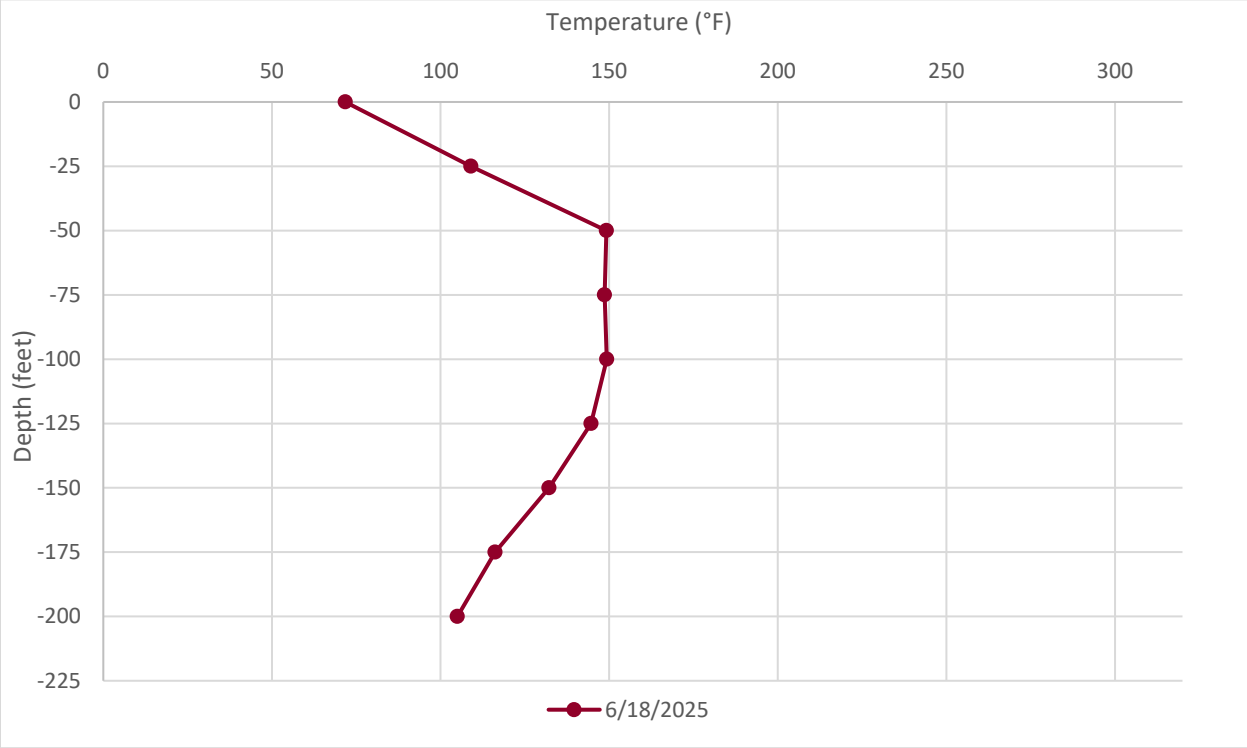
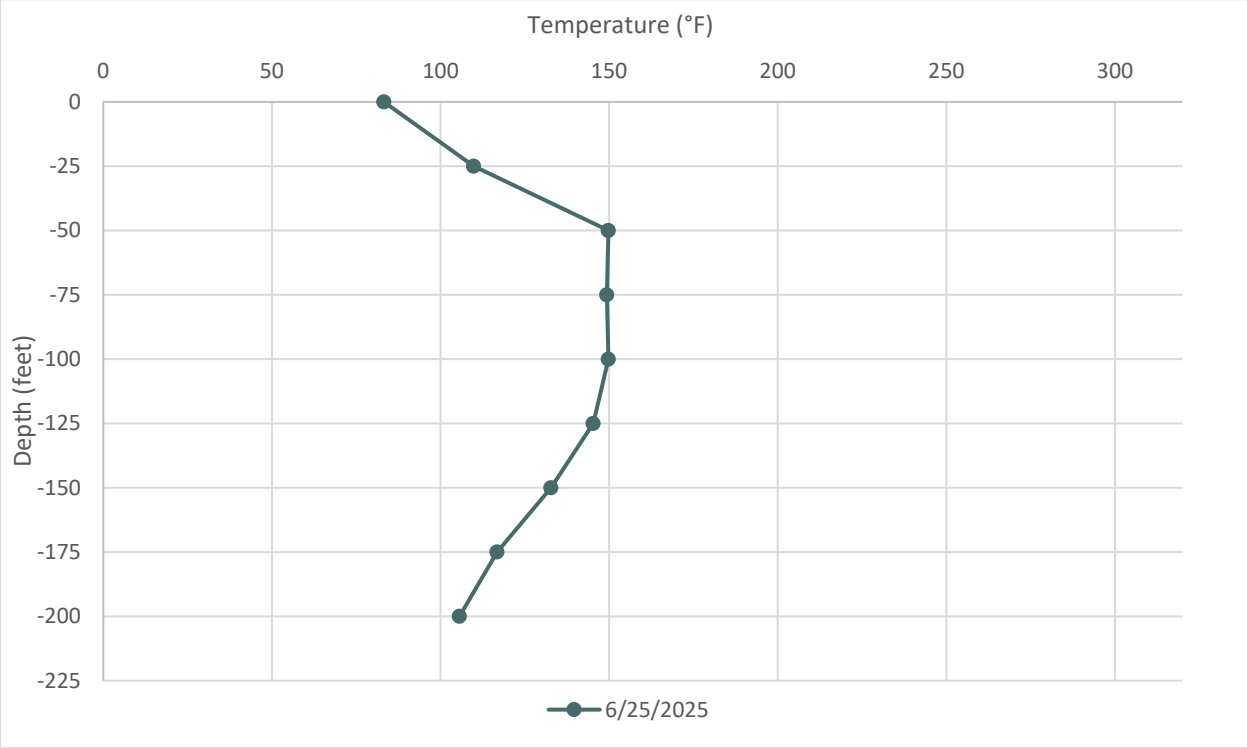


Figure B - 28 Average Temperatures Recorded by TP-9 on June 25, 2025



Appendix C

Daily Wellhead Temperature Averages

Solid Waste Permit 588 Daily Wellhead Temperature Averages

The data provided in this report represent initial readings provided by field instrumentation without Validation, analysis, quality assurance review, or context based on operating conditions. This report is subject to revision following quality assurance review and an analysis of operating conditions. SCS will continue to provide a supplemental report with additional information and further analysis on a monthly basis at a minimum.

SCS ENGINEERS

07222143.00 | July 7, 2025

274 Granite Run Drive
Lancaster, PA 17601
717-550-6330

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 32R

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	89.5	84.0	96.4
Jun 2	90.3	78.8	101.4
Jun 3	92.5	81.8	103.0
Jun 4	92.3	80.8	102.6
Jun 5	92.1	86.4	99.8
Jun 6	91.9	84.8	102.8
Jun 7	90.1	81.1	99.5
Jun 8	90.2	84.9	98.0
Jun 9	90.3	82.4	98.6
Jun 10	88.9	81.2	98.7
Jun 11	90.0	78.8	100.8
Jun 12	92.0	82.6	102.8
Jun 13	93.6	85.0	103.4
Jun 14	93.0	84.6	104.7
Jun 15	90.0	84.5	97.1
Jun 16	90.9	86.3	98.4
Jun 17	103.7	83.8	115.1
Jun 18	109.6	107.4	113.2
Jun 19	109.5	106.8	112.7
Jun 20	109.3	106.4	112.2
Jun 21	109.9	106.7	113.5
Jun 22	110.5	107.2	113.9
Jun 23	110.8	107.5	113.9
Jun 24	111.1	107.5	114.9
Jun 25	110.6	81.6	115.7
Jun 26	110.3	105.6	113.7
Jun 27	110.4	106.8	114.8
Jun 28	109.9	104.4	114.3
Jun 29	110.8	107.6	114.7
Summary	**99.4**	**88.9**	**111.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 33B

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	69.5	57.9	83.4
Jun 2	73.2	51.0	95.7
Jun 3	77.3	52.7	102.3
Jun 4	80.8	60.4	100.4
Jun 5	78.9	68.1	93.5
Jun 6	78.7	64.4	98.5
Jun 7	74.9	65.3	95.2
Jun 8	75.3	66.1	92.1
Jun 9	76.1	62.2	94.8
Jun 10	76.8	64.1	94.9
Jun 11	79.0	58.4	101.5
Jun 12	80.0	62.2	103.1
Jun 13	82.1	68.2	102.2
Jun 14	81.1	68.2	101.3
Jun 15	75.7	70.2	92.0
Jun 16	76.7	70.2	88.2
Jun 17	81.7	68.9	101.7
Jun 18	77.0	68.6	93.7
Jun 19	75.1	67.8	93.6
Jun 20	79.9	65.5	95.3
Jun 21	83.5	64.1	103.0
Jun 22	87.3	67.5	107.2
Jun 23	88.3	69.6	107.3
Jun 24	90.1	71.7	110.4
Jun 25	90.4	70.6	110.5
Jun 26	80.6	73.0	106.1
Jun 27	84.7	68.1	107.1
Jun 28	80.8	68.3	100.1
Jun 29	84.3	69.2	103.7
Summary	**80.0**	**69.5**	**90.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 36A

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	68.9	59.9	80.6
Jun 2	72.8	53.6	95.7
Jun 3	76.6	55.4	102.4
Jun 4	81.0	61.8	101.6
Jun 5	78.8	69.1	92.2
Jun 6	77.7	65.8	95.9
Jun 7	74.5	66.9	90.6
Jun 8	75.0	67.6	88.4
Jun 9	75.5	64.2	89.5
Jun 10	76.1	65.4	93.8
Jun 11	78.6	60.6	101.8
Jun 12	79.8	64.0	101.0
Jun 13	81.1	69.4	102.3
Jun 14	80.2	69.7	102.0
Jun 15	75.1	70.9	85.9
Jun 16	77.1	71.1	87.7
Jun 17	80.9	70.3	100.7
Jun 18	76.0	70.4	89.9
Jun 19	75.0	69.5	90.0
Jun 20	80.0	67.4	96.4
Jun 21	82.5	66.1	103.1
Jun 22	86.5	68.8	111.2
Jun 23	87.5	70.6	110.4
Jun 24	90.2	72.8	114.6
Jun 25	89.3	71.6	111.5
Jun 26	79.9	74.0	102.9
Jun 27	85.1	69.7	109.7
Jun 28	81.5	70.7	102.7
Jun 29	84.1	70.9	100.0
Summary	**79.6**	**68.9**	**90.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 38

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	97.0	94.2	100.8
Jun 2	99.5	90.2	106.5
Jun 3	102.6	96.4	108.5
Jun 4	103.4	98.1	108.1
Jun 5	102.9	100.7	106.4
Jun 6	102.9	99.9	107.0
Jun 7	102.2	97.8	106.5
Jun 8	102.4	100.5	105.2
Jun 9	103.1	100.1	106.5
Jun 10	102.9	99.8	106.9
Jun 11	103.9	99.1	108.7
Jun 12	104.5	100.4	109.7
Jun 13	105.0	101.5	109.2
Jun 14	104.8	101.5	109.3
Jun 15	103.5	102.1	106.4
Jun 16	104.5	102.2	107.7
Jun 17	106.3	101.2	110.3
Jun 18	104.9	103.4	108.5
Jun 19	104.7	102.4	107.7
Jun 20	105.7	103.0	109.6
Jun 21	104.9	102.0	109.2
Jun 22	105.7	100.9	111.0
Jun 23	107.0	101.9	112.4
Jun 24	108.5	104.0	113.5
Jun 25	108.4	96.0	113.3
Jun 26	106.7	101.9	111.5
Jun 27	107.4	102.6	112.7
Jun 28	106.7	103.5	111.4
Jun 29	107.8	104.2	111.9
Summary	**104.5**	**97.0**	**108.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 42

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	114.7	113.7	115.7
Jun 2	115.6	113.6	117.6
Jun 3	116.2	114.4	118.3
Jun 4	116.7	115.4	118.3
Jun 5	116.8	115.9	118.3
Jun 6	116.6	115.7	118.0
Jun 7	116.6	114.6	117.7
Jun 8	116.7	116.1	117.8
Jun 9	117.1	116.2	118.2
Jun 10	117.2	116.1	118.7
Jun 11	117.9	116.4	119.5
Jun 12	118.2	116.9	119.7
Jun 13	118.4	117.0	119.9
Jun 14	118.7	117.2	120.0
Jun 15	118.5	117.5	119.7
Jun 16	118.9	118.2	120.0
Jun 17	119.3	117.9	120.7
Jun 18	119.2	118.5	120.3
Jun 19	119.2	118.2	120.5
Jun 20	119.8	118.8	120.8
Jun 21	120.0	118.8	121.3
Jun 22	120.2	118.6	121.8
Jun 23	120.5	119.0	122.2
Jun 24	121.0	119.5	122.8
Jun 25	119.9	92.8	122.4
Jun 26	120.6	119.9	122.3
Jun 27	120.8	118.8	122.3
Jun 28	120.4	119.5	122.1
Jun 29	120.7	119.7	122.0
Summary	**118.5**	**114.7**	**121.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 47

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	69.2	59.8	83.0
Jun 2	72.2	52.2	91.1
Jun 3	76.6	56.2	98.5
Jun 4	80.6	63.1	97.8
Jun 5	79.2	70.4	91.8
Jun 6	79.2	66.3	94.6
Jun 7	76.4	68.1	91.5
Jun 8	76.4	68.6	89.2
Jun 9	76.9	64.2	90.9
Jun 10	76.5	64.9	92.1
Jun 11	77.9	60.0	97.5
Jun 12	80.3	64.0	100.1
Jun 13	82.3	70.7	98.0
Jun 14	81.4	70.8	97.8
Jun 15	77.1	71.8	90.3
Jun 16	78.0	71.4	87.7
Jun 17	80.7	70.6	97.5
Jun 18	76.6	70.9	90.3
Jun 19	75.4	68.7	91.4
Jun 20	78.0	66.3	93.9
Jun 21	80.9	65.0	99.8
Jun 22	83.5	66.3	102.9
Jun 23	84.5	68.5	104.8
Jun 24	88.5	71.7	109.9
Jun 25	87.5	69.3	106.6
Jun 26	80.1	72.6	101.7
Jun 27	83.2	68.2	103.3
Jun 28	79.8	69.2	100.4
Jun 29	83.0	69.0	102.3
Summary	**79.4**	**69.2**	**88.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 48

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	67.2	56.7	79.8
Jun 2	69.0	48.7	90.6
Jun 3	74.3	49.7	98.7
Jun 4	78.1	57.8	97.9
Jun 5	76.9	65.8	94.0
Jun 6	76.0	62.3	94.1
Jun 7	72.9	65.1	89.1
Jun 8	72.8	65.4	85.7
Jun 9	73.9	59.9	88.8
Jun 10	74.5	62.7	91.6
Jun 11	74.3	55.4	97.5
Jun 12	78.6	59.8	101.1
Jun 13	79.4	66.3	97.5
Jun 14	78.7	67.1	96.9
Jun 15	73.4	68.6	88.3
Jun 16	75.6	69.1	88.0
Jun 17	79.7	68.1	94.4
Jun 18	74.5	68.1	89.0
Jun 19	73.3	66.1	90.5
Jun 20	76.8	63.5	93.6
Jun 21	79.9	62.4	100.6
Jun 22	83.9	65.2	105.1
Jun 23	85.3	67.7	105.9
Jun 24	87.5	70.0	110.7
Jun 25	86.6	69.0	107.8
Jun 26	79.2	71.2	102.7
Jun 27	82.4	66.6	105.1
Jun 28	79.9	67.7	101.5
Jun 29	82.1	67.5	99.6
Summary	**77.5**	**67.2**	**87.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 49

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	103.0	88.7	129.3
Jun 2	88.3	65.9	107.4
Jun 3	113.7	79.9	171.6
Jun 4	161.8	158.2	164.4
Jun 5	158.8	156.3	160.6
Jun 6	157.2	154.9	159.9
Jun 7	155.7	149.0	158.0
Jun 8	154.8	151.4	156.4
Jun 9	155.5	153.6	156.9
Jun 10	154.8	153.8	156.2
Jun 11	155.1	153.5	158.0
Jun 12	154.9	152.8	156.7
Jun 13	154.8	153.0	156.4
Jun 14	155.2	154.1	156.2
Jun 15	154.7	153.4	155.9
Jun 16	154.9	152.6	156.3
Jun 17	154.8	151.1	156.5
Jun 18	154.2	152.1	155.6
Jun 19	154.2	152.1	155.6
Jun 20	154.9	153.7	156.9
Jun 21	142.6	105.6	155.9
Jun 22	95.7	75.9	111.3
Jun 23	85.8	67.7	105.6
Jun 24	85.8	69.6	103.6
Jun 25	87.3	68.8	109.2
Jun 26	79.6	72.0	98.7
Jun 27	80.3	66.1	96.2
Jun 28	77.9	67.8	96.3
Jun 29	81.0	68.8	95.7
Summary	**129.9**	**77.9**	**161.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 50

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	66.9	59.2	78.8
Jun 2	69.4	48.9	89.5
Jun 3	82.2	55.3	116.1
Jun 4	104.4	99.6	109.9
Jun 5	103.1	100.2	109.4
Jun 6	101.9	98.6	107.1
Jun 7	100.5	95.5	103.9
Jun 8	99.3	98.1	101.1
Jun 9	100.7	97.2	106.0
Jun 10	100.8	97.4	105.6
Jun 11	105.2	96.1	112.9
Jun 12	110.0	106.5	114.0
Jun 13	110.6	106.3	114.3
Jun 14	112.3	108.5	117.3
Jun 15	112.8	110.8	115.5
Jun 16	113.0	111.8	114.9
Jun 17	113.3	110.5	116.5
Jun 18	112.7	111.5	115.2
Jun 19	112.6	110.6	116.1
Jun 20	113.5	111.7	116.8
Jun 21	110.1	97.4	115.2
Jun 22	101.0	91.9	112.9
Jun 23	101.2	89.9	112.9
Jun 24	100.6	88.1	113.6
Jun 25	91.2	74.5	104.8
Jun 26	88.3	77.2	103.8
Jun 27	98.0	87.8	111.8
Jun 28	96.0	86.4	109.7
Jun 29	98.5	90.1	108.6
Summary	**101.0**	**66.9**	**113.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 51

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	69.9	59.5	84.4
Jun 2	73.0	51.0	101.3
Jun 3	78.4	53.6	107.0
Jun 4	82.6	62.5	101.7
Jun 5	82.1	72.6	95.6
Jun 6	82.2	68.1	101.7
Jun 7	79.5	69.4	98.0
Jun 8	79.1	70.7	93.0
Jun 9	80.7	66.4	95.4
Jun 10	78.8	66.7	97.6
Jun 11	80.5	60.9	103.5
Jun 12	82.4	64.8	103.6
Jun 13	84.7	71.8	103.0
Jun 14	83.1	72.0	102.4
Jun 15	77.4	72.0	90.4
Jun 16	77.9	72.0	90.2
Jun 17	81.2	70.4	98.0
Jun 18	75.1	68.8	88.7
Jun 19	75.5	68.3	92.4
Jun 20	76.9	65.1	93.7
Jun 21	79.5	63.0	98.5
Jun 22	82.5	65.0	102.1
Jun 23	83.5	67.0	104.0
Jun 24	87.2	69.4	108.0
Jun 25	86.5	68.5	107.4
Jun 26	79.2	71.1	100.1
Jun 27	83.8	67.8	103.5
Jun 28	78.6	67.7	99.2
Jun 29	81.6	67.5	97.6
Summary	**80.1**	**69.9**	**87.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 52

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	157.6	156.6	158.9
Jun 2	157.9	154.7	160.1
Jun 3	157.9	154.6	161.0
Jun 4	158.9	156.5	161.0
Jun 5	158.7	157.7	159.8
Jun 6	158.8	157.5	160.4
Jun 7	158.4	155.0	160.0
Jun 8	158.4	157.0	159.2
Jun 9	158.9	157.4	160.4
Jun 10	158.6	157.2	160.3
Jun 11	158.8	156.7	161.0
Jun 12	159.4	157.3	161.6
Jun 13	159.9	157.3	162.0
Jun 14	160.1	158.6	161.3
Jun 15	159.5	157.6	160.5
Jun 16	160.2	158.2	161.6
Jun 17	157.4	154.7	160.1
Jun 18	156.7	155.7	159.0
Jun 19	156.5	154.3	158.5
Jun 20	157.7	155.8	160.1
Jun 21	160.2	157.3	163.8
Jun 22	162.6	160.2	164.9
Jun 23	162.8	161.2	164.5
Jun 24	162.9	161.0	165.1
Jun 25	161.8	133.5	164.6
Jun 26	162.0	157.9	164.3
Jun 27	162.7	161.0	165.3
Jun 28	162.3	160.1	164.6
Jun 29	163.1	162.0	164.6
Summary	**159.7**	**156.5**	**163.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 53

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	105.7	99.1	115.9
Jun 2	107.0	86.9	126.8
Jun 3	110.2	92.5	129.6
Jun 4	113.3	99.0	129.0
Jun 5	112.6	105.4	124.0
Jun 6	113.8	103.5	128.3
Jun 7	112.1	97.0	126.4
Jun 8	112.2	105.8	123.6
Jun 9	112.2	103.1	126.1
Jun 10	111.6	101.8	126.6
Jun 11	113.4	100.0	130.6
Jun 12	116.5	103.2	132.8
Jun 13	118.6	108.5	132.6
Jun 14	118.9	107.9	132.1
Jun 15	114.6	106.3	121.5
Jun 16	117.0	105.8	125.7
Jun 17	111.4	99.8	126.4
Jun 18	108.3	101.2	121.7
Jun 19	106.6	95.0	118.1
Jun 20	110.7	99.4	127.6
Jun 21	115.4	103.7	131.7
Jun 22	120.2	107.6	135.5
Jun 23	122.3	111.9	135.4
Jun 24	125.2	114.1	139.7
Jun 25	125.3	113.3	139.2
Jun 26	120.7	108.2	132.2
Jun 27	123.7	114.5	138.7
Jun 28	122.5	106.5	138.1
Jun 29	126.3	118.1	138.6
Summary	**115.5**	**105.7**	**126.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 54

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	68.6	59.9	81.3
Jun 2	70.0	50.0	93.3
Jun 3	75.2	52.6	101.7
Jun 4	79.6	60.5	99.7
Jun 5	79.4	69.2	94.4
Jun 6	78.4	65.1	96.8
Jun 7	76.1	66.1	92.9
Jun 8	76.3	68.1	90.9
Jun 9	75.9	63.1	92.8
Jun 10	75.4	62.0	93.0
Jun 11	76.8	57.7	99.7
Jun 12	80.1	62.1	102.9
Jun 13	81.9	69.6	99.6
Jun 14	80.7	69.6	97.9
Jun 15	75.0	70.4	84.3
Jun 16	77.3	72.0	88.6
Jun 17	81.6	71.2	97.3
Jun 18	77.0	71.9	89.4
Jun 19	75.9	69.2	88.2
Jun 20	78.5	67.3	96.2
Jun 21	79.6	64.3	99.2
Jun 22	82.8	66.0	102.1
Jun 23	83.9	68.4	103.4
Jun 24	88.1	71.1	107.8
Jun 25	86.9	69.4	107.6
Jun 26	79.3	71.1	97.2
Jun 27	82.7	68.0	102.9
Jun 28	80.1	69.4	100.9
Jun 29	82.7	69.4	99.8
Summary	**78.8**	**68.6**	**88.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 55

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	127.2	123.3	130.8
Jun 2	131.2	123.9	139.6
Jun 3	133.0	124.8	141.4
Jun 4	134.5	128.0	143.0
Jun 5	136.2	132.3	142.5
Jun 6	135.5	131.6	139.1
Jun 7	133.6	124.3	138.2
Jun 8	133.6	126.2	138.1
Jun 9	133.9	54.8	142.0
Jun 10	135.8	130.8	142.2
Jun 11	138.7	132.9	146.3
Jun 12	140.9	134.5	147.9
Jun 13	140.9	122.8	147.3
Jun 14	141.7	137.5	146.3
Jun 15	139.4	131.7	142.4
Jun 16	141.0	129.3	145.4
Jun 17	140.4	121.2	149.1
Jun 18	139.0	135.1	145.0
Jun 19	138.9	129.6	144.7
Jun 20	143.2	139.6	150.3
Jun 21	144.0	139.3	153.7
Jun 22	146.6	140.0	155.5
Jun 23	148.0	143.1	156.2
Jun 24	149.8	144.7	158.1
Jun 25	148.9	103.9	157.1
Jun 26	146.9	116.9	155.0
Jun 27	150.0	146.1	159.2
Jun 28	148.7	137.0	157.1
Jun 29	151.8	147.2	156.9
Summary	**140.5**	**127.2**	**151.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 56

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	161.8	160.8	162.7
Jun 2	161.9	158.8	164.1
Jun 3	162.1	159.8	164.5
Jun 4	163.1	161.3	165.2
Jun 5	163.6	162.6	164.9
Jun 6	163.9	162.7	165.3
Jun 7	164.0	162.3	165.3
Jun 8	164.0	162.2	165.1
Jun 9	164.2	163.2	165.4
Jun 10	164.0	163.1	165.6
Jun 11	164.5	163.0	166.0
Jun 12	165.3	163.7	167.0
Jun 13	165.7	163.2	167.3
Jun 14	166.0	164.3	167.6
Jun 15	165.9	164.1	166.6
Jun 16	166.4	165.5	167.5
Jun 17	166.2	164.8	167.6
Jun 18	166.2	165.4	167.5
Jun 19	166.4	164.9	167.9
Jun 20	166.5	165.6	167.9
Jun 21	167.7	166.1	169.7
Jun 22	168.8	167.6	170.4
Jun 23	169.0	168.4	170.1
Jun 24	168.9	167.6	170.6
Jun 25	169.5	168.4	170.8
Jun 26	169.2	168.2	170.1
Jun 27	169.3	167.1	171.2
Jun 28	169.5	167.7	171.1
Jun 29	170.2	169.3	171.8
Summary	**166.0**	**161.8**	**170.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 57

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	77.4	68.3	89.8
Jun 2	79.4	58.3	102.2
Jun 3	84.0	61.5	107.3
Jun 4	88.8	69.6	106.7
Jun 5	87.8	78.3	102.0
Jun 6	87.1	73.9	104.5
Jun 7	84.6	73.2	101.0
Jun 8	85.3	75.9	99.5
Jun 9	85.6	73.0	101.3
Jun 10	85.3	73.6	102.2
Jun 11	86.7	67.7	109.0
Jun 12	89.6	72.7	110.7
Jun 13	91.8	79.0	108.7
Jun 14	91.0	79.0	107.1
Jun 15	85.6	79.6	96.6
Jun 16	88.6	81.6	101.7
Jun 17	91.2	79.5	107.4
Jun 18	87.3	81.8	100.3
Jun 19	86.5	79.0	98.9
Jun 20	89.5	78.2	106.2
Jun 21	90.8	76.1	110.2
Jun 22	95.0	77.8	113.4
Jun 23	96.4	81.0	114.9
Jun 24	100.9	84.7	119.9
Jun 25	99.9	82.1	119.0
Jun 26	92.7	82.8	109.0
Jun 27	95.9	81.3	116.7
Jun 28	93.3	80.8	112.5
Jun 29	96.3	82.6	113.1
Summary	**89.4**	**77.4**	**100.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 58

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	107.0	105.7	108.5
Jun 2	107.8	104.7	110.6
Jun 3	108.6	106.0	111.2
Jun 4	109.0	106.9	111.1
Jun 5	109.0	107.8	110.9
Jun 6	108.9	107.6	110.8
Jun 7	108.6	106.8	110.3
Jun 8	108.6	107.7	109.9
Jun 9	108.6	107.4	109.9
Jun 10	108.5	107.0	110.1
Jun 11	108.2	106.4	110.4
Jun 12	108.4	106.5	110.4
Jun 13	108.5	106.8	110.3
Jun 14	108.6	107.3	110.3
Jun 15	107.9	106.7	109.7
Jun 16	108.2	107.3	109.5
Jun 17	108.5	106.3	110.2
Jun 18	108.1	107.6	109.4
Jun 19	108.0	107.1	109.4
Jun 20	108.4	107.1	110.0
Jun 21	108.4	107.1	110.5
Jun 22	108.4	106.5	110.9
Jun 23	105.5	35.1	110.9
Jun 24	109.3	107.5	111.3
Jun 25	108.6	96.2	111.2
Jun 26	108.4	106.7	110.2
Jun 27	106.3	38.9	111.0
Jun 28	108.5	106.8	110.5
Jun 29	108.8	107.5	110.8
Summary	**108.3**	**105.5**	**109.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 59

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	113.1	112.5	113.8
Jun 2	113.5	112.1	114.9
Jun 3	116.3	112.3	121.4
Jun 4	120.4	117.3	123.2
Jun 5	120.9	115.7	123.0
Jun 6	117.5	114.3	123.4
Jun 7	114.7	113.7	115.3
Jun 8	114.8	114.2	115.5
Jun 9	117.1	114.1	120.8
Jun 10	118.2	115.0	123.2
Jun 11	117.1	114.6	121.8
Jun 12	117.1	114.6	121.8
Jun 13	117.2	115.1	123.1
Jun 14	115.8	115.1	117.8
Jun 15	116.3	114.8	119.5
Jun 16	115.9	115.0	117.8
Jun 17	116.3	114.3	118.5
Jun 18	115.7	114.9	117.6
Jun 19	115.9	114.5	117.9
Jun 20	117.7	114.8	123.0
Jun 21	117.4	116.3	119.1
Jun 22	118.2	116.9	120.9
Jun 23	113.8	26.1	118.8
Jun 24	117.3	116.5	118.6
Jun 25	116.9	110.3	119.9
Jun 26	116.2	115.6	118.2
Jun 27	117.0	115.2	119.8
Jun 28	116.1	115.3	117.1
Jun 29	116.2	115.1	117.9
Summary	**116.6**	**113.1**	**120.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 60

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	126.8	124.6	129.3
Jun 2	130.7	122.4	153.7
Jun 3	132.3	123.8	153.0
Jun 4	132.5	126.5	152.0
Jun 5	133.4	128.7	151.6
Jun 6	132.5	127.8	152.9
Jun 7	129.0	123.7	132.4
Jun 8	129.1	127.3	131.2
Jun 9	132.4	127.9	152.3
Jun 10	133.0	128.1	152.1
Jun 11	153.7	81.4	175.4
Jun 12	175.4	173.6	177.0
Jun 13	177.1	176.0	178.3
Jun 14	177.6	176.8	178.3
Jun 15	177.1	175.9	177.7
Jun 16	177.5	176.4	178.2
Jun 17	176.9	175.0	178.4
Jun 18	177.2	176.5	178.2
Jun 19	176.3	174.4	177.6
Jun 20	175.4	173.0	176.3
Jun 21	173.5	171.7	175.1
Jun 22	173.1	171.9	174.8
Jun 23	172.3	165.9	174.0
Jun 24	164.1	151.2	172.4
Jun 25	164.0	145.9	179.2
Jun 26	177.7	175.0	179.4
Jun 27	161.7	148.3	178.0
Jun 28	144.9	142.5	147.2
Jun 29	143.1	140.7	145.5
Summary	**156.2**	**126.8**	**177.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 61

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	167.1	166.5	167.8
Jun 2	165.6	163.8	167.0
Jun 3	164.6	163.1	166.5
Jun 4	164.6	163.3	165.8
Jun 5	165.2	164.4	166.2
Jun 6	165.2	164.2	165.9
Jun 7	165.1	164.1	166.0
Jun 8	164.8	164.2	165.5
Jun 9	164.4	163.6	165.4
Jun 10	163.9	163.1	164.9
Jun 11	163.8	162.6	165.1
Jun 12	164.1	162.8	165.6
Jun 13	164.4	163.3	165.6
Jun 14	164.5	163.6	165.5
Jun 15	164.1	163.0	164.9
Jun 16	164.2	160.1	165.2
Jun 17	160.3	151.3	165.2
Jun 18	163.5	162.8	164.6
Jun 19	163.3	162.3	164.4
Jun 20	159.1	152.9	163.3
Jun 21	153.4	151.6	155.3
Jun 22	153.5	151.9	154.8
Jun 23	156.5	143.5	166.4
Jun 24	146.0	131.3	150.4
Jun 25	154.3	106.5	164.3
Jun 26	163.4	162.1	164.5
Jun 27	163.7	162.5	165.4
Jun 28	163.7	162.3	165.2
Jun 29	164.2	162.7	165.5
Summary	**162.1**	**146.0**	**167.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 62

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	99.2	95.8	104.5
Jun 2	101.2	90.6	111.1
Jun 3	103.8	94.1	113.8
Jun 4	105.1	97.7	113.6
Jun 5	104.3	99.8	109.7
Jun 6	103.2	98.7	111.2
Jun 7	100.9	92.2	109.6
Jun 8	100.7	96.6	106.6
Jun 9	100.8	95.8	107.7
Jun 10	100.4	95.3	108.2
Jun 11	101.2	92.1	110.5
Jun 12	101.9	94.5	111.1
Jun 13	102.5	93.8	111.6
Jun 14	101.9	95.6	110.5
Jun 15	99.3	93.4	107.3
Jun 16	99.8	96.8	105.3
Jun 17	108.8	93.4	117.9
Jun 18	112.0	111.1	114.1
Jun 19	110.6	108.1	113.4
Jun 20	110.6	108.6	112.9
Jun 21	110.7	108.1	113.7
Jun 22	108.4	47.1	114.4
Jun 23	108.8	49.4	114.3
Jun 24	111.7	108.8	115.5
Jun 25	111.6	103.8	115.4
Jun 26	110.5	106.7	113.7
Jun 27	110.9	108.3	114.7
Jun 28	110.2	106.8	114.0
Jun 29	110.8	108.5	113.6
Summary	**105.6**	**99.2**	**112.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 63

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	66.1	56.0	79.1
Jun 2	67.7	47.6	87.5
Jun 3	72.0	49.4	94.0
Jun 4	75.4	57.5	92.8
Jun 5	75.6	64.9	90.6
Jun 6	74.5	61.9	92.1
Jun 7	72.3	64.6	88.8
Jun 8	72.6	64.7	86.5
Jun 9	72.3	59.5	87.0
Jun 10	72.3	60.8	88.0
Jun 11	73.0	54.8	92.8
Jun 12	75.7	59.0	96.4
Jun 13	77.4	65.5	93.5
Jun 14	77.1	66.5	94.1
Jun 15	72.7	68.1	87.1
Jun 16	74.5	68.5	86.5
Jun 17	78.0	67.5	92.9
Jun 18	73.8	67.5	85.7
Jun 19	72.6	65.5	86.7
Jun 20	75.5	63.3	92.4
Jun 21	78.3	61.9	95.9
Jun 22	81.8	64.9	100.4
Jun 23	83.1	67.2	101.3
Jun 24	85.3	69.5	103.7
Jun 25	84.9	68.6	105.2
Jun 26	76.9	69.5	96.2
Jun 27	80.4	65.9	101.1
Jun 28	77.7	67.0	94.4
Jun 29	80.0	66.8	99.3
Summary	**75.8**	**66.1**	**85.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 64

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	66.2	56.2	80.9
Jun 2	68.3	47.9	90.6
Jun 3	73.0	49.1	97.6
Jun 4	76.4	57.4	97.2
Jun 5	76.2	65.0	93.6
Jun 6	75.1	61.6	94.9
Jun 7	72.7	64.5	92.3
Jun 8	73.2	64.7	90.1
Jun 9	72.7	59.4	90.6
Jun 10	73.2	60.2	92.1
Jun 11	74.1	54.7	97.8
Jun 12	76.4	58.8	100.2
Jun 13	78.0	65.6	96.9
Jun 14	77.7	66.7	97.8
Jun 15	73.0	68.2	89.9
Jun 16	74.7	68.6	88.6
Jun 17	78.7	67.5	97.7
Jun 18	73.9	67.4	87.9
Jun 19	72.6	65.2	88.5
Jun 20	76.3	63.0	95.3
Jun 21	79.1	62.1	99.4
Jun 22	82.8	65.1	105.2
Jun 23	83.9	67.1	104.6
Jun 24	86.8	69.5	108.9
Jun 25	85.8	68.5	107.4
Jun 26	77.5	70.8	100.2
Jun 27	81.2	66.3	103.4
Jun 28	79.0	67.2	101.9
Jun 29	80.9	67.0	99.8
Summary	**76.5**	**66.2**	**86.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 65

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	134.2	133.3	135.0
Jun 2	136.9	132.6	140.6
Jun 3	135.8	133.1	139.4
Jun 4	138.2	133.2	142.1
Jun 5	137.8	135.6	141.3
Jun 6	137.2	134.7	141.4
Jun 7	135.4	132.8	136.8
Jun 8	134.8	133.7	135.9
Jun 9	136.8	134.5	140.3
Jun 10	136.9	133.9	141.2
Jun 11	136.2	133.9	140.8
Jun 12	136.8	134.8	139.8
Jun 13	136.3	133.0	138.6
Jun 14	136.4	134.6	138.3
Jun 15	135.9	134.0	137.4
Jun 16	136.3	135.2	138.7
Jun 17	135.8	133.9	137.9
Jun 18	135.5	134.6	136.5
Jun 19	135.2	133.4	137.6
Jun 20	136.7	135.2	138.6
Jun 21	136.3	134.5	138.4
Jun 22	136.6	134.6	139.2
Jun 23	136.8	134.7	138.7
Jun 24	136.9	135.0	139.5
Jun 25	136.7	117.4	138.9
Jun 26	136.5	135.1	138.6
Jun 27	136.5	134.3	138.4
Jun 28	136.2	134.5	138.0
Jun 29	136.4	135.4	137.7
Summary	**136.3**	**134.2**	**138.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 66

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	156.0	153.7	158.3
Jun 2	158.8	153.2	163.8
Jun 3	160.3	153.4	166.3
Jun 4	162.1	157.1	166.4
Jun 5	162.1	160.1	164.6
Jun 6	160.7	158.6	163.5
Jun 7	157.3	125.0	162.6
Jun 8	154.5	148.9	158.2
Jun 9	158.1	154.8	161.6
Jun 10	157.5	153.7	161.3
Jun 11	159.5	155.8	163.0
Jun 12	160.1	157.2	163.4
Jun 13	160.9	157.1	163.9
Jun 14	161.1	158.4	163.2
Jun 15	160.1	153.9	162.5
Jun 16	161.2	154.9	164.2
Jun 17	157.1	129.9	162.1
Jun 18	158.4	155.9	160.7
Jun 19	157.7	151.7	160.2
Jun 20	159.9	157.6	163.7
Jun 21	159.4	156.5	163.8
Jun 22	160.8	156.8	165.6
Jun 23	162.6	158.9	166.8
Jun 24	164.3	161.3	167.8
Jun 25	164.6	155.4	168.1
Jun 26	161.6	131.1	166.7
Jun 27	163.2	161.0	167.0
Jun 28	163.0	159.3	166.1
Jun 29	164.3	162.3	167.7
Summary	**160.3**	**154.5**	**164.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 67

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	138.6	135.6	141.3
Jun 2	139.1	125.1	148.7
Jun 3	142.1	131.3	151.7
Jun 4	145.4	138.0	151.7
Jun 5	145.1	142.5	148.6
Jun 6	144.7	140.9	149.8
Jun 7	143.3	129.4	148.9
Jun 8	145.0	139.8	147.3
Jun 9	145.8	142.4	149.7
Jun 10	144.3	140.8	151.0
Jun 11	145.8	139.6	152.6
Jun 12	147.9	141.6	155.2
Jun 13	148.9	144.1	154.6
Jun 14	149.2	145.9	154.1
Jun 15	147.8	142.0	153.4
Jun 16	150.2	144.2	155.0
Jun 17	151.8	141.1	158.5
Jun 18	152.0	149.5	154.8
Jun 19	151.7	145.3	155.4
Jun 20	153.2	149.3	158.5
Jun 21	153.2	149.2	160.3
Jun 22	155.2	150.4	161.5
Jun 23	156.0	151.8	160.6
Jun 24	157.7	153.0	163.8
Jun 25	157.7	149.9	163.0
Jun 26	152.0	120.0	161.9
Jun 27	153.7	148.8	161.4
Jun 28	153.7	143.1	160.1
Jun 29	156.2	152.9	160.9
Summary	**149.2**	**138.6**	**157.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 68

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	135.0	133.8	136.9
Jun 2	136.6	128.6	142.7
Jun 3	139.6	135.3	145.0
Jun 4	139.5	136.1	143.2
Jun 5	139.5	138.0	142.9
Jun 6	139.4	137.5	142.9
Jun 7	138.7	136.5	140.5
Jun 8	138.4	137.0	139.7
Jun 9	138.5	136.3	140.1
Jun 10	137.8	136.2	139.6
Jun 11	138.5	136.4	142.5
Jun 12	138.8	136.6	141.4
Jun 13	139.1	136.7	141.4
Jun 14	138.7	137.1	141.2
Jun 15	138.1	136.9	139.6
Jun 16	138.6	135.7	140.5
Jun 17	139.4	135.4	141.4
Jun 18	138.1	136.9	139.3
Jun 19	137.4	135.0	138.9
Jun 20	137.4	135.8	138.6
Jun 21	136.5	134.9	139.3
Jun 22	136.7	133.8	141.2
Jun 23	138.6	134.4	143.1
Jun 24	139.7	137.9	142.4
Jun 25	139.0	114.4	142.9
Jun 26	138.8	135.9	140.7
Jun 27	138.3	132.4	141.5
Jun 28	138.1	135.6	141.3
Jun 29	138.7	136.9	141.1
Summary	**138.3**	**135.0**	**139.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 69

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	84.0	76.5	94.4
Jun 2	84.1	69.6	100.2
Jun 3	87.0	72.9	104.6
Jun 4	90.5	78.7	104.2
Jun 5	89.0	83.6	97.6
Jun 6	89.8	82.3	103.0
Jun 7	87.9	81.0	99.2
Jun 8	88.4	83.1	99.1
Jun 9	88.8	79.9	101.6
Jun 10	88.2	81.7	101.3
Jun 11	88.9	77.2	104.4
Jun 12	90.7	79.8	105.1
Jun 13	91.8	83.3	103.2
Jun 14	90.7	82.9	106.1
Jun 15	88.0	84.4	95.7
Jun 16	88.7	84.9	97.8
Jun 17	92.5	82.3	104.9
Jun 18	91.9	88.4	100.9
Jun 19	91.2	86.9	99.8
Jun 20	93.2	86.7	103.1
Jun 21	93.7	85.1	106.6
Jun 22	95.5	85.7	108.0
Jun 23	95.8	86.5	109.0
Jun 24	97.5	88.0	111.3
Jun 25	96.4	73.0	111.3
Jun 26	92.8	88.8	103.7
Jun 27	94.4	86.3	107.6
Jun 28	92.6	85.2	105.8
Jun 29	93.8	85.8	106.5
Summary	**91.0**	**84.0**	**97.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 70

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	67.0	59.0	81.9
Jun 2	69.2	51.4	91.1
Jun 3	74.4	52.5	100.5
Jun 4	76.9	59.1	100.6
Jun 5	76.0	66.0	92.2
Jun 6	76.5	63.6	96.1
Jun 7	73.5	67.0	89.0
Jun 8	74.0	67.1	87.3
Jun 9	74.6	62.6	95.3
Jun 10	75.5	65.4	94.8
Jun 11	75.8	58.9	101.5
Jun 12	78.2	61.8	104.1
Jun 13	79.2	67.6	97.8
Jun 14	79.3	68.8	97.0
Jun 15	74.6	69.8	85.2
Jun 16	76.9	70.4	88.4
Jun 17	79.2	69.1	95.2
Jun 18	74.9	69.9	88.7
Jun 19	74.7	69.4	87.9
Jun 20	78.1	66.6	96.8
Jun 21	80.1	64.8	101.1
Jun 22	84.7	67.3	105.4
Jun 23	84.3	69.6	104.4
Jun 24	87.6	71.2	108.2
Jun 25	86.4	69.7	108.3
Jun 26	78.5	72.7	97.0
Jun 27	83.2	68.9	101.6
Jun 28	80.7	70.3	98.8
Jun 29	81.9	70.0	103.9
Summary	**77.8**	**67.0**	**87.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 71

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	136.4	135.9	137.2
Jun 2	137.1	135.8	138.8
Jun 3	137.8	136.4	139.8
Jun 4	138.2	137.3	139.3
Jun 5	138.0	137.0	138.7
Jun 6	138.0	137.2	138.7
Jun 7	137.8	136.6	138.6
Jun 8	137.8	137.1	138.3
Jun 9	138.2	137.5	138.8
Jun 10	138.0	137.3	139.0
Jun 11	138.3	137.3	139.4
Jun 12	138.4	137.6	139.4
Jun 13	138.4	136.1	139.6
Jun 14	138.4	137.6	140.0
Jun 15	138.2	136.8	139.2
Jun 16	138.3	137.8	138.6
Jun 17	138.2	137.1	139.6
Jun 18	138.0	137.1	138.9
Jun 19	137.7	135.3	138.6
Jun 20	138.3	137.5	139.3
Jun 21	138.6	137.6	139.6
Jun 22	138.8	137.9	140.2
Jun 23	139.1	138.2	140.1
Jun 24	139.2	138.0	140.6
Jun 25	138.5	122.2	140.2
Jun 26	138.8	137.6	140.2
Jun 27	138.9	136.8	140.4
Jun 28	138.7	137.4	139.9
Jun 29	139.0	138.3	140.3
Summary	**138.3**	**136.4**	**139.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 72

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	134.6	134.0	135.5
Jun 2	135.8	133.4	138.3
Jun 3	136.6	134.7	139.1
Jun 4	137.0	135.2	139.2
Jun 5	136.9	135.7	138.4
Jun 6	137.0	135.2	138.0
Jun 7	136.6	133.4	138.1
Jun 8	136.3	134.6	137.1
Jun 9	137.0	136.0	138.2
Jun 10	136.5	135.5	138.0
Jun 11	137.2	135.3	139.1
Jun 12	137.6	136.3	139.5
Jun 13	137.6	132.6	139.6
Jun 14	137.4	135.7	139.7
Jun 15	137.1	134.2	138.7
Jun 16	137.5	135.9	138.9
Jun 17	136.6	133.9	139.1
Jun 18	136.4	135.2	138.1
Jun 19	135.9	132.3	137.5
Jun 20	136.9	135.6	139.3
Jun 21	136.9	135.1	139.0
Jun 22	137.4	135.7	139.9
Jun 23	138.0	136.3	140.1
Jun 24	138.4	136.5	140.8
Jun 25	137.4	115.2	140.4
Jun 26	137.5	134.0	139.5
Jun 27	137.6	133.6	140.3
Jun 28	137.1	133.6	139.7
Jun 29	137.8	136.1	139.9
Summary	**137.0**	**134.6**	**138.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 73

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	106.0	105.3	107.0
Jun 2	106.6	104.9	108.7
Jun 3	107.0	105.4	109.0
Jun 4	107.1	105.6	108.6
Jun 5	106.9	106.1	108.7
Jun 6	106.6	105.9	108.0
Jun 7	106.4	105.4	107.9
Jun 8	106.4	105.7	107.5
Jun 9	106.6	105.7	107.8
Jun 10	106.5	105.5	107.9
Jun 11	106.6	105.2	108.5
Jun 12	106.7	105.4	108.5
Jun 13	106.7	105.7	108.3
Jun 14	106.7	105.4	108.4
Jun 15	106.2	105.4	107.5
Jun 16	106.5	105.7	108.0
Jun 17	107.4	105.4	109.6
Jun 18	107.9	107.5	109.0
Jun 19	107.7	107.0	108.6
Jun 20	108.2	107.2	109.6
Jun 21	108.1	107.2	109.4
Jun 22	108.1	107.1	109.8
Jun 23	108.3	107.1	109.7
Jun 24	108.7	107.5	110.7
Jun 25	108.0	97.7	109.9
Jun 26	107.9	107.1	109.2
Jun 27	108.2	107.2	109.8
Jun 28	108.1	107.3	109.4
Jun 29	108.2	107.3	109.6
Summary	**107.3**	**106.0**	**108.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 74

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	124.6	123.5	125.6
Jun 2	124.9	121.1	127.9
Jun 3	125.2	122.0	129.3
Jun 4	125.7	123.3	129.3
Jun 5	127.0	125.2	129.0
Jun 6	127.1	125.4	129.1
Jun 7	127.0	118.3	129.0
Jun 8	126.7	124.9	128.2
Jun 9	126.7	125.1	128.8
Jun 10	125.1	123.7	127.4
Jun 11	125.6	123.5	128.8
Jun 12	126.5	123.4	130.1
Jun 13	127.1	122.1	130.3
Jun 14	127.2	125.1	129.7
Jun 15	126.2	121.2	128.4
Jun 16	126.6	124.7	128.3
Jun 17	124.3	120.0	129.0
Jun 18	122.8	119.6	125.8
Jun 19	123.6	120.1	127.0
Jun 20	125.1	122.3	129.8
Jun 21	126.0	122.9	129.9
Jun 22	127.2	123.5	131.5
Jun 23	128.7	124.8	132.5
Jun 24	128.7	124.6	133.7
Jun 25	129.0	112.2	134.1
Jun 26	128.0	118.4	132.3
Jun 27	128.0	117.7	134.0
Jun 28	126.6	118.1	131.3
Jun 29	129.0	126.1	133.3
Summary	**126.4**	**122.8**	**129.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 75

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	125.5	125.2	125.8
Jun 2	126.2	124.9	128.0
Jun 3	126.8	125.7	128.3
Jun 4	126.9	125.7	128.4
Jun 5	126.7	126.2	127.6
Jun 6	126.7	126.0	128.1
Jun 7	126.4	125.5	127.7
Jun 8	126.1	125.6	127.2
Jun 9	126.7	125.9	127.6
Jun 10	126.6	125.8	127.8
Jun 11	127.0	125.9	128.6
Jun 12	127.2	126.2	128.6
Jun 13	127.1	126.3	128.5
Jun 14	127.0	126.3	128.3
Jun 15	126.5	125.5	126.9
Jun 16	126.6	126.3	127.1
Jun 17	126.8	124.7	128.4
Jun 18	126.4	125.8	127.1
Jun 19	126.4	125.7	127.5
Jun 20	126.9	126.0	128.4
Jun 21	127.2	126.2	128.6
Jun 22	127.4	126.1	128.9
Jun 23	127.7	126.4	129.0
Jun 24	128.0	126.6	129.7
Jun 25	127.7	123.3	129.0
Jun 26	127.1	125.8	128.4
Jun 27	127.5	125.2	129.3
Jun 28	127.2	125.9	128.8
Jun 29	127.6	126.8	128.9
Summary	**126.9**	**125.5**	**128.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 76

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	126.9	126.7	127.2
Jun 2	127.1	126.7	127.7
Jun 3	127.2	126.8	127.8
Jun 4	127.2	126.8	127.6
Jun 5	127.2	126.9	127.6
Jun 6	127.1	126.8	127.5
Jun 7	127.0	126.6	127.3
Jun 8	126.9	126.7	127.1
Jun 9	127.0	126.7	127.4
Jun 10	127.0	126.7	127.5
Jun 11	127.0	126.7	127.4
Jun 12	127.1	126.7	127.7
Jun 13	127.0	126.8	127.4
Jun 14	127.1	126.7	127.6
Jun 15	126.8	126.6	127.0
Jun 16	126.9	126.6	127.2
Jun 17	126.9	126.5	127.3
Jun 18	126.8	126.6	127.1
Jun 19	126.7	126.4	127.1
Jun 20	126.9	126.5	127.3
Jun 21	126.8	126.5	127.2
Jun 22	126.9	126.4	127.5
Jun 23	127.0	126.6	127.5
Jun 24	127.0	126.6	127.6
Jun 25	126.4	111.3	127.6
Jun 26	126.8	126.5	127.4
Jun 27	126.9	126.5	127.3
Jun 28	126.8	126.4	127.2
Jun 29	126.8	126.5	127.3
Summary	**126.9**	**126.4**	**127.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 77

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	75.7	67.4	89.2
Jun 2	80.8	61.0	105.2
Jun 3	82.4	58.7	109.1
Jun 4	85.1	63.1	107.2
Jun 5	85.6	72.6	134.6
Jun 6	81.9	69.9	100.2
Jun 7	78.0	65.5	98.8
Jun 8	78.8	68.1	92.5
Jun 9	80.8	66.9	95.4
Jun 10	80.6	67.6	101.8
Jun 11	82.3	63.4	103.2
Jun 12	83.1	66.7	103.2
Jun 13	83.2	68.8	104.4
Jun 14	81.8	69.5	103.8
Jun 15	76.9	70.0	91.8
Jun 16	78.5	71.9	91.0
Jun 17	81.9	69.4	102.1
Jun 18	76.6	69.0	93.0
Jun 19	75.3	68.3	93.8
Jun 20	80.7	66.4	99.3
Jun 21	84.2	65.7	106.0
Jun 22	88.2	69.2	110.7
Jun 23	89.6	71.8	107.9
Jun 24	91.4	73.3	115.2
Jun 25	90.9	72.5	111.3
Jun 26	81.4	74.0	106.0
Jun 27	85.9	69.3	108.5
Jun 28	81.6	69.3	103.5
Jun 29	85.1	70.4	102.1
Summary	**82.4**	**75.3**	**91.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 78

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	106.3	104.2	109.3
Jun 2	109.3	101.7	115.3
Jun 3	110.4	104.5	116.4
Jun 4	111.7	107.7	116.4
Jun 5	112.0	108.9	115.5
Jun 6	111.2	108.0	114.8
Jun 7	110.5	105.9	114.3
Jun 8	110.0	107.8	112.3
Jun 9	110.6	107.7	114.0
Jun 10	110.4	107.3	114.3
Jun 11	111.7	107.0	117.9
Jun 12	112.9	109.6	116.9
Jun 13	113.2	109.7	116.1
Jun 14	113.9	111.4	117.0
Jun 15	112.8	108.8	115.6
Jun 16	113.5	109.8	116.4
Jun 17	113.5	109.9	116.6
Jun 18	112.6	110.8	115.4
Jun 19	112.5	108.8	115.4
Jun 20	112.9	110.4	116.2
Jun 21	111.7	107.4	116.1
Jun 22	111.9	105.5	118.3
Jun 23	111.5	108.1	116.2
Jun 24	112.1	105.2	119.0
Jun 25	113.7	102.1	118.9
Jun 26	112.8	108.2	115.5
Jun 27	113.4	106.4	118.9
Jun 28	114.1	111.1	118.0
Jun 29	114.7	112.0	118.8
Summary	**112.0**	**106.3**	**114.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 79

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	70.5	59.5	86.2
Jun 2	74.2	52.1	100.9
Jun 3	78.4	54.1	106.1
Jun 4	82.0	61.7	104.9
Jun 5	80.2	69.5	95.3
Jun 6	79.7	66.1	100.3
Jun 7	76.1	65.6	96.9
Jun 8	76.3	67.1	94.6
Jun 9	77.6	63.6	95.7
Jun 10	77.9	65.1	99.4
Jun 11	79.5	59.7	103.0
Jun 12	81.0	63.3	103.6
Jun 13	83.1	68.9	103.1
Jun 14	81.9	69.1	104.7
Jun 15	76.1	70.2	88.0
Jun 16	77.8	71.0	91.7
Jun 17	81.5	69.4	102.5
Jun 18	76.9	69.6	95.3
Jun 19	75.7	68.5	95.4
Jun 20	80.4	66.4	99.9
Jun 21	83.4	65.1	106.9
Jun 22	87.6	68.1	113.6
Jun 23	88.7	71.0	112.5
Jun 24	91.1	72.7	116.2
Jun 25	90.1	71.6	113.5
Jun 26	80.9	69.6	102.9
Jun 27	85.5	69.1	110.9
Jun 28	81.2	69.1	102.6
Jun 29	84.5	70.0	105.7
Summary	**80.7**	**70.5**	**91.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 80

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	67.1	55.9	85.7
Jun 2	70.1	48.4	96.2
Jun 3	76.4	49.5	104.1
Jun 4	80.0	58.1	102.6
Jun 5	78.5	65.5	97.9
Jun 6	78.4	62.1	100.1
Jun 7	73.6	65.2	93.0
Jun 8	74.7	65.5	91.7
Jun 9	75.7	60.2	96.8
Jun 10	74.7	61.4	97.3
Jun 11	77.0	55.2	103.9
Jun 12	80.6	59.3	107.8
Jun 13	81.1	66.4	101.3
Jun 14	79.8	67.2	100.5
Jun 15	73.9	68.5	86.9
Jun 16	76.4	68.9	93.3
Jun 17	81.0	68.0	100.1
Jun 18	74.9	67.9	90.3
Jun 19	74.2	65.9	90.1
Jun 20	78.2	63.5	98.9
Jun 21	81.2	62.0	102.7
Jun 22	85.2	64.8	108.8
Jun 23	85.7	67.3	108.5
Jun 24	90.1	69.6	112.1
Jun 25	88.5	68.9	114.6
Jun 26	80.6	71.1	105.8
Jun 27	83.7	66.5	107.2
Jun 28	79.5	67.7	102.4
Jun 29	83.6	67.2	106.5
Summary	**78.8**	**67.1**	**90.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 81

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	163.8	163.1	164.8
Jun 2	163.9	162.5	164.8
Jun 3	163.6	161.9	166.2
Jun 4	165.9	164.5	167.3
Jun 5	166.7	165.9	167.8
Jun 6	166.6	165.6	167.3
Jun 7	166.1	160.9	167.6
Jun 8	165.8	163.7	166.6
Jun 9	165.9	164.3	167.4
Jun 10	165.3	164.3	166.4
Jun 11	165.5	163.6	166.9
Jun 12	165.9	164.1	167.4
Jun 13	166.1	164.9	167.6
Jun 14	166.0	165.3	167.1
Jun 15	165.4	163.5	166.5
Jun 16	165.5	163.7	166.3
Jun 17	165.8	161.1	169.0
Jun 18	166.8	164.8	168.7
Jun 19	167.0	163.3	168.8
Jun 20	167.9	166.9	169.4
Jun 21	168.9	167.3	170.5
Jun 22	170.2	168.5	171.6
Jun 23	170.6	169.8	171.9
Jun 24	170.2	168.9	172.2
Jun 25	169.6	141.5	172.8
Jun 26	169.3	161.7	171.3
Jun 27	169.3	165.3	171.3
Jun 28	168.7	166.8	170.7
Jun 29	169.8	167.5	171.2
Summary	**167.0**	**163.6**	**170.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 82

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	171.2	169.0	173.1
Jun 2	172.7	171.2	174.1
Jun 3	172.8	170.9	174.1
Jun 4	172.7	171.1	173.8
Jun 5	173.4	172.6	174.9
Jun 6	172.5	170.9	173.7
Jun 7	172.2	170.1	174.1
Jun 8	171.6	168.2	173.6
Jun 9	172.5	170.6	173.9
Jun 10	171.8	170.5	172.9
Jun 11	172.4	171.0	173.2
Jun 12	172.6	170.6	174.2
Jun 13	172.5	170.7	173.6
Jun 14	172.5	170.2	173.5
Jun 15	172.0	169.8	173.5
Jun 16	172.5	170.6	173.3
Jun 17	170.5	165.4	173.0
Jun 18	169.9	167.8	172.0
Jun 19	169.1	164.4	172.4
Jun 20	170.4	169.0	172.3
Jun 21	171.5	169.6	172.8
Jun 22	172.4	170.1	173.8
Jun 23	173.3	171.8	174.4
Jun 24	172.9	156.9	174.9
Jun 25	173.8	167.5	174.9
Jun 26	172.1	160.6	174.8
Jun 27	171.5	169.3	173.4
Jun 28	171.5	169.9	173.4
Jun 29	172.4	171.2	173.6
Summary	**172.0**	**169.1**	**173.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 83

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	172.3	171.5	172.9
Jun 2	172.3	171.0	172.9
Jun 3	171.9	171.0	172.8
Jun 4	172.2	171.1	173.1
Jun 5	172.1	171.3	172.9
Jun 6	172.1	171.6	172.7
Jun 7	171.8	170.4	172.6
Jun 8	171.4	169.4	172.2
Jun 9	171.9	171.2	172.6
Jun 10	171.5	170.1	172.1
Jun 11	171.7	171.0	172.6
Jun 12	171.7	170.8	172.5
Jun 13	171.7	169.0	172.7
Jun 14	171.8	171.1	172.3
Jun 15	171.4	170.0	172.3
Jun 16	171.5	170.5	172.1
Jun 17	171.2	169.9	172.0
Jun 18	171.1	170.2	171.7
Jun 19	171.0	169.2	171.9
Jun 20	171.3	170.7	172.3
Jun 21	171.5	170.6	172.3
Jun 22	171.8	171.1	172.5
Jun 23	171.5	170.8	172.1
Jun 24	171.2	169.6	172.1
Jun 25	170.9	162.2	173.9
Jun 26	170.4	158.5	171.9
Jun 27	170.8	169.9	172.2
Jun 28	170.5	168.7	171.7
Jun 29	170.9	170.2	171.7
Summary	**171.5**	**170.4**	**172.3**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 84

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	171.7	169.4	174.8
Jun 2	171.7	168.6	180.8
Jun 3	168.5	167.9	169.1
Jun 4	168.2	167.7	168.7
Jun 5	168.1	167.8	168.5
Jun 6	168.0	167.7	168.3
Jun 7	167.9	167.3	168.4
Jun 8	167.6	167.4	167.9
Jun 9	167.6	167.3	168.2
Jun 10	167.4	167.1	167.9
Jun 11	167.3	166.9	167.9
Jun 12	167.2	166.7	167.9
Jun 13	167.2	166.6	167.8
Jun 14	167.1	166.8	167.8
Jun 15	166.9	166.5	167.2
Jun 16	166.8	166.6	167.2
Jun 17	166.7	166.3	167.1
Jun 18	166.4	166.1	166.7
Jun 19	166.3	165.9	166.8
Jun 20	166.2	165.8	166.7
Jun 21	166.4	165.6	167.1
Jun 22	166.6	166.0	167.3
Jun 23	166.5	166.0	167.0
Jun 24	166.3	165.7	166.9
Jun 25	166.1	159.7	167.3
Jun 26	166.1	165.7	166.5
Jun 27	166.0	165.4	166.8
Jun 28	165.8	165.3	166.6
Jun 29	166.0	165.5	166.5
Summary	**167.3**	**165.8**	**171.7**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 85

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	149.4	147.8	150.3
Jun 2	153.8	147.8	159.7
Jun 3	156.8	154.6	160.0
Jun 4	157.3	155.5	160.3
Jun 5	158.2	156.8	160.1
Jun 6	157.7	156.1	159.0
Jun 7	157.7	155.7	159.1
Jun 8	157.0	153.5	158.2
Jun 9	155.7	151.5	158.8
Jun 10	157.1	156.0	158.9
Jun 11	157.4	155.9	159.7
Jun 12	157.7	155.2	159.7
Jun 13	156.1	150.6	159.4
Jun 14	154.2	152.3	156.4
Jun 15	156.6	154.1	158.2
Jun 16	157.3	154.5	159.3
Jun 17	156.8	152.6	159.9
Jun 18	157.2	153.7	158.8
Jun 19	155.2	150.6	158.3
Jun 20	153.9	150.2	157.1
Jun 21	153.6	150.2	156.0
Jun 22	153.4	151.3	157.3
Jun 23	156.0	151.9	160.3
Jun 24	157.5	148.2	161.2
Jun 25	157.2	134.9	159.7
Jun 26	156.9	154.9	157.5
Jun 27	157.6	154.7	160.4
Jun 28	157.4	155.4	160.0
Jun 29	157.8	156.6	160.2
Summary	**156.2**	**149.4**	**158.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 86

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	146.6	146.1	147.4
Jun 2	146.4	145.2	147.2
Jun 3	146.1	144.7	147.3
Jun 4	146.2	145.1	147.2
Jun 5	146.3	145.7	147.3
Jun 6	146.4	145.7	147.3
Jun 7	146.3	145.5	147.1
Jun 8	146.3	145.9	147.0
Jun 9	146.3	145.7	147.2
Jun 10	145.9	145.4	146.9
Jun 11	145.9	145.1	146.9
Jun 12	146.0	145.1	147.2
Jun 13	146.1	145.4	147.1
Jun 14	146.1	145.4	147.1
Jun 15	145.7	145.2	146.4
Jun 16	145.8	145.3	146.4
Jun 17	145.6	144.7	146.8
Jun 18	145.3	145.0	146.4
Jun 19	145.4	144.7	146.5
Jun 20	145.5	144.9	146.3
Jun 21	146.3	132.0	151.2
Jun 22	150.2	146.6	154.4
Jun 23	149.6	147.7	153.2
Jun 24	147.3	146.3	148.2
Jun 25	147.1	145.8	152.9
Jun 26	146.2	145.1	147.3
Jun 27	146.2	144.7	147.7
Jun 28	146.0	145.3	147.2
Jun 29	146.3	145.6	147.2
Summary	**146.4**	**145.3**	**150.2**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 87

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	107.2	102.7	112.1
Jun 2	111.5	89.8	127.6
Jun 3	113.8	96.4	130.3
Jun 4	117.6	104.7	128.8
Jun 5	115.3	111.3	123.1
Jun 6	113.8	106.4	120.1
Jun 7	109.4	91.4	118.6
Jun 8	108.3	100.4	112.6
Jun 9	113.4	107.7	119.2
Jun 10	110.3	102.6	120.0
Jun 11	113.3	102.1	124.7
Jun 12	113.5	102.1	126.1
Jun 13	112.9	93.9	125.5
Jun 14	112.9	105.1	121.3
Jun 15	108.2	95.4	117.5
Jun 16	110.7	101.9	117.1
Jun 17	107.6	91.3	124.8
Jun 18	106.6	101.1	115.7
Jun 19	104.4	94.5	113.9
Jun 20	109.9	102.5	121.7
Jun 21	111.5	98.1	126.8
Jun 22	115.5	102.8	128.8
Jun 23	117.7	106.2	129.3
Jun 24	119.1	108.5	132.9
Jun 25	118.3	105.1	131.2
Jun 26	111.5	89.5	128.6
Jun 27	114.1	94.2	131.2
Jun 28	109.3	91.3	126.3
Jun 29	113.7	105.3	123.9
Summary	**112.1**	**104.4**	**119.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 88

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	174.5	174.0	175.2
Jun 2	173.2	171.9	174.9
Jun 3	171.8	170.4	172.7
Jun 4	170.2	169.4	170.8
Jun 5	170.8	166.8	173.9
Jun 6	172.5	171.1	173.6
Jun 7	172.7	171.7	173.5
Jun 8	173.2	172.6	174.3
Jun 9	173.2	172.4	173.8
Jun 10	172.8	172.2	173.3
Jun 11	172.2	170.8	173.2
Jun 12	172.3	170.4	173.1
Jun 13	170.4	169.0	171.3
Jun 14	171.5	170.4	172.8
Jun 15	170.0	169.4	171.8
Jun 16	170.4	169.5	172.4
Jun 17	171.0	168.2	173.0
Jun 18	171.9	171.1	172.5
Jun 19	171.0	169.9	172.0
Jun 20	170.2	169.1	172.1
Jun 21	170.5	168.7	171.8
Jun 22	171.1	170.3	172.0
Jun 23	172.4	170.6	174.0
Jun 24	172.5	170.9	173.8
Jun 25	172.3	170.8	178.4
Jun 26	171.0	170.2	173.2
Jun 27	172.1	169.7	174.1
Jun 28	172.1	171.1	173.6
Jun 29	171.0	168.8	173.2
Summary	**171.8**	**170.0**	**174.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 89

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	200.4	199.5	200.9
Jun 2	197.6	196.6	200.3
Jun 3	176.4	74.2	201.4
Jun 4	132.3	62.7	200.9
Jun 5	200.3	198.1	201.0
Jun 6	197.3	196.8	198.0
Jun 7	196.5	195.8	196.9
Jun 8	195.9	195.4	196.3
Jun 9	198.9	195.7	201.0
Jun 10	200.7	200.5	200.9
Jun 11	200.8	200.6	201.2
Jun 12	200.9	200.7	201.2
Jun 13	200.8	200.6	201.0
Jun 14	200.5	198.7	200.9
Jun 15	200.7	200.5	200.8
Jun 16	200.7	200.5	200.8
Jun 17	199.6	197.5	200.9
Jun 18	200.4	198.3	200.8
Jun 19	199.3	197.1	200.8
Jun 20	200.1	197.5	200.9
Jun 21	196.9	196.5	197.4
Jun 22	196.4	196.1	196.8
Jun 23	198.9	195.7	201.2
Jun 24	201.0	200.8	201.3
Jun 25	200.3	198.2	201.0
Jun 26	199.9	197.5	200.9
Jun 27	187.4	169.8	200.7
Jun 28	164.3	160.2	169.1
Jun 29	157.5	154.1	159.8
Summary	**193.2**	**132.3**	**201.0**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 90

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	137.2	136.9	137.7
Jun 2	137.4	136.2	138.3
Jun 3	137.4	136.3	138.3
Jun 4	137.5	136.8	138.2
Jun 5	137.5	137.1	138.0
Jun 6	137.5	137.0	138.2
Jun 7	137.4	136.6	138.0
Jun 8	137.4	137.1	137.9
Jun 9	137.4	136.9	138.0
Jun 10	137.2	136.9	137.8
Jun 11	137.3	136.7	138.0
Jun 12	137.3	136.7	138.0
Jun 13	137.3	136.8	138.1
Jun 14	137.3	136.8	138.1
Jun 15	137.0	136.7	137.5
Jun 16	137.1	136.7	137.5
Jun 17	137.1	136.4	137.7
Jun 18	136.9	136.7	137.3
Jun 19	136.8	136.4	137.4
Jun 20	136.8	136.4	137.4
Jun 21	136.9	136.3	137.8
Jun 22	137.2	136.5	138.4
Jun 23	137.3	136.7	138.2
Jun 24	137.4	136.6	138.2
Jun 25	137.0	126.7	138.1
Jun 26	137.0	136.3	137.8
Jun 27	137.0	136.2	137.9
Jun 28	136.8	136.1	137.6
Jun 29	137.1	136.5	137.7
Summary	**137.2**	**136.8**	**137.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 91

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	156.8	154.9	158.5
Jun 2	157.3	152.6	159.1
Jun 3	142.6	79.5	157.8
Jun 4	156.6	154.8	158.3
Jun 5	157.4	155.9	158.5
Jun 6	158.0	157.1	159.0
Jun 7	157.6	152.6	158.8
Jun 8	157.8	155.2	158.9
Jun 9	158.3	156.7	159.5
Jun 10	157.9	156.5	159.1
Jun 11	158.5	157.4	159.6
Jun 12	158.6	156.9	160.2
Jun 13	158.9	157.2	160.0
Jun 14	158.7	157.4	159.6
Jun 15	158.3	155.1	159.4
Jun 16	158.7	157.3	159.6
Jun 17	157.4	149.6	159.4
Jun 18	157.7	156.2	158.8
Jun 19	157.2	154.7	158.9
Jun 20	158.0	157.1	159.5
Jun 21	158.6	156.8	161.1
Jun 22	159.8	158.2	161.5
Jun 23	159.8	158.9	160.8
Jun 24	159.7	158.8	161.4
Jun 25	159.7	156.6	160.9
Jun 26	158.7	143.7	160.7
Jun 27	159.2	157.4	161.4
Jun 28	159.0	157.5	160.5
Jun 29	159.6	158.7	160.7
Summary	**157.8**	**142.6**	**159.8**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 92

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	148.4	134.3	166.0
Jun 2	160.4	147.4	172.5
Jun 3	163.0	146.8	175.1
Jun 4	168.3	156.2	177.4
Jun 5	171.6	164.7	175.2
Jun 6	168.9	158.0	174.4
Jun 7	166.2	147.2	178.9
Jun 8	163.5	136.8	178.7
Jun 9	172.5	158.6	180.1
Jun 10	169.0	161.0	177.8
Jun 11	174.9	168.7	181.3
Jun 12	176.1	169.0	181.8
Jun 13	173.2	125.8	181.0
Jun 14	174.8	165.8	180.3
Jun 15	171.6	151.7	181.6
Jun 16	176.4	167.7	181.4
Jun 17	169.9	140.0	181.1
Jun 18	171.2	162.2	181.0
Jun 19	169.4	139.7	182.2
Jun 20	178.1	173.5	185.1
Jun 21	178.4	168.9	185.1
Jun 22	180.5	175.5	184.7
Jun 23	181.6	178.0	184.4
Jun 24	181.2	167.6	186.4
Jun 25	181.8	175.8	186.1
Jun 26	179.1	141.9	185.5
Jun 27	180.2	162.1	186.9
Jun 28	179.6	170.2	185.6
Jun 29	181.9	173.0	185.3
Summary	**172.8**	**148.4**	**181.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 93

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	69.3	60.5	82.6
Jun 2	72.7	52.8	97.9
Jun 3	76.5	53.5	106.1
Jun 4	80.5	61.2	104.2
Jun 5	79.9	69.7	94.6
Jun 6	79.1	67.0	98.4
Jun 7	76.8	68.9	93.8
Jun 8	76.9	69.4	90.6
Jun 9	76.2	64.2	94.7
Jun 10	76.6	64.5	98.0
Jun 11	78.7	60.5	105.5
Jun 12	81.2	65.0	106.5
Jun 13	82.0	71.2	103.0
Jun 14	82.2	70.9	102.4
Jun 15	76.9	72.2	91.3
Jun 16	78.9	72.5	92.0
Jun 17	83.2	71.9	102.0
Jun 18	78.7	72.4	93.7
Jun 19	77.5	71.3	93.0
Jun 20	81.1	68.5	101.3
Jun 21	82.8	67.3	107.6
Jun 22	86.2	69.6	111.4
Jun 23	87.3	71.8	111.1
Jun 24	91.4	74.3	116.5
Jun 25	90.2	70.8	113.8
Jun 26	82.4	76.9	99.0
Jun 27	86.3	72.8	110.3
Jun 28	85.9	75.2	107.3
Jun 29	88.2	76.2	106.6
Summary	**80.9**	**69.3**	**91.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 94

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	162.6	149.5	174.9
Jun 2	161.7	145.1	176.5
Jun 3	174.5	173.2	178.3
Jun 4	175.4	174.3	178.2
Jun 5	176.5	174.8	178.6
Jun 6	176.1	174.7	178.3
Jun 7	176.0	173.8	178.5
Jun 8	175.9	174.7	178.1
Jun 9	172.7	160.7	175.7
Jun 10	175.9	174.5	178.2
Jun 11	175.4	174.2	178.2
Jun 12	175.0	173.9	178.1
Jun 13	175.5	174.2	177.6
Jun 14	160.6	155.4	169.1
Jun 15	152.4	149.6	156.0
Jun 16	149.7	147.3	153.6
Jun 17	157.9	143.1	175.7
Jun 18	173.9	172.6	176.7
Jun 19	173.1	171.4	176.1
Jun 20	173.0	171.8	175.7
Jun 21	172.3	171.1	175.4
Jun 22	172.6	171.3	175.2
Jun 23	172.4	171.5	175.3
Jun 24	172.6	171.1	175.1
Jun 25	172.6	171.4	175.4
Jun 26	172.9	170.2	175.9
Jun 27	173.0	172.0	175.7
Jun 28	172.3	166.2	175.7
Jun 29	172.2	171.2	174.8
Summary	**170.6**	**149.7**	**176.5**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 95

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	68.3	55.8	87.7
Jun 2	72.3	49.5	101.2
Jun 3	79.7	57.8	106.9
Jun 4	98.2	62.3	139.9
Jun 5	106.4	82.4	140.0
Jun 6	90.5	72.1	104.5
Jun 7	82.7	72.0	99.4
Jun 8	83.9	73.8	96.5
Jun 9	82.8	71.6	100.3
Jun 10	80.4	68.5	100.0
Jun 11	83.3	67.1	104.2
Jun 12	84.8	69.2	105.4
Jun 13	85.1	71.5	104.6
Jun 14	83.4	69.2	105.3
Jun 15	80.5	75.0	92.8
Jun 16	101.0	78.5	138.3
Jun 17	130.9	92.2	140.2
Jun 18	136.1	128.2	138.7
Jun 19	135.7	129.9	138.6
Jun 20	132.4	122.6	139.2
Jun 21	100.5	72.1	119.3
Jun 22	85.4	65.0	113.8
Jun 23	87.0	67.7	111.0
Jun 24	91.4	73.5	117.7
Jun 25	91.3	70.4	113.7
Jun 26	85.0	76.9	104.6
Jun 27	89.3	74.3	108.6
Jun 28	85.7	75.9	104.3
Jun 29	89.5	77.9	106.6
Summary	**93.2**	**68.3**	**136.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 96

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	136.0	134.0	137.6
Jun 2	136.5	132.0	138.6
Jun 3	136.6	134.1	139.5
Jun 4	137.3	135.4	139.4
Jun 5	136.7	135.2	138.0
Jun 6	137.1	135.7	138.6
Jun 7	136.7	130.6	138.4
Jun 8	137.0	133.7	138.1
Jun 9	137.7	136.3	139.0
Jun 10	137.5	136.0	139.1
Jun 11	138.5	136.5	141.3
Jun 12	138.8	137.1	140.7
Jun 13	139.2	137.4	141.3
Jun 14	139.3	138.3	140.8
Jun 15	138.8	137.3	139.9
Jun 16	139.2	135.3	140.2
Jun 17	137.2	132.4	139.6
Jun 18	137.5	136.5	138.7
Jun 19	137.2	134.9	138.8
Jun 20	138.2	137.2	140.0
Jun 21	139.5	136.5	143.0
Jun 22	141.4	139.1	143.9
Jun 23	140.9	139.6	142.8
Jun 24	140.3	138.7	142.3
Jun 25	139.5	119.9	141.9
Jun 26	138.2	123.2	141.1
Jun 27	139.5	135.2	142.5
Jun 28	139.5	137.4	142.2
Jun 29	140.4	139.3	141.9
Summary	**138.4**	**136.0**	**141.4**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 97

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	156.1	154.7	157.5
Jun 2	155.7	152.7	157.4
Jun 3	154.7	152.0	156.8
Jun 4	155.6	154.0	157.2
Jun 5	155.5	154.4	156.3
Jun 6	155.8	155.0	156.5
Jun 7	155.7	154.2	156.7
Jun 8	155.2	153.3	156.3
Jun 9	155.5	154.7	156.5
Jun 10	155.0	154.2	156.3
Jun 11	155.3	153.8	156.7
Jun 12	155.7	154.4	157.3
Jun 13	156.1	153.9	157.3
Jun 14	156.4	155.6	157.8
Jun 15	156.0	154.4	157.2
Jun 16	156.1	155.5	157.1
Jun 17	153.1	148.6	156.4
Jun 18	152.9	152.0	154.0
Jun 19	153.0	150.6	154.6
Jun 20	153.3	151.9	154.4
Jun 21	155.4	152.3	158.4
Jun 22	157.9	156.4	159.8
Jun 23	157.9	156.9	159.5
Jun 24	157.4	156.3	159.4
Jun 25	157.0	148.2	159.9
Jun 26	156.9	155.3	158.3
Jun 27	157.6	155.0	159.4
Jun 28	157.3	156.0	158.8
Jun 29	157.9	156.9	159.2
Summary	**155.8**	**152.9**	**157.9**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 98

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	66.8	56.2	82.3
Jun 2	69.5	48.1	95.7
Jun 3	74.1	50.8	101.8
Jun 4	78.5	58.3	102.1
Jun 5	78.8	66.2	97.7
Jun 6	77.1	62.6	96.5
Jun 7	73.6	65.6	91.1
Jun 8	74.4	65.7	90.3
Jun 9	75.4	60.6	94.3
Jun 10	78.6	63.9	95.0
Jun 11	77.0	56.1	103.3
Jun 12	80.6	60.2	104.5
Jun 13	87.1	78.4	99.7
Jun 14	87.8	79.2	99.7
Jun 15	84.5	80.2	92.9
Jun 16	87.8	81.9	97.6
Jun 17	88.2	75.0	101.8
Jun 18	86.4	82.5	95.5
Jun 19	85.0	80.2	93.8
Jun 20	87.7	78.3	100.5
Jun 21	89.2	77.3	103.8
Jun 22	91.5	80.3	107.0
Jun 23	93.0	82.2	108.3
Jun 24	96.1	84.2	112.6
Jun 25	95.3	83.2	111.9
Jun 26	90.3	85.4	102.1
Jun 27	92.4	82.3	107.8
Jun 28	91.5	83.9	104.7
Jun 29	93.1	83.4	107.6
Summary	**83.8**	**66.8**	**96.1**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 99

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	145.4	144.9	146.0
Jun 2	145.9	144.4	147.0
Jun 3	146.1	145.3	146.9
Jun 4	146.2	145.6	146.9
Jun 5	146.1	145.7	146.5
Jun 6	146.1	145.6	146.8
Jun 7	145.9	145.2	146.7
Jun 8	145.9	145.5	146.2
Jun 9	145.8	145.4	146.3
Jun 10	145.6	145.3	146.3
Jun 11	145.7	145.1	146.4
Jun 12	145.9	145.3	146.7
Jun 13	145.9	145.1	146.6
Jun 14	145.9	145.3	146.5
Jun 15	145.7	145.3	146.2
Jun 16	145.8	145.6	146.2
Jun 17	146.0	145.4	146.6
Jun 18	145.6	145.5	146.0
Jun 19	145.6	145.3	146.1
Jun 20	145.7	145.5	146.3
Jun 21	145.7	145.3	146.3
Jun 22	145.9	145.3	146.9
Jun 23	146.3	145.7	147.4
Jun 24	146.6	146.0	147.4
Jun 25	146.1	131.5	147.5
Jun 26	146.3	145.9	146.9
Jun 27	146.3	145.5	147.1
Jun 28	146.3	145.8	147.0
Jun 29	146.5	146.1	147.2
Summary	**146.0**	**145.4**	**146.6**

Solid Waste Permit 588 Daily Wellhead Temperature Averages for Well 100

Bristol, Virginia

Date	Average (°F)	Minimum (°F)	Maximum (°F)
Jun 1	154.6	154.1	155.1
Jun 2	136.6	128.6	142.7
Jun 3	155.6	154.3	156.9
Jun 4	139.5	136.1	143.2
Jun 5	155.9	155.5	156.6
Jun 6	139.4	137.5	142.9
Jun 7	156.0	155.0	156.8
Jun 8	138.4	137.0	139.7
Jun 9	156.5	155.9	157.2
Jun 10	137.8	136.2	139.6
Jun 11	156.6	156.0	157.5
Jun 12	138.8	136.6	141.4
Jun 13	156.9	156.3	157.8
Jun 14	138.7	137.1	141.2
Jun 15	156.8	156.3	157.2
Jun 16	138.6	135.7	140.5
Jun 17	157.1	155.8	158.0
Jun 18	138.1	136.9	139.3
Jun 19	156.9	156.3	157.6
Jun 20	137.4	135.8	138.6
Jun 21	157.2	156.3	158.5
Jun 22	136.7	133.8	141.2
Jun 23	157.8	157.0	158.7
Jun 24	139.7	137.9	142.4
Jun 25	157.6	149.1	158.7
Jun 26	138.8	135.9	140.7
Jun 27	157.8	157.0	159.0
Jun 28	138.1	135.6	141.3
Jun 29	158.0	157.3	158.8
Summary	**156.8**	**154.6**	**158.0**

Appendix D

Solid Waste Permit 588 Daily Borehole Temperature Averages

Appendix D Table of Contents

Section Page

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 1

	Depth from Surface					
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft
1-Jun	165.4	221.4	221.8	231.2	245.4	264.2
2-Jun	165.4	221.4	221.8	231.1	245.4	264.1
3-Jun	165.5	221.6	222.0	231.2	245.4	264.2
4-Jun	165.9	221.8	222.2	231.4	245.4	264.4
5-Jun	165.8	221.8	222.3	231.4	245.3	264.3
6-Jun	166.0	221.9	222.3	231.5	245.3	264.4
7-Jun	165.9	221.8	222.3	231.4	245.1	264.2
8-Jun	166.1	221.8	222.3	231.4	245.1	264.3
9-Jun	166.0	221.9	222.4	231.5	245.2	264.3
10-Jun	165.9	221.9	222.3	231.3	245.1	264.1
11-Jun	165.7	222.0	222.5	231.4	245.3	264.2
12-Jun	165.9	222.0	222.6	231.8	245.4	264.4
13-Jun	166.1	222.3	222.7	231.6	245.5	264.4
14-Jun	165.9	222.1	222.6	231.5	245.5	264.3
15-Jun	165.7	222.1	222.5	231.3	245.3	264.2
16-Jun	165.8	222.2	222.7	231.5	245.4	264.2
17-Jun	165.9	222.4	222.9	231.7	245.4	264.3
18-Jun	165.5	222.2	222.7	231.4	245.1	264.1
19-Jun	165.4	222.2	222.7	231.4	245.1	264.1
20-Jun	165.5	222.4	222.9	231.5	245.2	264.2
21-Jun	165.7	222.6	223.0	231.5	245.2	264.2
22-Jun	166.0	222.7	223.2	231.7	245.4	264.4
23-Jun	165.9	222.8	223.2	231.7	245.5	264.4
24-Jun	166.1	223.0	223.4	231.9	245.8	264.5
25-Jun	166.1	223.0	223.5	231.9	245.8	264.5
26-Jun	165.8	222.8	223.2	231.8	245.4	264.3
27-Jun	165.9	223.0	223.5	231.8	245.3	264.4
28-Jun	165.7	222.8	223.3	231.7	245.1	264.1
29-Jun	165.9	223.0	223.4	231.8	245.3	264.3
30-Jun	165.9	223.0	223.3	231.8	245.2	264.2
Average	**165.8**	**222.3**	**222.7**	**231.5**	**245.3**	**264.3**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 3

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jun	*	234.1	233.8	*	*	*	*	*
2-Jun	*	234.2	233.9	*	*	*	*	*
3-Jun	*	234.3	234.0	*	*	*	*	*
4-Jun	*	234.3	234.1	*	*	*	*	*
5-Jun	*	234.4	234.1	*	*	*	*	*
6-Jun	*	234.4	234.1	*	*	*	*	*
7-Jun	*	234.4	234.1	*	*	*	*	*
8-Jun	*	234.3	234.1	*	*	*	*	*
9-Jun	*	234.3	234.0	*	*	*	*	*
10-Jun	*	234.4	234.0	*	*	*	*	*
11-Jun	*	234.3	234.0	*	*	*	*	*
12-Jun	*	234.3	234.0	*	*	*	*	*
13-Jun	*	234.4	234.1	*	*	*	*	*
14-Jun	*	234.5	234.1	*	*	*	*	*
15-Jun	*	234.3	233.9	*	*	*	*	*
16-Jun	*	234.4	234.0	*	*	*	*	*
17-Jun	*	234.4	234.0	*	*	*	*	*
18-Jun	*	234.2	233.9	*	*	*	*	*
19-Jun	*	234.2	233.8	*	*	*	*	*
20-Jun	*	234.2	233.9	*	*	*	*	*
21-Jun	*	234.3	233.9	*	*	*	*	*
22-Jun	*	234.4	234.0	*	*	*	*	*
23-Jun	*	234.4	234.1	*	*	*	*	*
24-Jun	*	234.5	234.2	*	*	*	*	*
25-Jun	*	234.6	234.3	*	*	*	*	*
26-Jun	*	234.4	234.1	*	*	*	*	*
27-Jun	*	234.6	234.1	*	*	*	*	*
28-Jun	*	234.3	234.0	*	*	*	*	*
29-Jun	*	234.4	234.0	*	*	*	*	*
30-Jun	*	234.4	234.1	*	*	*	*	*
Average	**N/A**	**234.3**	**234.0**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

* Indicates sensor reading issues

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 5

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jun	146.5	213.6	213.9	227.5	237.1	239.8	214.0	204.6
2-Jun	146.5	213.7	213.9	227.5	237.0	239.8	214.0	204.5
3-Jun	146.7	213.8	214.0	227.6	237.2	239.9	214.1	204.7
4-Jun	146.9	213.9	214.1	227.6	237.1	240.0	214.1	204.8
5-Jun	146.7	213.9	214.1	227.7	237.1	239.9	214.1	204.8
6-Jun	146.7	213.8	214.0	227.6	236.9	239.9	214.1	204.8
7-Jun	146.7	213.8	214.0	227.5	236.8	239.8	214.0	204.8
8-Jun	146.6	213.8	214.0	227.5	236.7	239.8	214.0	204.7
9-Jun	146.6	213.7	213.9	227.4	236.6	239.7	213.9	204.6
10-Jun	147.0	213.7	214.0	227.5	236.7	239.8	214.0	204.8
11-Jun	146.9	213.8	214.0	227.4	236.6	239.8	214.0	204.8
12-Jun	147.3	213.7	213.9	227.4	236.6	239.7	214.0	204.8
13-Jun	148.2	213.9	214.0	227.6	236.7	239.9	214.2	204.9
14-Jun	147.6	213.9	214.1	227.5	236.7	239.9	214.2	205.0
15-Jun	147.3	213.6	213.9	227.3	236.5	239.7	214.0	204.8
16-Jun	147.9	213.7	214.0	227.4	236.5	239.7	214.0	204.8
17-Jun	146.9	213.9	214.1	227.5	236.6	239.8	214.1	204.9
18-Jun	146.5	213.7	213.9	227.5	236.4	239.6	213.9	204.8
19-Jun	146.3	213.7	213.9	227.4	236.3	239.5	213.9	204.7
20-Jun	147.7	213.7	214.0	227.4	236.4	239.6	214.0	204.7
21-Jun	147.9	213.8	214.0	227.6	236.5	239.7	214.1	204.8
22-Jun	148.1	213.9	214.1	227.7	236.5	239.8	214.2	205.0
23-Jun	148.1	213.8	214.0	227.8	236.6	239.9	214.3	205.0
24-Jun	147.9	213.8	214.0	227.9	236.6	240.0	214.3	205.1
25-Jun	147.5	213.7	213.9	227.8	236.6	239.9	214.3	205.1
26-Jun	147.3	213.5	213.7	227.5	236.2	239.6	214.0	204.8
27-Jun	146.5	213.6	213.8	227.5	236.4	239.7	214.1	204.9
28-Jun	146.6	213.4	213.7	227.5	236.3	239.6	214.1	204.9
29-Jun	147.2	213.6	213.7	227.6	236.4	239.7	214.1	205.0
30-Jun	146.3	213.5	213.7	227.5	236.3	239.6	214.1	204.9
Average	**147.1**	**213.7**	**213.9**	**227.5**	**236.6**	**239.8**	**214.1**	**204.8**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 6

	Depth from Surface				
Date	25 ft	50 ft	75 ft	100 ft	125 ft
1-Jun	206.8	195.0	93.4	195.2	195.1
2-Jun	207.3	197.5	113.6	197.6	197.6
3-Jun	207.6	195.8	95.0	195.9	195.9
4-Jun	207.6	200.0	133.3	200.1	200.1
5-Jun	207.5	199.0	125.8	199.0	199.0
6-Jun	207.3	200.5	140.1	200.5	200.5
7-Jun	207.0	196.6	108.3	196.5	196.6
8-Jun	207.0	196.3	104.1	196.2	196.3
9-Jun	206.9	193.9	83.7	193.8	194.0
10-Jun	207.2	193.3	79.6	193.1	193.3
11-Jun	207.5	193.7	77.4	193.6	193.7
12-Jun	207.5	194.3	80.8	194.3	194.4
13-Jun	207.4	195.0	83.4	195.1	195.1
14-Jun	207.6	194.6	79.9	194.6	194.7
15-Jun	207.4	194.9	79.5	194.8	194.8
16-Jun	207.4	195.1	82.3	195.0	195.1
17-Jun	207.3	195.3	87.4	195.3	195.5
18-Jun	207.0	194.7	81.3	194.6	194.9
19-Jun	206.9	194.2	80.0	194.2	194.5
20-Jun	207.0	194.6	86.9	194.7	195.1
21-Jun	207.4	194.9	84.4	194.8	195.0
22-Jun	207.9	196.5	82.9	196.3	196.4
23-Jun	207.9	198.4	85.9	198.5	198.5
24-Jun	207.9	199.3	90.2	199.3	199.5
25-Jun	207.4	196.8	92.4	196.9	197.2
26-Jun	206.5	195.7	90.1	195.9	196.4
27-Jun	207.0	197.5	92.2	197.5	197.9
28-Jun	207.0	197.1	86.5	197.0	197.4
29-Jun	206.9	198.2	91.4	198.1	198.6
30-Jun	206.8	197.4	88.7	197.3	197.8
Average	**207.3**	**196.2**	**92.7**	**196.2**	**196.4**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 7

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jun	145.8	189.2	211.9	194.7	190.7	198.3	204.4	210.4
2-Jun	146.0	190.0	212.1	195.2	191.5	198.9	204.4	210.0
3-Jun	146.0	190.1	212.5	195.5	191.5	199.0	204.9	210.4
4-Jun	146.2	190.2	212.5	195.5	191.5	198.9	205.3	210.6
5-Jun	146.1	189.6	212.4	195.4	191.3	199.1	205.4	210.3
6-Jun	146.0	189.7	212.4	195.3	191.2	198.8	204.7	209.8
7-Jun	146.0	189.7	212.1	195.1	191.0	197.8	204.6	209.9
8-Jun	145.9	189.9	212.1	195.0	191.0	196.6	204.7	209.8
9-Jun	145.8	189.4	212.0	195.0	190.8	198.7	204.6	209.7
10-Jun	145.9	190.1	212.1	195.3	191.4	197.7	204.5	209.4
11-Jun	145.8	189.5	212.3	195.4	191.0	196.7	205.1	210.0
12-Jun	146.0	189.9	212.2	195.6	191.3	199.1	204.8	210.2
13-Jun	146.0	190.0	212.2	195.6	191.5	197.4	204.4	210.1
14-Jun	146.0	189.5	212.3	195.5	191.4	197.2	204.6	208.9
15-Jun	145.9	189.4	211.9	195.3	191.2	196.2	203.7	209.2
16-Jun	146.0	189.6	211.7	195.4	191.3	196.9	204.4	208.8
17-Jun	146.0	190.1	210.7	195.4	191.5	197.1	205.1	208.0
18-Jun	145.8	190.0	210.5	195.1	191.4	196.9	204.5	207.4
19-Jun	145.8	190.3	209.9	195.3	191.7	197.3	204.5	207.8
20-Jun	145.9	190.7	210.1	195.4	191.9	197.5	204.7	207.8
21-Jun	145.9	190.9	208.5	195.6	192.3	197.1	204.9	207.7
22-Jun	146.0	191.6	206.9	195.9	192.8	197.0	204.7	207.5
23-Jun	146.0	191.5	207.1	195.9	192.8	197.5	204.7	207.5
24-Jun	146.1	191.6	207.1	196.1	193.0	197.8	204.6	207.7
25-Jun	146.0	191.7	206.9	195.9	192.9	197.4	204.6	207.7
26-Jun	145.8	191.2	206.3	195.4	192.3	196.4	203.7	207.2
27-Jun	145.9	191.2	207.0	195.8	192.4	198.1	204.4	207.9
28-Jun	145.8	191.1	207.0	195.7	192.4	198.2	203.9	207.9
29-Jun	145.8	191.3	206.9	195.8	192.6	198.3	203.4	207.7
30-Jun	145.8	191.4	206.9	195.7	192.5	198.1	203.9	207.7
Average	**145.9**	**190.3**	**210.2**	**195.4**	**191.7**	**197.7**	**204.5**	**208.8**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 8

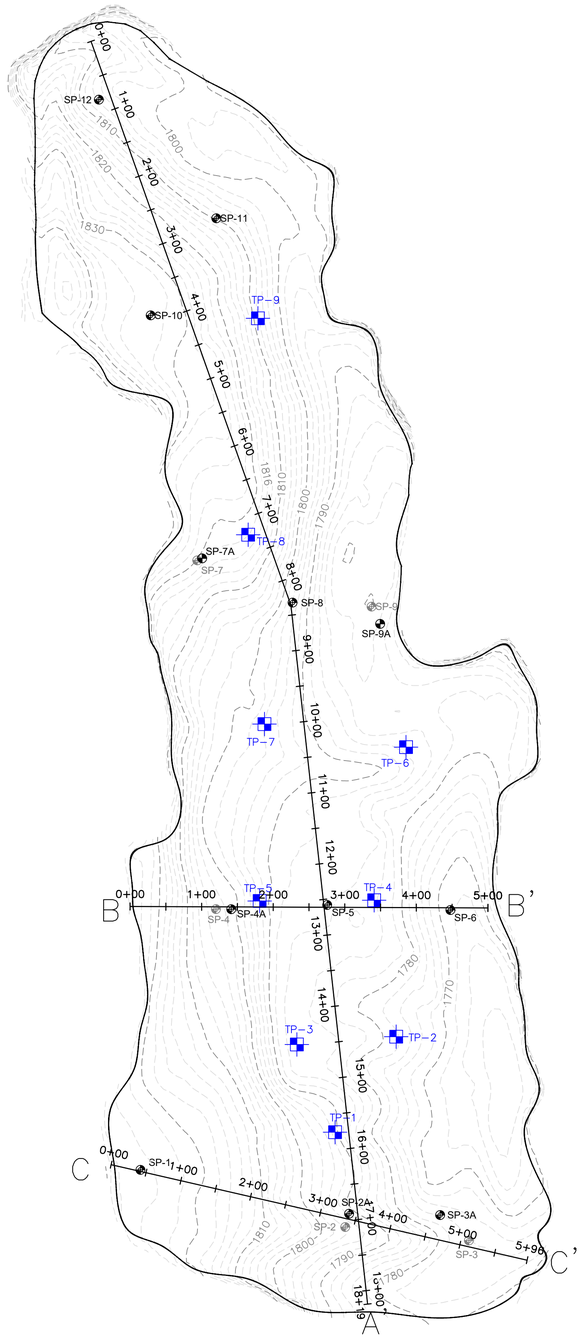
	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jun	188.1	193.4	193.7	196.0	198.7	199.4	189.5	173.4
2-Jun	187.8	193.4	193.6	196.0	198.7	199.3	189.4	173.3
3-Jun	187.6	193.5	193.9	196.3	199.0	199.6	189.7	173.6
4-Jun	188.1	193.7	194.0	196.4	199.1	199.6	189.7	173.6
5-Jun	188.3	193.7	194.0	196.4	199.1	199.6	189.7	173.6
6-Jun	188.2	193.6	193.9	196.3	199.0	199.6	189.6	173.5
7-Jun	188.3	193.5	193.8	196.2	198.9	199.5	189.6	173.5
8-Jun	188.1	193.5	193.7	196.1	198.8	199.5	189.6	173.4
9-Jun	188.1	193.5	193.8	196.1	198.8	199.4	189.5	173.4
10-Jun	187.9	193.5	193.9	196.2	199.0	199.6	189.6	173.6
11-Jun	187.8	193.5	193.9	196.3	199.0	199.5	189.5	173.4
12-Jun	188.2	193.6	193.9	196.3	199.0	199.5	189.5	173.4
13-Jun	188.3	193.7	194.0	196.4	199.2	199.7	189.6	173.5
14-Jun	188.4	193.8	194.1	196.5	199.3	199.8	189.8	173.6
15-Jun	188.2	193.6	193.9	196.3	199.0	199.6	189.5	173.3
16-Jun	188.2	193.6	193.9	196.3	199.1	199.6	189.5	173.4
17-Jun	188.1	193.6	194.0	196.3	199.1	199.7	189.7	173.4
18-Jun	188.0	193.5	193.9	196.2	199.0	199.6	189.4	173.2
19-Jun	188.0	193.5	193.8	196.2	199.0	199.5	189.4	173.1
20-Jun	187.9	193.6	193.9	196.3	199.1	199.6	189.5	173.2
21-Jun	188.0	193.7	194.0	196.4	199.2	199.7	189.5	173.2
22-Jun	188.2	193.8	194.2	196.5	199.3	199.8	189.7	173.3
23-Jun	188.1	193.9	194.2	196.6	199.4	199.8	189.6	173.3
24-Jun	188.2	193.9	194.2	196.6	199.5	199.9	189.7	173.3
25-Jun	188.3	193.9	194.2	196.6	199.4	199.9	189.6	173.2
26-Jun	188.2	193.6	193.9	196.3	199.1	199.6	189.3	172.9
27-Jun	188.2	193.8	194.1	196.5	199.3	199.9	189.6	173.2
28-Jun	188.2	193.7	194.0	196.4	199.3	199.8	189.5	173.1
29-Jun	188.2	193.7	194.0	196.4	199.2	199.8	189.4	173.1
30-Jun	188.3	193.7	194.0	196.4	199.2	199.8	189.4	173.0
Average	**188.1**	**193.6**	**193.9**	**196.3**	**199.1**	**199.6**	**189.5**	**173.3**

Solid Waste Permit 588 Daily Borehole Temperature Averages for Borehole 9

	Depth from Surface							
Date	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
1-Jun	108.4	148.5	147.9	149.0	144.7	132.1	116.0	104.5
2-Jun	108.8	148.7	148.1	149.0	144.7	132.0	115.9	104.5
3-Jun	108.8	148.9	148.4	149.2	144.9	132.2	116.2	104.8
4-Jun	109.0	149.2	148.6	149.4	145.0	132.3	116.4	105.0
5-Jun	108.9	149.1	148.4	149.4	145.1	132.2	116.4	105.0
6-Jun	109.0	149.0	148.3	149.4	145.0	132.1	116.4	104.9
7-Jun	108.9	148.9	148.2	149.3	144.8	132.0	116.2	104.7
8-Jun	108.9	148.9	148.3	149.4	144.9	132.2	116.3	104.8
9-Jun	109.2	149.0	148.4	149.3	144.8	132.4	116.3	104.8
10-Jun	109.3	149.0	148.5	149.3	144.8	132.5	116.3	104.8
11-Jun	109.4	149.2	148.7	149.3	144.9	132.5	116.4	105.0
12-Jun	109.2	149.3	148.7	149.5	144.9	132.6	116.5	105.1
13-Jun	109.5	149.3	148.8	149.5	144.9	132.6	116.5	105.2
14-Jun	109.6	149.4	148.9	149.4	144.9	132.3	116.5	105.1
15-Jun	109.0	149.1	148.6	149.2	144.7	132.0	116.2	104.9
16-Jun	109.2	149.2	148.7	149.4	144.9	132.4	116.4	105.1
17-Jun	109.2	149.3	148.7	149.5	144.9	132.4	116.5	105.2
18-Jun	109.4	149.2	148.7	149.3	144.7	132.3	116.2	105.0
19-Jun	108.7	149.1	148.6	149.3	144.7	132.1	116.2	105.0
20-Jun	109.6	149.4	149.0	149.5	144.9	132.4	116.4	105.3
21-Jun	109.3	149.4	148.9	149.6	145.0	132.5	116.5	105.4
22-Jun	109.8	149.6	149.2	149.6	145.1	132.6	116.7	105.5
23-Jun	109.8	149.7	149.2	149.6	145.2	132.6	116.7	105.5
24-Jun	110.2	149.9	149.4	149.8	145.2	132.8	116.8	105.7
25-Jun	109.9	149.8	149.3	149.8	145.3	132.8	116.8	105.6
26-Jun	109.0	149.3	148.7	149.5	145.0	132.4	116.5	105.3
27-Jun	109.8	149.6	149.1	149.6	145.0	132.5	116.5	105.3
28-Jun	109.6	149.5	149.0	149.4	145.0	132.4	116.4	105.2
29-Jun	109.7	149.6	149.1	149.5	145.0	132.4	116.5	105.3
30-Jun	109.6	149.5	149.1	149.4	145.0	132.4	116.5	105.3
Average	**109.3**	**149.3**	**148.7**	**149.4**	**144.9**	**132.4**	**116.4**	**105.1**

Appendix E

Monthly Topography Analysis



LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE SIDEWALL LOCATION
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- TP-3 TEMPERATURE MONITORING PROBE

NOTES:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON JUNE 25, 2024 BY SCS ENGINEERS.
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: JUNE 2024 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

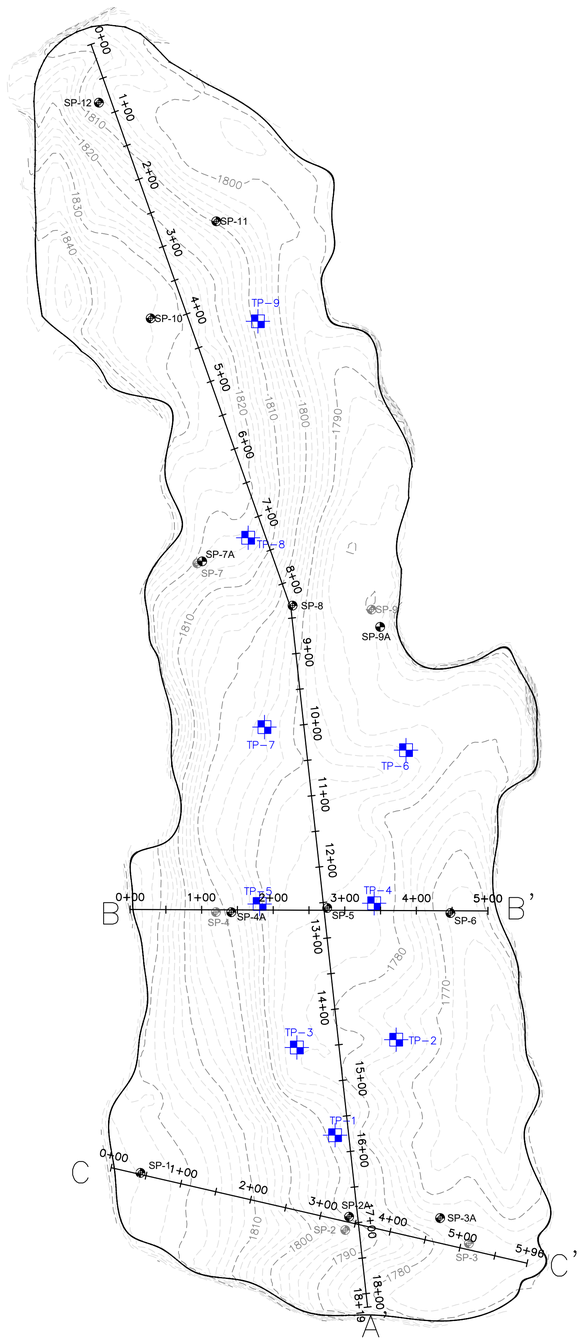
PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A R/W BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

DRAWING NO. 1



LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE SIDEWALL LOCATION
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- TP-3 TEMPERATURE MONITORING PROBE

NOTES:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON MARCH 11, 2025 BY SCS ENGINEERS.
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: MARCH 2025 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15621 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02218208.05
DSN. BY: SRB
DWN. BY: VMM
CHK. BY: CJW
QA/QA RVW BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

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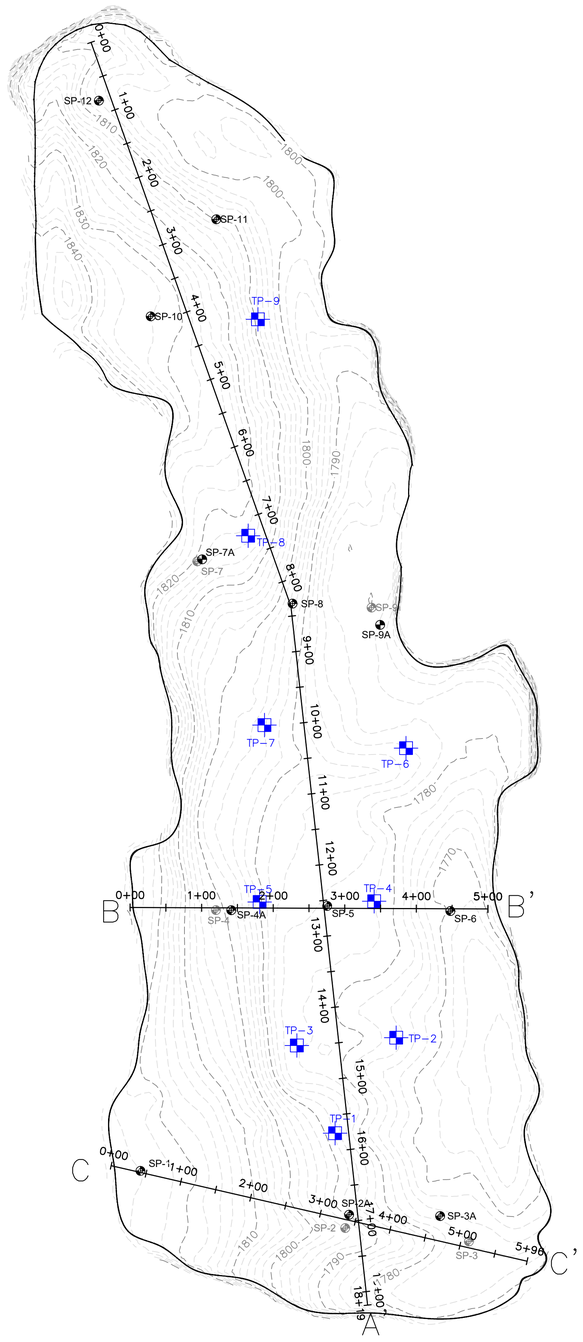

LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE SIDEWALL LOCATION
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- TP-3 TEMPERATURE MONITORING PROBE

NOTES:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON MAY 15, 2025 BY SCS ENGINEERS.
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: MAY 2025 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX (804) 378-7433

PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

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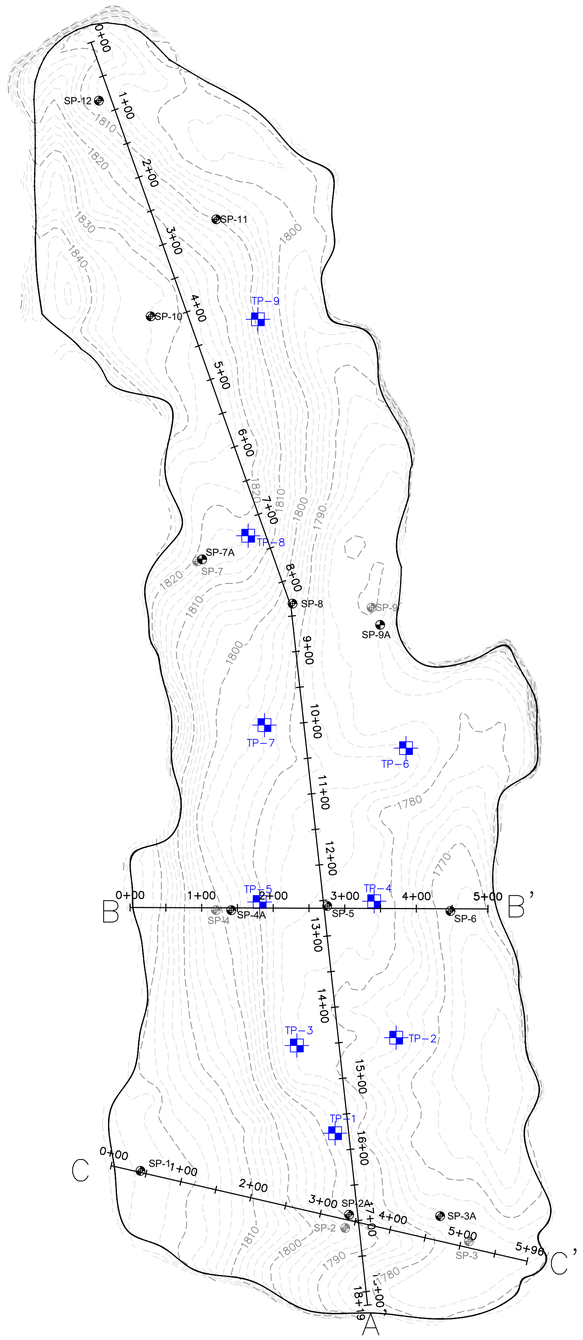


LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE SIDEWALL LOCATION
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- TP-3 TEMPERATURE MONITORING PROBE

NOTES:

1. GRADES SHOWN AS CONTOUR LINES ONLY WITHIN THE PERMIT 588 BOUNDARY REPRESENT THE TOPOGRAPHY CAPTURED ON JUNE 12, 2025 BY SCS ENGINEERS.
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD–83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD–88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: JUNE 2025 LANDFILL TOPOGRAPHY

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

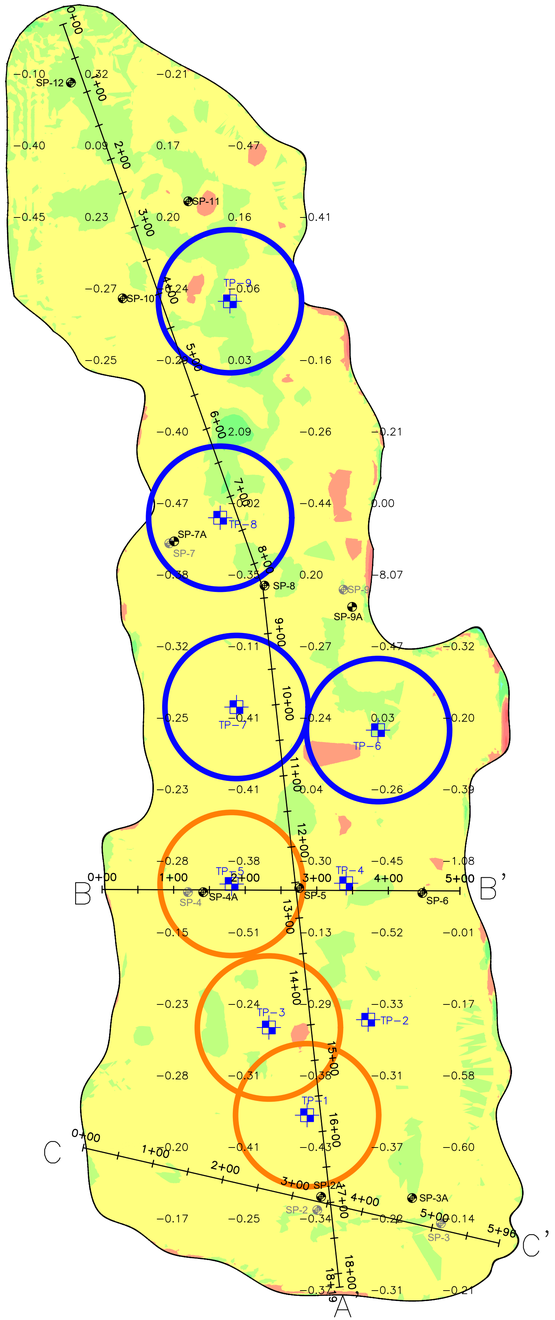
PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

DRAWING NO. 4



LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE WASTE BOUNDARY
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- −0.39 SPOT ELEVATION ON 100' GRID
- TP−8 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH LESS THAN 200 °F
- TP−1 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 200 °F AND 250 °F
- TP−2 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 250 °F AND 300 °F

Volume

Base Surface TOPO – May 15, 2025
Comparison Surface TOPO – June 12, 2025

Cut Volume	7,984	Cu. Yd.
Fill Volume	1,035	Cu. Yd.
Net Cut	6,949	Cu. Yd.

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	−20.000	−10.000	
2	−10.000	−5.000	
3	−5.000	−1.000	
4	−1.000	0.000	
5	0.000	1.000	
6	1.000	5.000	
7	5.000	10.000	
8	10.000	20.000	

NOTES:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON MAY 15, 2025 AND JUNE 12, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (−) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD−83 (2011)
4. THE VERTICAL DATUM IS BASED UPON NAVD−88.

100 50 0 100 200
SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: JUNE VOLUME CHANGE MAY 2025 TO JUNE 2025

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP
DATE: 7/2/2025
SCALE:
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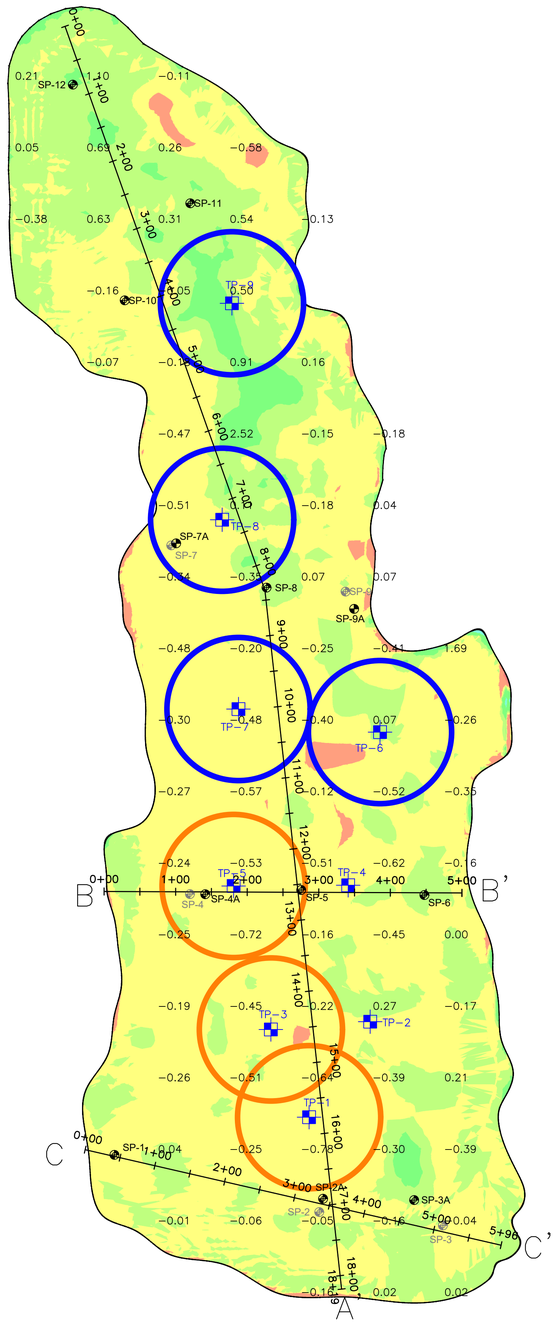


LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE WASTE BOUNDARY
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- −0.39 SPOT ELEVATION ON 100' GRID
- TP−8 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH LESS THAN 200 °F
- TP−1 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 200 °F AND 250 °F
- TP−2 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 250 °F AND 300 °F

Volume

Base Surface	TOPO – March 11, 2025	
Comparison Surface	TOPO – June 12, 2025	
Cut Volume	6,820	Cu. Yd.
Fill Volume	3,284	Cu. Yd.
Net Cut	3,535	Cu. Yd.

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	−20.000	−10.000	
2	−10.000	−5.000	
3	−5.000	−1.000	
4	−1.000	0.000	
5	0.000	1.000	
6	1.000	5.000	
7	5.000	10.000	
8	10.000	20.000	

NOTES:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON MARCH 11, 2025 AND JUNE 12, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (−) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT.
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD−83 (2011).
4. THE VERTICAL DATUM IS BASED UPON NAVD−88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: JUNE VOLUME CHANGE MARCH 2025 TO JUNE 2025

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

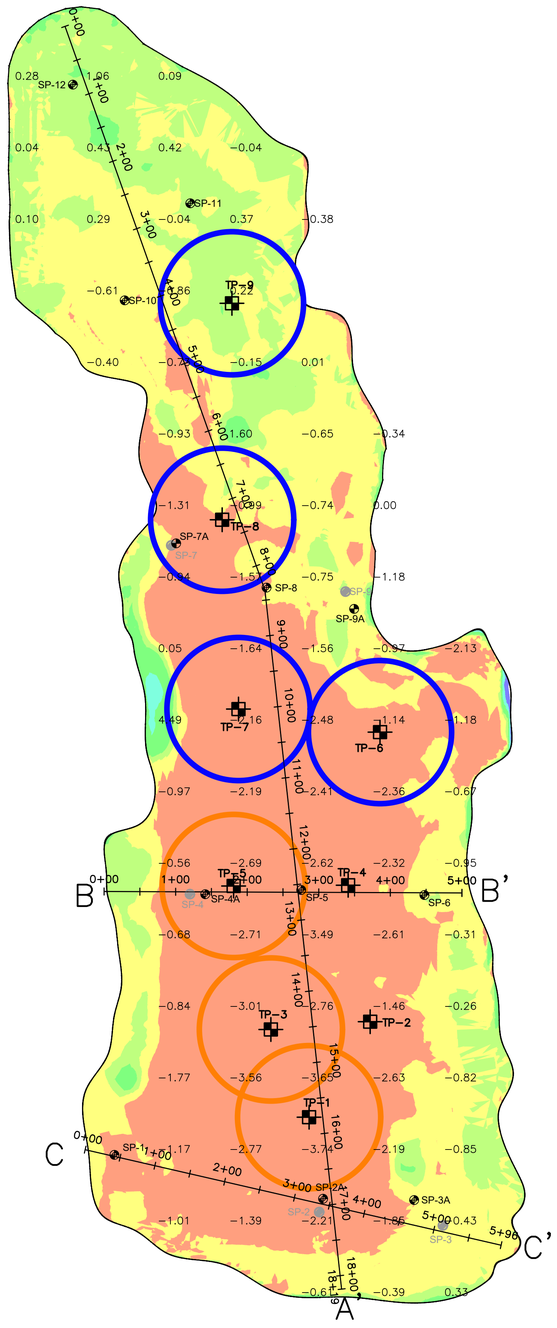
PROJ. NO. 02218208.05
DSN. BY: VMM
DWN. BY: VMM
CHK. BY: C.JW
Q/A REVW BY: C.JW
APP. BY: C.JW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

DRAWING NO. 6



LEGEND

- MAJOR CONTOURS (EVERY 10')
- MINOR CONTOURS (EVERY 2')
- APPROXIMATE WASTE BOUNDARY
- SP-8 SETTLEMENT PLATE
- SP-9 DECOMMISSIONED SETTLEMENT PLATE
- −0.39 SPOT ELEVATION ON 100' GRID
- TP-8 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH LESS THAN 200 °F
- TP-1 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 200 °F AND 250 °F
- TP-2 TEMPERATURE MONITORING PROBE WITH AVERAGE TEMPERATURES AT DEPTH BETWEEN 250 °F AND 300 °F

Volume

Base Surface	TOPO – June 25, 2024	
Comparison Surface	TOPO – June 12, 2025	
Cut Volume	32,763	Cu. Yd.
Fill Volume	2,929	Cu. Yd.
Net Cut	29,834	Cu. Yd.

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	−20.000	−10.000	
2	−10.000	−5.000	
3	−5.000	−1.000	
4	−1.000	0.000	
5	0.000	1.000	
6	1.000	5.000	
7	5.000	10.000	
8	10.000	20.000	

NOTES:

1. THE ELEVATION CHANGES ARE CALCULATED BETWEEN THE AERIAL TOPOGRAPHY DATA CAPTURED ON JUNE 25, 2024 AND JUNE 12, 2025 BY SCS ENGINEERS. POSITIVE VALUES (+) INDICATE AREAS OF FILL AND NEGATIVE VALUES (−) INDICATE AREAS OF CUT (SETTLEMENT). VALUES ARE ROUNDED TO THE NEAREST FOOT
2. ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES, OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR DESIGN, MODIFICATION, OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION.
3. THE HORIZONTAL DATUM IS STATE PLANE VIRGINIA SOUTH ZONE NAD−83 (2011)
4. THE VERTICAL DATUM(S) IS BASED UPON NAVD−88.

100 50 0 100 200

SCALE: 1"=100'

NO.	REVISION	DATE

SHEET TITLE: JUNE VOLUME CHANGE JUNE 2024 TO JUNE 2025

PROJECT TITLE: MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588

CLIENT: CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY
2655 VALLEY DRIVE
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PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
O/A RVW. BY: CJW
APP. BY: CJW

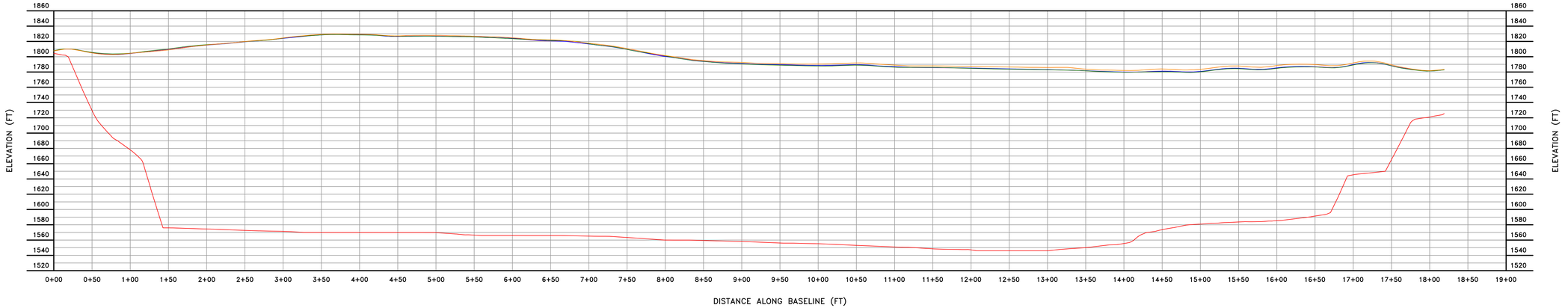
CADD FILE: SURF COMP

DATE: 7/2/2025

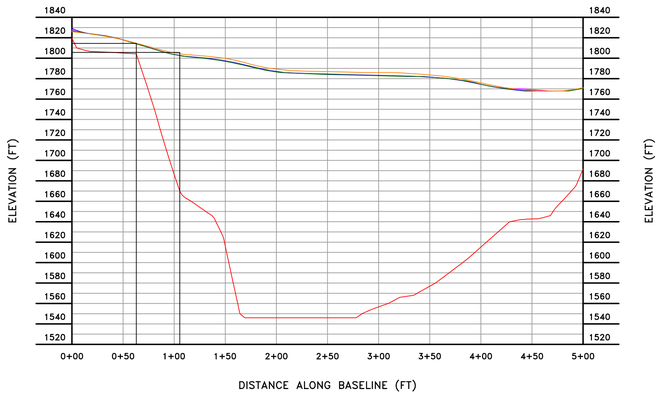
SCALE:

DRAWING NO. 7

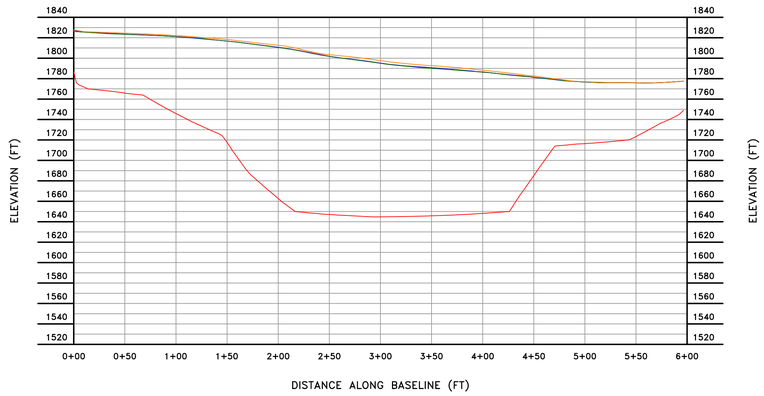
LONGITUDINAL PROFILE A ALIGN



LONGITUDINAL PROFILE B ALIGN



LONGITUDINAL PROFILE C ALIGN



LEGEND

- BOTTOM LINER ELEVATION
- JUNE 2024 TOPO
- MARCH 2025 TOPO
- MAY 2025 TOPO
- JUNE 2025 TOPO

NO.	REVISION	DATE

SHEET TITLE: **PROFILES**

PROJECT TITLE: **MONTHLY TOPOGRAPHY ANALYSIS SOLID WASTE PERMIT #588**

CLIENT: **CITY OF BRISTOL INTEGRATED SOLID WASTE MANAGEMENT FACILITY**
2655 VALLEY DRIVE
BRISTOL, VIRGINIA 24201

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
15521 MIDLOTHIAN TNPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7453

PROJ. NO. 02218208.05
DSN. BY:
DWN. BY: VMM
CHK. BY: CJW
Q/A RVW BY: CJW
APP. BY: CJW

CADD FILE: SURF COMP

DATE: 7/2/2025

SCALE:

DRAWING NO. **8**

Appendix F

Field Logs

Lab Report

Historical LFG-EW Leachate Monitoring Results Summary

Appendix F

Field Logs (June 2025)
Lab Report (May 2025)
Historical LFG-EW Leachate Monitoring Results Summary
Time-Series Plots

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	6/23-6/24													
Personnel	M.Myers & C.Kirby								Checked By:				L. Howard	
Location ID	Date	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/ Photo	Comments
PUMP INSTALLED														
EW-49	6/24/2025	65.00	---	---	79565	79565	96.15	87	---	Y	0	N	Y	Too tall, loose dirt at top
EW-50	6/24/2025	54.00	---	46.67	157797	1577699	77.70	83	---	Y	100	N	Y	4 gas meter went off at 14:00
EW-53	6/23/2025	61.00	50.70	49.82	3294540	3294540	100.70	77	50.00	Y	0	N	Y	
EW-55	6/23/2025	49.00	---	40.07	73387	73387	90.40	90	---	Y	0	N	Y	4 gas meter went off at 15:15
EW-59	6/23/2025	51.00	40.99	53.79	3679152	3639040	73.40	61	32.41	Y	100	N	Y	
EW-60	6/24/2025	56.00	42.62	41.34	245163	191283	81.80	72.5	39.18	Y	90	N	Y	
EW-61	6/24/2025	37.00	72.35	65.24	103848	---	87.80	75	15.45	Y		N	Y	
EW-62	6/24/2025	49.00	81.24	77.88	214599	214599	110.60	91.5	29.36	Y		N	Y	
EW-64	---	---	---	81.68	---	196791	109.00	90	---	---	---	N	---	SOP concerns, instructed not to approach
EW-65	6/24/2025	34.00	46.42	47.19	111452	106332	88.40	70	41.98	Y		N	Y	
EW-66	6/24/2025	45.00	32.91	32.76	38790	35486	---	---	---	Y		N	Y	Needs Label
EW-67	6/24/2025	40.00	40.11	38.74	288744	288744	107.75	76	67.64	Y		N	Y	
EW-68	6/24/2025	24.00	44.79	43.37	2662091	2661124	73.57	60	28.78	Y		N	Y	
EW-78	6/24/2025	45.00	46.21	46.35	77174	54639	57.00	47	10.79	Y		Y	Y	Sampled at 9:20
EW-81	6/24/2025	54.00	105.05	82.23	---	---	151.56	125	46.51	Y		N	Y	
EW-82	6/24/2025	47.00	120.31	121.33	631288	631288	163.26	145	42.95	Y		N	Y	
EW-83	6/24/2025	49.00	81.39	85.25	Too Tall	Too tall	167.04	145	85.65	Y		N	Y	Lost PVC
EW-85	6/24/2025	59.00	61.05	61.79	312919	312919	91.00	78	29.95	Y		N	Y	
EW-93	6/24/2025	48.00	35.82	35.31	1408232	1408232	111.00	---	75.18	Y		N	Y	
EW-96	6/23/2025	88.00	47.97	47.21	Too Tall	Too tall	164.35	145	116.38	Y		N	Y	
EW-98	6/23/2025	52.00	35.05	45.18	1886306	1886306	51.00	46	15.95	Y		N	Y	

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	6/23-6/24													
Personnel	M.Myers & C.Kirby								Checked By:				L. Howard	
Location ID	Date	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/ Photo	Comments
NO PUMP														
EW-54	6/24/2025	54.00	35.12	35.08	---	---	82.70	65	47.58	N	---	N	Y	
EW-56	6/23/2025	40.00	Dry	Dry	--	---	42.71	---	---	N	---	N	Y	
EW-63	6/24/2025	56.00	---	59.12	---	---	117.00	---	---	N	---	N	Y	SOP Concerns, MX4 Went off at 11:50
EW-69	6/24/2025	55.00	93.11	94	---	--	98.00	---	4.89	N	---	N	Y	
EW-70	6/24/2025	20.00	64.64	65.53	--	---	71.00	58	6.36	N	---	N	Y	
EW-73	6/24/2025	42.00	107.42	107.34	--	---	116.00	---	---	N	---	N	Y	
EW-77	---	---	---	125.26	--	---	185.22	---	---	---	---	---	---	SOP concerns, instructed not to approach
EW-79	---	---	---	155.21	--	---	185.64	---	#VALUE!	---	---	---	---	SOP concerns, instructed not to approach
EW-80	6/24/2025	28.00	137.15	137.38	--	---	149.00	---	11.85	N	---	N	Y	
EW-84	6/24/2025	48.00	79.95	80.37	--	---	130.56	---	50.61	N	---	N	Y	
EW-86	6/24/2025	42.00	77.02	77.50	--	---	153.00	---	75.98	N	---	N	Y	
EW-91	6/24/2025	63.00	46.06	47.13	--	---	137.70	---	91.64	N	---	N	Y	
EW-92	6/24/2025	86.00	---	---	--	---	112.99	---	---	N	---	N	Y	Too Tall
EW-95	6/23/2025	---	---	---	--	---	68.00	---	---	N	---	N	Y	Caution tape around well
EW-97	6/23/2025	100.00	---	---	--	---	144.50	---	---	N	---	N	Y	Too Tall
EW-99	6/23/2025	45.00	59.11	59.37	--	---	65.00	---	5.89	N	---	N	Y	

City of Bristol SWP 588 Landfill
Dual Phase LFG-EW Liquid Level Measurement Log

Date	6/23-6/24													
Personnel	M.Myers & C.Kirby								Checked By:				L. Howard	
Location ID	Date	Casing Stickup (ft)	Depth to Liquid (ft)	Prior Depth to Liquid (ft)	Cycle Count	Prior Cycle Count	Well Casing Depth (ft)	Pump Depth (ft)	Liquid Column Thickness	Pump (Y/N)	Pump PSI	Sample Collected	Check/ Photo	Comments
MEASURE CASING STICKUP AND CYCLE COUNTER ONLY														
EW-33B[2]	6/24/2025	59.00	---	DNM	---	---	185.00	140	---	N	---	N	Y	SOP Concerns
EW-36A[2]	6/24/2025	56.00	---	DNM	459999	459999	180.00	135	---	Y	20	N	Y	
EW-52[2]	6/24/2025	41.00	---	DNM	1239186	1239186	98.70	80	---	Y	0	N	Y	
EW-76[2]	6/24/2025	39.00	---	DNM	----	---	127.00	108	---	N	---	N	Y	
EW-87[2]	6/24/2025	45.00	---	DNM	340749	340749	149.57	110	---	Y	0	N	Y	
EW-88[2]	6/24/2025	36.00	61.32	61.88	365317	332881	100.00	61	38.68	Y	100	N	Y	
EW-89[2]	6/24/2025	54.00	---	52.68	229976	41203	84.57	70	---	Y	100	N	Y	
EW-94[1]	6/23/2025	43.00	---	DNM	1642543	1484006	50.00	38	---	Y	80	N	Y	

DNM = Do not measure
1 = Not Measured as gauging equipment has historically become stuck in well.
2 = Not Measured as pump is shut off and intended to be pulled for maintenance/replacement.

Dual Phase LFG-EW Sample Collection Log

Location ID	Sample Date	Sample Time	Temperature (oC)	pH (s.u.)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Observations
EW-33B	---	---	---	---	---	---	---	---	---
EW-36A	---	---	---	---	---	---	---	---	---
EW-49	---	---	---	---	---	---	---	---	---
EW-50	---	---	---	---	---	---	---	---	---
EW-51	---	---	---	---	---	---	---	---	---
EW-52	---	---	---	---	---	---	---	---	---
EW-53	---	---	---	---	---	---	---	---	---
EW-54	---	---	---	---	---	---	---	---	---
EW-55	---	---	---	---	---	---	---	---	---
EW-57	---	---	---	---	---	---	---	---	---
EW-58	---	---	---	---	---	---	---	---	---
EW-59	---	---	---	---	---	---	---	---	---
EW-60	---	---	---	---	---	---	---	---	---
EW-61	---	---	---	---	---	---	---	---	---
EW-62	---	---	---	---	---	---	---	---	---
EW-64	---	---	---	---	---	---	---	---	---
EW-67	---	---	---	---	---	---	---	---	---
EW-68	---	---	---	---	---	---	---	---	---
EW-70	---	---	---	---	---	---	---	---	---
EW-72	---	---	---	---	---	---	---	---	---

Dual Phase LFG-EW Sample Collection Log

Location ID	Sample Date	Sample Time	Temperature (oC)	pH (s.u.)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Observations
EW-73	---	---	---	---	---	---	---	---	---
EW-74	---	---	---	---	---	---	---	---	---
EW-75	---	---	---	---	---	---	---	---	---
EW-76	---	---	---	---	---	---	---	---	---
EW-78	6/24/2025	9:20	44.60	8.12	17555.00	0.50	120.40	27.50	Dark amber color
EW-81	---	---	---	---	---	---	---	---	---
EW-82	---	---	---	---	---	---	---	---	---
EW-83	---	---	---	---	---	---	---	---	---
EW-85	---	---	---	---	---	---	---	---	---
EW-87	---	---	---	---	---	---	---	---	---
EW-88	---	---	---	---	---	---	---	---	---
EW-89	---	---	---	---	---	---	---	---	---
EW-90	---	---	---	---	---	---	---	---	---
EW-91	---	---	---	---	---	---	---	---	---
EW-92	---	---	---	---	---	---	---	---	---
EW-94	---	---	---	---	---	---	---	---	---
EW-96	---	---	---	---	---	---	---	---	---
EW-98	---	---	---	---	---	---	---	---	---
EW-100	---	---	---	---	---	---	---	---	---
Sampler:		M.Myers, C. Kirby				Samples Shipped By: Courier			
Log Checked By:		L. Howard				Laboratory: Enthalpy Analytical			

TNI Accredited
VELAP ID 460021

ENTHALPY ANALYTICAL

1941 Reymet Road ● Richmond, Virginia 23237 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 25E2019

Client Name:	SCS Engineers - Winchester 296 Victory Road Winchester, VA 22602	Date Received:	May 22, 2025 8:00
		Date Issued:	June 6, 2025 18:02
		Project Number:	02218208.15 Task 4
Submitted To:	Jennifer Robb	Purchase Order:	
Client Site I.D.:	LFG-EW Monthly Monitoring		

Enclosed are the results of analyses for samples received by the laboratory on 05/22/2025 08:00. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Sarah R. Endsley
Laboratory Manager

End Notes:
The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

Enthalpy Analytical
1941 Reymet Road
Richmond, VA 23237
(804)-358-8295 - Telephone
(804)-358-8297 - Fax

Analysis Detects Report

Client Name: SCS Engineers - Winchester
Client Site ID: LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM

Laboratory Sample ID: **25E2019-01** **Client Sample ID:** **EW-89**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	01	SW6020B	200		2.5	5.0	5	ug/L
Barium	01	SW6020B	1760		5.00	25.0	5	ug/L
Chromium	01	SW6020B	342		2.00	5.00	5	ug/L
Copper	01	SW6020B	12.3		1.50	5.00	5	ug/L
Lead	01	SW6020B	49		5.0	5.0	5	ug/L
Mercury	01	SW6020B	12.8		1.00	1.00	5	ug/L
Nickel	01	SW6020B	36.95		5.000	5.000	5	ug/L
Zinc	01	SW6020B	1550		12.5	25.0	5	ug/L
2-Butanone (MEK)	01RE1	SW8260D	16700		1500	5000	500	ug/L
Acetone	01RE1	SW8260D	58600		3500	5000	500	ug/L
Benzene	01	SW8260D	222		20.0	50.0	50	ug/L
Ethylbenzene	01	SW8260D	38.0	J	20.0	50.0	50	ug/L
Tetrahydrofuran	01	SW8260D	5700		500	500	50	ug/L
Acetic Acid	01	D3705	6530		71.4	500	1000	mg/L
Butyric Acid	01	D3705	2160		70.3	500	1000	mg/L
Formic Acid	01	D3705	2840		64.5	500	1000	mg/L
i-Pentanoic Acid	01RE1	D3705	282		51.0	250	500	mg/L
Lactic Acid	01	D3705	783		55.7	500	1000	mg/L
n-Hexanoic Acid	01RE1	D3705	459		30.2	250	500	mg/L
n-Pentanoic Acid	01RE1	D3705	355		28.0	250	500	mg/L
Propionic Acid	01	D3705	2560		57.3	500	1000	mg/L
Pyruvic Acid	01RE1	D3705	124	J	44.4	250	500	mg/L
Ammonia as N	01	EPA350.1 R2.0	2360		146	200	2000	mg/L
BOD	01	SM5210B-2016	>42316.44		0.2	2.0	1	mg/L
COD	01	SM5220D-2011	67900		6300	10000	1000	mg/L
Nitrate as N	01	SM4500-NO3F-2019CALC	4700		500	500	5000	mg/L
Nitrate+Nitrite as N	01RE2	SM4500-NO3F-2019	4700		500	500	5000	mg/L

Enthalpy Analytical
1941 Reymet Road
Richmond, VA 23237
(804)-358-8295 - Telephone
(804)-358-8297 - Fax

Analysis Detects Report

Client Name: SCS Engineers - Winchester
Client Site ID: LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM

Laboratory Sample ID: **25E2019-01** **Client Sample ID:** **EW-89**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
TKN as N	01RE1	EPA351.2 R2.0	2800		55.3	301	2	mg/L
Total Recoverable Phenolics	01	SW9065	67.4		3.00	5.00	100	mg/L

Enthalpy Analytical
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Richmond, VA 23237
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Analysis Detects Report

Client Name: SCS Engineers - Winchester
Client Site ID: LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM

Laboratory Sample ID: **25E2019-02** **Client Sample ID:** **EW-88**

Parameter	Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Dil. Factor	Units
Arsenic	02	SW6020B	150		2.5	5.0	5	ug/L
Barium	02	SW6020B	2100		5.00	25.0	5	ug/L
Chromium	02	SW6020B	371		2.00	5.00	5	ug/L
Lead	02	SW6020B	16		5.0	5.0	5	ug/L
Nickel	02	SW6020B	78.97		5.000	5.000	5	ug/L
Zinc	02	SW6020B	1100		12.5	25.0	5	ug/L
2-Butanone (MEK)	02	SW8260D	12500		150	500	50	ug/L
Acetone	02RE1	SW8260D	57300		3500	5000	500	ug/L
Benzene	02	SW8260D	255		20.0	50.0	50	ug/L
Ethylbenzene	02	SW8260D	29.0	J	20.0	50.0	50	ug/L
Tetrahydrofuran	02	SW8260D	4080		500	500	50	ug/L
Acetic Acid	02	D3705	6640		71.4	500	1000	mg/L
Butyric Acid	02	D3705	2220		70.3	500	1000	mg/L
Formic Acid	02	D3705	2940		64.5	500	1000	mg/L
i-Pentanoic Acid	02RE1	D3705	288		51.0	250	500	mg/L
Lactic Acid	02	D3705	963		55.7	500	1000	mg/L
n-Hexanoic Acid	02RE1	D3705	534		30.2	250	500	mg/L
n-Pentanoic Acid	02RE1	D3705	331		28.0	250	500	mg/L
Propionic Acid	02	D3705	2570		57.3	500	1000	mg/L
Pyruvic Acid	02RE1	D3705	132	J	44.4	250	500	mg/L
Ammonia as N	02	EPA350.1 R2.0	2030		146	200	2000	mg/L
BOD	02	SM5210B-2016	>42196.44		0.2	2.0	1	mg/L
COD	02	SM5220D-2011	60700		6300	10000	1000	mg/L
Nitrate as N	02	SM4500-NO3F-2019CALC	4210		500	500	5000	mg/L
Nitrate+Nitrite as N	02RE2	SM4500-NO3F-2019	4210		500	500	5000	mg/L
TKN as N	02	EPA351.2 R2.0	2580		27.7	151	1	mg/L
Total Recoverable Phenolics	02	SW9065	56.0		3.00	5.00	100	mg/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the " Certificate of Analysis".

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Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-89	25E2019-01	Ground Water	05/20/2025 16:16	05/22/2025 08:00
EW-88	25E2019-02	Ground Water	05/20/2025 16:38	05/22/2025 08:00

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Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Client Sample ID: **EW-89** **Laboratory Sample ID:** **25E2019-01**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	01	7440-22-4	SW6020B	05/27/2025 17:00	05/28/2025 11:12	BLOD		0.300	5.00	5	ug/L	AB
Arsenic	01	7440-38-2	SW6020B	05/27/2025 17:00	05/28/2025 11:12	200		2.5	5.0	5	ug/L	AB
Barium	01	7440-39-3	SW6020B	05/27/2025 17:00	05/28/2025 11:12	1760		5.00	25.0	5	ug/L	AB
Cadmium	01	7440-43-9	SW6020B	05/27/2025 17:00	05/28/2025 11:12	BLOD		0.500	5.00	5	ug/L	AB
Chromium	01	7440-47-3	SW6020B	05/27/2025 17:00	05/28/2025 11:12	342		2.00	5.00	5	ug/L	AB
Copper	01	7440-50-8	SW6020B	05/27/2025 17:00	05/28/2025 11:12	12.3		1.50	5.00	5	ug/L	AB
Mercury	01	7439-97-6	SW6020B	05/27/2025 17:00	05/28/2025 11:12	12.8		1.00	1.00	5	ug/L	AB
Nickel	01	7440-02-0	SW6020B	05/27/2025 17:00	05/28/2025 11:12	36.95		5.000	5.000	5	ug/L	AB
Lead	01	7439-92-1	SW6020B	05/27/2025 17:00	05/28/2025 11:12	49		5.0	5.0	5	ug/L	AB
Selenium	01	7782-49-2	SW6020B	05/27/2025 17:00	05/28/2025 11:12	BLOD		4.25	5.00	5	ug/L	AB
Zinc	01	7440-66-6	SW6020B	05/27/2025 17:00	05/28/2025 11:12	1550		12.5	25.0	5	ug/L	AB
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	01RE1	78-93-3	SW8260D	05/27/2025 17:52	05/27/2025 17:52	16700		1500	5000	500	ug/L	DPE
Acetone	01RE1	67-64-1	SW8260D	05/27/2025 17:52	05/27/2025 17:52	58600		3500	5000	500	ug/L	DPE
Benzene	01	71-43-2	SW8260D	05/27/2025 18:15	05/27/2025 18:15	222		20.0	50.0	50	ug/L	DPE
Ethylbenzene	01	100-41-4	SW8260D	05/27/2025 18:15	05/27/2025 18:15	38.0	J	20.0	50.0	50	ug/L	DPE
Toluene	01	108-88-3	SW8260D	05/27/2025 18:15	05/27/2025 18:15	BLOD		25.0	50.0	50	ug/L	DPE
Xylenes, Total	01	1330-20-7	SW8260D	05/27/2025 18:15	05/27/2025 18:15	BLOD		50.0	150	50	ug/L	DPE
Tetrahydrofuran	01	109-99-9	SW8260D	05/27/2025 18:15	05/27/2025 18:15	5700		500	500	50	ug/L	DPE
Surr: 1,2-Dichloroethane-d4 (Surr)	*01*	*114 %*	*70-120*	*05/27/2025 18:15*	*05/27/2025 18:15*							
Surr: 4-Bromofluorobenzene (Surr)	*01*	*104 %*	*75-120*	*05/27/2025 18:15*	*05/27/2025 18:15*							
Surr: Dibromofluoromethane (Surr)	*01*	*111 %*	*70-130*	*05/27/2025 18:15*	*05/27/2025 18:15*							
Surr: Toluene-d8 (Surr)	*01*	*102 %*	*70-130*	*05/27/2025 18:15*	*05/27/2025 18:15*							
Surr: 1,2-Dichloroethane-d4 (Surr)	*01RE1*	*110 %*	*70-120*	*05/27/2025 17:52*	*05/27/2025 17:52*							

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Certificate of Analysis

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Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Client Sample ID: **EW-89** **Laboratory Sample ID:** **25E2019-01**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS												
Surr: 4-Bromofluorobenzene (Surr)	*01RE1*	*103 %*	*75-120*	*05/27/2025 17:52*	*05/27/2025 17:52*							
Surr: Dibromofluoromethane (Surr)	*01RE1*	*112 %*	*70-130*	*05/27/2025 17:52*	*05/27/2025 17:52*							
Surr: Toluene-d8 (Surr)	*01RE1*	*101 %*	*70-130*	*05/27/2025 17:52*	*05/27/2025 17:52*							
Semivolatile Organic Compounds by GCMS												
Anthracene	01	120-12-7	SW8270E	05/23/2025 12:40	05/28/2025 16:15	BLOD		400	800	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*01*	*%*	*5-136*	*05/23/2025 12:40*	*05/28/2025 16:15*							*DS*
Surr: 2-Fluorobiphenyl (Surr)	*01*	*63.2 %*	*9-117*	*05/23/2025 12:40*	*05/28/2025 16:15*							
Surr: 2-Fluorophenol (Surr)	*01*	*21.2 %*	*5-60*	*05/23/2025 12:40*	*05/28/2025 16:15*							
Surr: Nitrobenzene-d5 (Surr)	*01*	*1010 %*	*5-151*	*05/23/2025 12:40*	*05/28/2025 16:15*							*DS*
Surr: Phenol-d5 (Surr)	*01*	*4.00 %*	*5-60*	*05/23/2025 12:40*	*05/28/2025 16:15*							*DS*
Surr: p-Terphenyl-d14 (Surr)	*01*	*55.2 %*	*5-141*	*05/23/2025 12:40*	*05/28/2025 16:15*							

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Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Ion Chromatography Analyses												
Acetic Acid	01	64-19-7	D3705	05/23/2025 14:01	05/23/2025 14:01	6530		71.4	500	1000	mg/L	MGC
Butyric Acid	01	107-92-6	D3705	05/23/2025 14:01	05/23/2025 14:01	2160		70.3	500	1000	mg/L	MGC
Formic Acid	01	64-18-6	D3705	05/23/2025 14:01	05/23/2025 14:01	2840		64.5	500	1000	mg/L	MGC
n-Hexanoic Acid	01RE1	142-62-1	D3705	05/23/2025 16:57	05/23/2025 16:57	459		30.2	250	500	mg/L	MGC
i-Hexanoic Acid	01RE1	646-07-1	D3705	05/23/2025 16:57	05/23/2025 16:57	BLOD		25.4	250	500	mg/L	MGC
Lactic Acid	01	50-21-5	D3705	05/23/2025 14:01	05/23/2025 14:01	783		55.7	500	1000	mg/L	MGC
n-Pentanoic Acid	01RE1	109-52-4	D3705	05/23/2025 16:57	05/23/2025 16:57	355		28.0	250	500	mg/L	MGC
i-Pentanoic Acid	01RE1	503-74-2	D3705	05/23/2025 16:57	05/23/2025 16:57	282		51.0	250	500	mg/L	MGC
Propionic Acid	01	79-09-4	D3705	05/23/2025 14:01	05/23/2025 14:01	2560		57.3	500	1000	mg/L	MGC
Pyruvic Acid	01RE1	127-17-3	D3705	05/23/2025 16:57	05/23/2025 16:57	124	J	44.4	250	500	mg/L	MGC
Wet Chemistry Analysis												
Ammonia as N	01	7664-41-7	EPA350.1 R2.0	06/05/2025 13:37	06/05/2025 13:37	2360		146	200	2000	mg/L	SPH
BOD	01	E1640606	SM5210B-2016	05/22/2025 15:26	05/22/2025 15:26	>42316.44		0.2	2.0	1	mg/L	CET
BOD	01	E1640606	SM5210B-2016	05/22/2025 15:26	05/22/2025 15:26	>42316.44		0.2	2.0	1	mg/L	CET
COD	01	NA	SM5220D-2011	06/02/2025 14:47	06/02/2025 14:47	67900		6300	10000	1000	mg/L	CET
Nitrate as N	01	14797-55-8	SM4500-NO3F-2019CALC	06/06/2025 00:30	06/06/2025 00:30	4700		500	500	5000	mg/L	AAH
Nitrate+Nitrite as N	01RE2	E701177	SM4500-NO3F-2019	06/06/2025 00:30	06/06/2025 00:30	4700		500	500	5000	mg/L	AAH
Nitrite as N	01	14797-65-0	SM4500-NO2B-2021	05/22/2025 11:20	05/22/2025 11:20	BLOD		1.00	5.00	100	mg/L	KJM
Total Recoverable Phenolics	01	NA	SW9065	06/06/2025 16:55	06/06/2025 16:55	67.4		3.00	5.00	100	mg/L	AAL

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Client Sample ID: **EW-89** **Laboratory Sample ID:** **25E2019-01**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
TKN as N	01RE1	E17148461	EPA351.2 R2.0	06/05/2025 09:00	06/05/2025 10:00	2800		55.3	301	2	mg/L	HJB

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Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Client Sample ID: **EW-88** **Laboratory Sample ID:** **25E2019-02**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Metals (Total) by EPA 6000/7000 Series Methods												
Silver	02	7440-22-4	SW6020B	05/27/2025 17:00	05/28/2025 11:15	BLOD		0.300	5.00	5	ug/L	AB
Arsenic	02	7440-38-2	SW6020B	05/27/2025 17:00	05/28/2025 11:15	150		2.5	5.0	5	ug/L	AB
Barium	02	7440-39-3	SW6020B	05/27/2025 17:00	05/28/2025 11:15	2100		5.00	25.0	5	ug/L	AB
Cadmium	02	7440-43-9	SW6020B	05/27/2025 17:00	05/28/2025 11:15	BLOD		0.500	5.00	5	ug/L	AB
Chromium	02	7440-47-3	SW6020B	05/27/2025 17:00	05/28/2025 11:15	371		2.00	5.00	5	ug/L	AB
Copper	02	7440-50-8	SW6020B	05/27/2025 17:00	05/28/2025 11:15	BLOD		1.50	5.00	5	ug/L	AB
Mercury	02	7439-97-6	SW6020B	05/27/2025 17:00	05/28/2025 11:15	BLOD		1.00	1.00	5	ug/L	AB
Nickel	02	7440-02-0	SW6020B	05/27/2025 17:00	05/28/2025 11:15	78.97		5.000	5.000	5	ug/L	AB
Lead	02	7439-92-1	SW6020B	05/27/2025 17:00	05/28/2025 11:15	16		5.0	5.0	5	ug/L	AB
Selenium	02	7782-49-2	SW6020B	05/27/2025 17:00	05/28/2025 11:15	BLOD		4.25	5.00	5	ug/L	AB
Zinc	02	7440-66-6	SW6020B	05/27/2025 17:00	05/28/2025 11:15	1100		12.5	25.0	5	ug/L	AB

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Client Sample ID: **EW-88** **Laboratory Sample ID:** **25E2019-02**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analys
Volatile Organic Compounds by GCMS												
2-Butanone (MEK)	02	78-93-3	SW8260D	05/27/2025 19:00	05/27/2025 19:00	12500		150	500	50	ug/L	DPE
Acetone	02RE1	67-64-1	SW8260D	05/27/2025 18:38	05/27/2025 18:38	57300		3500	5000	500	ug/L	DPE
Benzene	02	71-43-2	SW8260D	05/27/2025 19:00	05/27/2025 19:00	255		20.0	50.0	50	ug/L	DPE
Ethylbenzene	02	100-41-4	SW8260D	05/27/2025 19:00	05/27/2025 19:00	29.0	J	20.0	50.0	50	ug/L	DPE
Toluene	02	108-88-3	SW8260D	05/27/2025 19:00	05/27/2025 19:00	BLOD		25.0	50.0	50	ug/L	DPE
Xylenes, Total	02	1330-20-7	SW8260D	05/27/2025 19:00	05/27/2025 19:00	BLOD		50.0	150	50	ug/L	DPE
Tetrahydrofuran	02	109-99-9	SW8260D	05/27/2025 19:00	05/27/2025 19:00	4080		500	500	50	ug/L	DPE
Surr: 1,2-Dichloroethane-d4 (Surr)	*02*		*110 %*	*70-120*	*05/27/2025 19:00*	*05/27/2025 19:00*						
Surr: 4-Bromofluorobenzene (Surr)	*02*		*104 %*	*75-120*	*05/27/2025 19:00*	*05/27/2025 19:00*						
Surr: Dibromofluoromethane (Surr)	*02*		*113 %*	*70-130*	*05/27/2025 19:00*	*05/27/2025 19:00*						
Surr: Toluene-d8 (Surr)	*02*		*101 %*	*70-130*	*05/27/2025 19:00*	*05/27/2025 19:00*						
Surr: 1,2-Dichloroethane-d4 (Surr)	*02RE1*		*114 %*	*70-120*	*05/27/2025 18:38*	*05/27/2025 18:38*						
Surr: 4-Bromofluorobenzene (Surr)	*02RE1*		*104 %*	*75-120*	*05/27/2025 18:38*	*05/27/2025 18:38*						
Surr: Dibromofluoromethane (Surr)	*02RE1*		*112 %*	*70-130*	*05/27/2025 18:38*	*05/27/2025 18:38*						
Surr: Toluene-d8 (Surr)	*02RE1*		*101 %*	*70-130*	*05/27/2025 18:38*	*05/27/2025 18:38*						
Semivolatile Organic Compounds by GCMS												
Anthracene	02	120-12-7	SW8270E	05/23/2025 12:40	05/28/2025 16:48	BLOD		400	800	20	ug/L	BMS
Surr: 2,4,6-Tribromophenol (Surr)	*02*		*%*	*5-136*	*05/23/2025 12:40*	*05/28/2025 16:48*						*DS*
Surr: 2-Fluorobiphenyl (Surr)	*02*		*60.0 %*	*9-117*	*05/23/2025 12:40*	*05/28/2025 16:48*						
Surr: 2-Fluorophenol (Surr)	*02*		*47.6 %*	*5-60*	*05/23/2025 12:40*	*05/28/2025 16:48*						
Surr: Nitrobenzene-d5 (Surr)	*02*		*855 %*	*5-151*	*05/23/2025 12:40*	*05/28/2025 16:48*						*DS*
Surr: Phenol-d5 (Surr)	*02*		*1.60 %*	*5-60*	*05/23/2025 12:40*	*05/28/2025 16:48*						*DS*
Surr: p-Terphenyl-d14 (Surr)	*02*		*56.0 %*	*5-141*	*05/23/2025 12:40*	*05/28/2025 16:48*						

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Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Client Sample ID: **EW-88** **Laboratory Sample ID:** **25E2019-02**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Ion Chromatography Analyses												
Acetic Acid	02	64-19-7	D3705	05/23/2025 15:29	05/23/2025 15:29	6640		71.4	500	1000	mg/L	MGC
Butyric Acid	02	107-92-6	D3705	05/23/2025 15:29	05/23/2025 15:29	2220		70.3	500	1000	mg/L	MGC
Formic Acid	02	64-18-6	D3705	05/23/2025 15:29	05/23/2025 15:29	2940		64.5	500	1000	mg/L	MGC
n-Hexanoic Acid	02RE1	142-62-1	D3705	05/23/2025 17:26	05/23/2025 17:26	534		30.2	250	500	mg/L	MGC
i-Hexanoic Acid	02RE1	646-07-1	D3705	05/23/2025 17:26	05/23/2025 17:26	BLOD		25.4	250	500	mg/L	MGC
Lactic Acid	02	50-21-5	D3705	05/23/2025 15:29	05/23/2025 15:29	963		55.7	500	1000	mg/L	MGC
n-Pentanoic Acid	02RE1	109-52-4	D3705	05/23/2025 17:26	05/23/2025 17:26	331		28.0	250	500	mg/L	MGC
i-Pentanoic Acid	02RE1	503-74-2	D3705	05/23/2025 17:26	05/23/2025 17:26	288		51.0	250	500	mg/L	MGC
Propionic Acid	02	79-09-4	D3705	05/23/2025 15:29	05/23/2025 15:29	2570		57.3	500	1000	mg/L	MGC
Pyruvic Acid	02RE1	127-17-3	D3705	05/23/2025 17:26	05/23/2025 17:26	132	J	44.4	250	500	mg/L	MGC
Wet Chemistry Analysis												
Ammonia as N	02	7664-41-7	EPA350.1 R2.0	06/05/2025 13:39	06/05/2025 13:39	2030		146	200	2000	mg/L	SPH
BOD	02	E1640606	SM5210B-2016	05/22/2025 15:30	05/22/2025 15:30	>42196.44		0.2	2.0	1	mg/L	CET
BOD	02	E1640606	SM5210B-2016	05/22/2025 15:30	05/22/2025 15:30	>42196.44		0.2	2.0	1	mg/L	CET
COD	02	NA	SM5220D-2011	06/02/2025 14:47	06/02/2025 14:47	60700		6300	10000	1000	mg/L	CET
Nitrate as N	02	14797-55-8	SM4500-NO3F-2019CALC	06/06/2025 00:32	06/06/2025 00:32	4210		500	500	5000	mg/L	AAH
Nitrate+Nitrite as N	02RE2	E701177	SM4500-NO3F-2019	06/06/2025 00:32	06/06/2025 00:32	4210		500	500	5000	mg/L	AAH
Nitrite as N	02	14797-65-0	SM4500-NO2B-2021	05/22/2025 11:20	05/22/2025 11:20	BLOD		1.00	5.00	100	mg/L	KJM
Total Recoverable Phenolics	02	NA	SW9065	06/06/2025 16:55	06/06/2025 16:55	56.0		3.00	5.00	100	mg/L	AAL

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Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Client Sample ID: **EW-88** **Laboratory Sample ID:** **25E2019-02**

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
TKN as N	02	E17148461	EPA351.2 R2.0	06/05/2025 09:00	06/05/2025 10:00	2580		27.7	151	1	mg/L	HJB

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Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1298 - EPA200.2R2.8/SW3005A-ICPMS										
Blank (BIE1298-BLK1)				Prepared: 05/27/2025 Analyzed: 05/28/2025						
Mercury	ND	0.200	ug/L							
Arsenic	ND	1.0	ug/L							
Barium	ND	5.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	1.00	ug/L							
Copper	ND	1.00	ug/L							
Lead	ND	1.0	ug/L							
Nickel	ND	1.000	ug/L							
Selenium	ND	1.00	ug/L							
Silver	ND	1.00	ug/L							
Zinc	ND	5.00	ug/L							
LCS (BIE1298-BS1)				Prepared: 05/27/2025 Analyzed: 05/28/2025						
Mercury	1.01	0.200	ug/L	1.00		101	80-120			
Arsenic	50	1.0	ug/L	50.0		100	80-120			
Barium	52.3	5.00	ug/L	50.0		105	80-120			
Cadmium	51.0	1.00	ug/L	50.0		102	80-120			
Chromium	53.2	1.00	ug/L	50.0		106	80-120			
Copper	53.3	1.00	ug/L	50.0		107	80-120			
Lead	53	1.0	ug/L	50.0		106	80-120			
Nickel	53.77	1.000	ug/L	50.0		108	80-120			
Selenium	47.0	1.00	ug/L	50.0		94.0	80-120			
Silver	10.6	1.00	ug/L	10.0		106	80-120			
Zinc	50.3	5.00	ug/L	50.0		101	80-120			
Matrix Spike (BIE1298-MS1)		**Source: 25E2179-01**		Prepared: 05/27/2025 Analyzed: 05/28/2025						

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Metals (Total) by EPA 6000/7000 Series Methods - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1298 - EPA200.2R2.8/SW3005A-ICPMS										
Matrix Spike (BIE1298-MS1)	**Source: 25E2179-01**			Prepared: 05/27/2025 Analyzed: 05/28/2025						
Mercury	1.03	0.200	ug/L	1.00	BLOD	103	70-130			
Arsenic	50	1.0	ug/L	50.0	0.53	98.2	75-125			
Barium	100	5.00	ug/L	50.0	50.3	100	75-125			
Cadmium	49.9	1.00	ug/L	50.0	BLOD	99.9	75-125			
Chromium	53.2	1.00	ug/L	50.0	BLOD	106	75-125			
Copper	50.7	1.00	ug/L	50.0	BLOD	101	75-125			
Lead	50	1.0	ug/L	50.0	BLOD	100	75-125			
Nickel	57.17	1.000	ug/L	50.0	5.368	104	75-125			
Selenium	44.1	1.00	ug/L	50.0	BLOD	88.2	75-125			
Silver	10.5	1.00	ug/L	10.0	BLOD	105	75-125			
Zinc	56.4	5.00	ug/L	50.0	10.1	92.6	75-125			
Matrix Spike Dup (BIE1298-MSD1)	**Source: 25E2179-01**			Prepared: 05/27/2025 Analyzed: 05/28/2025						
Mercury	1.04	0.200	ug/L	1.00	BLOD	104	70-130	0.350	20	
Arsenic	50	1.0	ug/L	50.0	0.53	98.5	75-125	0.257	20	
Barium	101	5.00	ug/L	50.0	50.3	101	75-125	0.240	20	
Cadmium	49.8	1.00	ug/L	50.0	BLOD	99.6	75-125	0.259	20	
Chromium	51.8	1.00	ug/L	50.0	BLOD	104	75-125	2.64	20	
Copper	49.8	1.00	ug/L	50.0	BLOD	99.6	75-125	1.82	20	
Lead	50	1.0	ug/L	50.0	BLOD	99.2	75-125	1.15	20	
Nickel	55.76	1.000	ug/L	50.0	5.368	101	75-125	2.51	20	
Selenium	44.1	1.00	ug/L	50.0	BLOD	88.1	75-125	0.0414	20	
Silver	10.3	1.00	ug/L	10.0	BLOD	103	75-125	1.31	20	
Zinc	59.3	5.00	ug/L	50.0	10.1	98.4	75-125	5.03	20	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Blank (BIE1338-BLK1)				Prepared & Analyzed: 05/27/2025						
2-Butanone (MEK)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Benzene	ND	1.00	ug/L							
Ethylbenzene	ND	1.00	ug/L							
Toluene	ND	1.00	ug/L							
Xylenes, Total	ND	3.00	ug/L							
Surr: 1,2-Dichloroethane-d4 (Surr)	*55.3*		ug/L	*50.0*		*111*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*51.6*		ug/L	*50.0*		*103*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*55.0*		ug/L	*50.0*		*110*	*70-130*			
Surr: Toluene-d8 (Surr)	*50.8*		ug/L	*50.0*		*102*	*70-130*			
LCS (BIE1338-BS1)				Prepared & Analyzed: 05/27/2025						
1,1,1,2-Tetrachloroethane	45.4		ug/L	50.0		90.8	80-130			
1,1,1-Trichloroethane	42.0		ug/L	50.0		83.9	65-130			
1,1,2,2-Tetrachloroethane	52.2		ug/L	50.0		104	65-130			
1,1,2-Trichloroethane	46.4		ug/L	50.0		92.8	75-125			
1,1-Dichloroethane	42.5		ug/L	50.0		85.1	70-135			
1,1-Dichloroethylene	39.8		ug/L	50.0		79.7	70-130			
1,1-Dichloropropene	43.2		ug/L	50.0		86.4	75-135			
1,2,3-Trichlorobenzene	41.5		ug/L	50.0		82.9	55-140			
1,2,3-Trichloropropane	53.3		ug/L	50.0		107	75-125			
1,2,4-Trichlorobenzene	42.4		ug/L	50.0		84.8	65-135			
1,2,4-Trimethylbenzene	43.8		ug/L	50.0		87.6	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	50.5		ug/L	50.0		101	50-130			
1,2-Dibromoethane (EDB)	47.7		ug/L	50.0		95.3	80-120			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
LCS (BIE1338-BS1)				Prepared & Analyzed: 05/27/2025						
1,2-Dichlorobenzene	45.3		ug/L	50.0		90.6	70-120			
1,2-Dichloroethane	43.0		ug/L	50.0		86.1	70-130			
1,2-Dichloropropane	43.9		ug/L	50.0		87.7	75-125			
1,3,5-Trimethylbenzene	42.5		ug/L	50.0		85.0	75-125			
1,3-Dichlorobenzene	44.2		ug/L	50.0		88.4	75-125			
1,3-Dichloropropane	46.9		ug/L	50.0		93.8	75-125			
1,4-Dichlorobenzene	45.1		ug/L	50.0		90.2	75-125			
2,2-Dichloropropane	44.0		ug/L	50.0		88.1	70-135			
2-Butanone (MEK)	49.6		ug/L	50.0		99.3	30-150			
2-Chlorotoluene	39.3		ug/L	50.0		78.6	75-125			
2-Hexanone (MBK)	53.6		ug/L	50.0		107	55-130			
4-Chlorotoluene	40.8		ug/L	50.0		81.6	75-130			
4-Isopropyltoluene	47.4		ug/L	50.0		94.8	75-130			
4-Methyl-2-pentanone (MIBK)	49.8		ug/L	50.0		99.7	60-135			
Acetone	40.8		ug/L	50.0		81.5	40-140			
Benzene	42.7		ug/L	50.0		85.4	80-120			
Bromobenzene	45.8		ug/L	50.0		91.6	75-125			
Bromochloromethane	46.9		ug/L	50.0		93.7	65-130			
Bromodichloromethane	44.9		ug/L	50.0		89.8	75-120			
Bromoform	48.3		ug/L	50.0		96.6	70-130			
Bromomethane	45.2		ug/L	50.0		90.3	30-145			
Carbon disulfide	48.0		ug/L	50.0		96.1	35-160			
Carbon tetrachloride	41.3		ug/L	50.0		82.6	65-140			
Chlorobenzene	43.4		ug/L	50.0		86.7	80-120			
Chloroethane	42.6		ug/L	50.0		85.2	60-135			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
LCS (BIE1338-BS1)				Prepared & Analyzed: 05/27/2025						
Chloroform	42.3		ug/L	50.0		84.6	65-135			
Chloromethane	36.2		ug/L	50.0		72.5	40-125			
cis-1,2-Dichloroethylene	44.5		ug/L	50.0		89.1	70-125			
cis-1,3-Dichloropropene	46.6		ug/L	50.0		93.3	70-130			
Dibromochloromethane	40.7		ug/L	50.0		81.3	60-135			
Dibromomethane	46.2		ug/L	50.0		92.4	75-125			
Dichlorodifluoromethane	36.2		ug/L	50.0		72.3	30-155			
Ethylbenzene	43.3		ug/L	50.0		86.7	75-125			
Hexachlorobutadiene	42.5		ug/L	50.0		84.9	50-140			
Isopropylbenzene	40.6		ug/L	50.0		81.1	75-125			
m+p-Xylenes	85.1		ug/L	100		85.1	75-130			
Methylene chloride	44.3		ug/L	50.0		88.6	55-140			
Methyl-t-butyl ether (MTBE)	49.6		ug/L	50.0		99.3	65-125			
Naphthalene	43.4		ug/L	50.0		86.8	55-140			
n-Butylbenzene	47.1		ug/L	50.0		94.2	70-135			
n-Propylbenzene	40.3		ug/L	50.0		80.6	70-130			
o-Xylene	43.3		ug/L	50.0		86.5	80-120			
sec-Butylbenzene	49.2		ug/L	50.0		98.5	70-125			
Styrene	46.3		ug/L	50.0		92.6	65-135			
tert-Butylbenzene	42.8		ug/L	50.0		85.6	70-130			
Tetrachloroethylene (PCE)	53.7		ug/L	50.0		107	45-150			
Toluene	40.0		ug/L	50.0		79.9	75-120			
trans-1,2-Dichloroethylene	40.6		ug/L	50.0		81.2	60-140			
trans-1,3-Dichloropropene	43.1		ug/L	50.0		86.1	55-140			
Trichloroethylene	41.5		ug/L	50.0		83.1	70-125			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
LCS (BIE1338-BS1)				Prepared & Analyzed: 05/27/2025						
Trichlorofluoromethane	53.6		ug/L	50.0		107	60-145			
Vinyl chloride	43.7		ug/L	50.0		87.5	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*51.8*		ug/L	*50.0*		*104*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*51.4*		ug/L	*50.0*		*103*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*51.2*		ug/L	*50.0*		*102*	*70-130*			
Surr: Toluene-d8 (Surr)	*49.4*		ug/L	*50.0*		*98.8*	*70-130*			
Matrix Spike (BIE1338-MS1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
1,1,1,2-Tetrachloroethane	51.4		ug/L	50.0	BLOD	103	80-130			
1,1,1-Trichloroethane	50.9		ug/L	50.0	BLOD	102	65-130			
1,1,2,2-Tetrachloroethane	56.7		ug/L	50.0	BLOD	113	65-130			
1,1,2-Trichloroethane	52.3		ug/L	50.0	BLOD	105	75-125			
1,1-Dichloroethane	50.5		ug/L	50.0	BLOD	101	70-135			
1,1-Dichloroethylene	48.0		ug/L	50.0	BLOD	96.0	50-145			
1,1-Dichloropropene	52.1		ug/L	50.0	BLOD	104	75-135			
1,2,3-Trichlorobenzene	43.7		ug/L	50.0	BLOD	87.4	55-140			
1,2,3-Trichloropropane	57.5		ug/L	50.0	BLOD	115	75-125			
1,2,4-Trichlorobenzene	44.0		ug/L	50.0	BLOD	87.9	65-135			
1,2,4-Trimethylbenzene	49.4		ug/L	50.0	BLOD	98.7	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	54.1		ug/L	50.0	BLOD	108	50-130			
1,2-Dibromoethane (EDB)	51.9		ug/L	50.0	BLOD	104	80-120			
1,2-Dichlorobenzene	49.8		ug/L	50.0	BLOD	99.5	70-120			
1,2-Dichloroethane	48.0		ug/L	50.0	BLOD	96.1	70-130			
1,2-Dichloropropane	51.4		ug/L	50.0	BLOD	103	75-125			
1,3,5-Trimethylbenzene	47.8		ug/L	50.0	BLOD	95.7	75-124			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Matrix Spike (BIE1338-MS1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
1,3-Dichlorobenzene	50.3		ug/L	50.0	BLOD	101	75-125			
1,3-Dichloropropane	52.5		ug/L	50.0	BLOD	105	75-125			
1,4-Dichlorobenzene	49.5		ug/L	50.0	BLOD	98.9	75-125			
2,2-Dichloropropane	52.5		ug/L	50.0	BLOD	105	70-135			
2-Butanone (MEK)	56.2		ug/L	50.0	BLOD	112	30-150			
2-Chlorotoluene	44.2		ug/L	50.0	BLOD	88.3	75-125			
2-Hexanone (MBK)	56.9		ug/L	50.0	BLOD	114	55-130			
4-Chlorotoluene	46.4		ug/L	50.0	BLOD	92.8	75-130			
4-Isopropyltoluene	53.4		ug/L	50.0	BLOD	107	75-130			
4-Methyl-2-pentanone (MIBK)	59.0		ug/L	50.0	2.36	113	60-135			
Acetone	52.0		ug/L	50.0	10.8	82.5	40-140			
Benzene	49.8		ug/L	50.0	BLOD	99.5	80-120			
Bromobenzene	51.4		ug/L	50.0	BLOD	103	75-125			
Bromochloromethane	52.3		ug/L	50.0	BLOD	105	65-130			
Bromodichloromethane	51.4		ug/L	50.0	BLOD	103	75-136			
Bromoform	51.8		ug/L	50.0	BLOD	104	70-130			
Bromomethane	50.7		ug/L	50.0	BLOD	101	30-145			
Carbon disulfide	47.8		ug/L	50.0	BLOD	94.8	35-160			
Carbon tetrachloride	49.0		ug/L	50.0	BLOD	97.9	65-140			
Chlorobenzene	48.9		ug/L	50.0	BLOD	97.8	80-120			
Chloroethane	53.4		ug/L	50.0	BLOD	107	60-135			
Chloroform	49.5		ug/L	50.0	BLOD	99.1	65-135			
Chloromethane	43.3		ug/L	50.0	BLOD	86.6	40-125			
cis-1,2-Dichloroethylene	51.2		ug/L	50.0	BLOD	102	70-125			
cis-1,3-Dichloropropene	52.8		ug/L	50.0	BLOD	106	47-136			

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Matrix Spike (BIE1338-MS1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
Dibromochloromethane	45.0		ug/L	50.0	BLOD	90.0	60-135			
Dibromomethane	50.2		ug/L	50.0	BLOD	100	75-125			
Dichlorodifluoromethane	43.7		ug/L	50.0	BLOD	87.5	30-155			
Ethylbenzene	50.0		ug/L	50.0	BLOD	100	75-125			
Hexachlorobutadiene	44.0		ug/L	50.0	BLOD	88.0	50-140			
Isopropylbenzene	47.0		ug/L	50.0	BLOD	93.9	75-125			
m+p-Xylenes	97.3		ug/L	100	BLOD	97.3	75-130			
Methylene chloride	50.4		ug/L	50.0	BLOD	101	55-140			
Methyl-t-butyl ether (MTBE)	55.7		ug/L	50.0	BLOD	111	65-125			
Naphthalene	44.5		ug/L	50.0	BLOD	89.0	55-140			
n-Butylbenzene	52.7		ug/L	50.0	BLOD	105	70-135			
n-Propylbenzene	44.6		ug/L	50.0	BLOD	89.3	70-130			
o-Xylene	49.6		ug/L	50.0	BLOD	99.3	80-120			
sec-Butylbenzene	55.7		ug/L	50.0	BLOD	111	70-125			
Styrene	52.1		ug/L	50.0	BLOD	104	65-135			
tert-Butylbenzene	48.6		ug/L	50.0	BLOD	97.2	70-130			
Tetrachloroethylene (PCE)	62.0		ug/L	50.0	BLOD	124	51-231			
Toluene	47.0		ug/L	50.0	BLOD	93.4	75-120			
trans-1,2-Dichloroethylene	48.1		ug/L	50.0	BLOD	96.2	60-140			
trans-1,3-Dichloropropene	48.2		ug/L	50.0	BLOD	96.4	55-140			
Trichloroethylene	48.6		ug/L	50.0	BLOD	97.3	70-125			
Trichlorofluoromethane	64.4		ug/L	50.0	BLOD	129	60-145			
Vinyl chloride	52.7		ug/L	50.0	BLOD	105	50-145			
Surr: 1,2-Dichloroethane-d4 (Surr)	*53.7*		ug/L	*50.0*		*107*	*70-120*			

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Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Matrix Spike (BIE1338-MS1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
Surr: 4-Bromofluorobenzene (Surr)	*50.9*		ug/L	*50.0*		*102*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*51.4*		ug/L	*50.0*		*103*	*70-130*			
Surr: Toluene-d8 (Surr)	*50.0*		ug/L	*50.0*		*99.9*	*70-130*			
Matrix Spike Dup (BIE1338-MSD1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
1,1,1,2-Tetrachloroethane	50.5		ug/L	50.0	BLOD	101	80-130	1.77	30	
1,1,1-Trichloroethane	49.2		ug/L	50.0	BLOD	98.4	65-130	3.44	30	
1,1,2,2-Tetrachloroethane	58.8		ug/L	50.0	BLOD	118	65-130	3.64	30	
1,1,2-Trichloroethane	53.2		ug/L	50.0	BLOD	106	75-125	1.57	30	
1,1-Dichloroethane	48.9		ug/L	50.0	BLOD	97.9	70-135	3.12	30	
1,1-Dichloroethylene	45.8		ug/L	50.0	BLOD	91.7	50-145	4.65	30	
1,1-Dichloropropene	51.0		ug/L	50.0	BLOD	102	75-135	2.17	30	
1,2,3-Trichlorobenzene	42.7		ug/L	50.0	BLOD	85.4	55-140	2.29	30	
1,2,3-Trichloropropane	59.7		ug/L	50.0	BLOD	119	75-125	3.75	30	
1,2,4-Trichlorobenzene	44.1		ug/L	50.0	BLOD	88.3	65-135	0.409	30	
1,2,4-Trimethylbenzene	48.3		ug/L	50.0	BLOD	96.6	75-130	2.15	30	
1,2-Dibromo-3-chloropropane (DBCP)	56.4		ug/L	50.0	BLOD	113	50-130	4.07	30	
1,2-Dibromoethane (EDB)	52.1		ug/L	50.0	BLOD	104	80-120	0.269	30	
1,2-Dichlorobenzene	49.5		ug/L	50.0	BLOD	99.0	70-120	0.463	30	
1,2-Dichloroethane	48.7		ug/L	50.0	BLOD	97.5	70-130	1.47	30	
1,2-Dichloropropane	49.3		ug/L	50.0	BLOD	98.6	75-125	4.15	30	
1,3,5-Trimethylbenzene	46.8		ug/L	50.0	BLOD	93.6	75-124	2.18	30	
1,3-Dichlorobenzene	48.5		ug/L	50.0	BLOD	97.0	75-125	3.58	30	
1,3-Dichloropropane	53.4		ug/L	50.0	BLOD	107	75-125	1.62	30	
1,4-Dichlorobenzene	48.8		ug/L	50.0	BLOD	97.7	75-125	1.26	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Matrix Spike Dup (BIE1338-MSD1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
2,2-Dichloropropane	51.2		ug/L	50.0	BLOD	102	70-135	2.49	30	
2-Butanone (MEK)	65.3		ug/L	50.0	BLOD	131	30-150	15.1	30	
2-Chlorotoluene	43.2		ug/L	50.0	BLOD	86.3	75-125	2.24	30	
2-Hexanone (MBK)	67.0		ug/L	50.0	BLOD	134	55-130	16.4	30	*M*
4-Chlorotoluene	44.7		ug/L	50.0	BLOD	89.4	75-130	3.75	30	
4-Isopropyltoluene	51.6		ug/L	50.0	BLOD	103	75-130	3.33	30	
4-Methyl-2-pentanone (MIBK)	66.7		ug/L	50.0	2.36	129	60-135	12.3	30	
Acetone	57.9		ug/L	50.0	10.8	94.2	40-140	10.6	30	
Benzene	48.3		ug/L	50.0	BLOD	96.7	80-120	2.92	30	
Bromobenzene	50.2		ug/L	50.0	BLOD	100	75-125	2.36	30	
Bromochloromethane	52.9		ug/L	50.0	BLOD	106	65-130	1.08	30	
Bromodichloromethane	50.7		ug/L	50.0	BLOD	101	75-136	1.43	30	
Bromoform	51.8		ug/L	50.0	BLOD	104	70-130	0.0579	30	
Bromomethane	50.2		ug/L	50.0	BLOD	100	30-145	0.971	30	
Carbon disulfide	49.3		ug/L	50.0	BLOD	98.0	35-160	3.25	30	
Carbon tetrachloride	47.4		ug/L	50.0	BLOD	94.8	65-140	3.18	30	
Chlorobenzene	47.9		ug/L	50.0	BLOD	95.8	80-120	2.15	30	
Chloroethane	47.8		ug/L	50.0	BLOD	95.5	60-135	11.2	30	
Chloroform	48.1		ug/L	50.0	BLOD	96.2	65-135	2.95	30	
Chloromethane	40.7		ug/L	50.0	BLOD	81.5	40-125	6.07	30	
cis-1,2-Dichloroethylene	50.1		ug/L	50.0	BLOD	100	70-125	2.29	30	
cis-1,3-Dichloropropene	52.3		ug/L	50.0	BLOD	105	47-136	0.876	30	
Dibromochloromethane	45.6		ug/L	50.0	BLOD	91.1	60-135	1.30	30	
Dibromomethane	51.6		ug/L	50.0	BLOD	103	75-125	2.81	30	
Dichlorodifluoromethane	41.6		ug/L	50.0	BLOD	83.2	30-155	5.06	30	

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Volatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1338 - SW5030B-MS										
Matrix Spike Dup (BIE1338-MSD1)	**Source: 25E2280-01**			Prepared & Analyzed: 05/27/2025						
Ethylbenzene	48.3		ug/L	50.0	BLOD	96.5	75-125	3.58	30	
Hexachlorobutadiene	43.0		ug/L	50.0	BLOD	86.1	50-140	2.23	30	
Isopropylbenzene	45.0		ug/L	50.0	BLOD	89.9	75-125	4.35	30	
m+p-Xylenes	94.7		ug/L	100	BLOD	94.7	75-130	2.69	30	
Methylene chloride	48.4		ug/L	50.0	BLOD	96.9	55-140	3.89	30	
Methyl-t-butyl ether (MTBE)	57.2		ug/L	50.0	BLOD	114	65-125	2.57	30	
Naphthalene	45.9		ug/L	50.0	BLOD	91.7	55-140	3.06	30	
n-Butylbenzene	51.2		ug/L	50.0	BLOD	102	70-135	2.85	30	
n-Propylbenzene	43.4		ug/L	50.0	BLOD	86.7	70-130	2.91	30	
o-Xylene	47.7		ug/L	50.0	BLOD	95.5	80-120	3.90	30	
sec-Butylbenzene	54.9		ug/L	50.0	BLOD	110	70-125	1.50	30	
Styrene	50.7		ug/L	50.0	BLOD	101	65-135	2.70	30	
tert-Butylbenzene	46.6		ug/L	50.0	BLOD	93.2	70-130	4.24	30	
Tetrachloroethylene (PCE)	60.1		ug/L	50.0	BLOD	120	51-231	3.24	30	
Toluene	46.0		ug/L	50.0	BLOD	91.3	75-120	2.22	30	
trans-1,2-Dichloroethylene	45.6		ug/L	50.0	BLOD	91.3	60-140	5.27	30	
trans-1,3-Dichloropropene	47.7		ug/L	50.0	BLOD	95.4	55-140	1.02	30	
Trichloroethylene	47.1		ug/L	50.0	BLOD	94.2	70-125	3.18	30	
Trichlorofluoromethane	61.1		ug/L	50.0	BLOD	122	60-145	5.25	30	
Vinyl chloride	51.5		ug/L	50.0	BLOD	103	50-145	2.34	30	
Surr: 1,2-Dichloroethane-d4 (Surr)	*53.3*		ug/L	*50.0*		*107*	*70-120*			
Surr: 4-Bromofluorobenzene (Surr)	*51.2*		ug/L	*50.0*		*102*	*75-120*			
Surr: Dibromofluoromethane (Surr)	*53.4*		ug/L	*50.0*		*107*	*70-130*			
Surr: Toluene-d8 (Surr)	*50.2*		ug/L	*50.0*		*100*	*70-130*			

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1226 - SW3510C/EPA600-MS										
Blank (BIE1226-BLK1)				Prepared: 05/23/2025 Analyzed: 05/27/2025						
Anthracene	ND	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	*64.6*		ug/L	*100*		*64.6*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*24.9*		ug/L	*50.0*		*49.8*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*32.3*		ug/L	*100*		*32.3*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*28.1*		ug/L	*50.0*		*56.2*	*5-151*			
Surr: Phenol-d5 (Surr)	*21.8*		ug/L	*100*		*21.8*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*35.5*		ug/L	*50.0*		*71.0*	*5-141*			
LCS (BIE1226-BS1)				Prepared: 05/23/2025 Analyzed: 05/27/2025						
1,2,4-Trichlorobenzene	27.8	10.0	ug/L	50.0		55.5	57-130			*L*
1,2-Dichlorobenzene	24.1	10.0	ug/L	50.0		48.1	22-115			
1,3-Dichlorobenzene	22.6	10.0	ug/L	50.0		45.3	22-112			
1,4-Dichlorobenzene	22.1	10.0	ug/L	50.0		44.2	13-112			
2,4,6-Trichlorophenol	28.5	10.0	ug/L	50.0		57.0	52-129			
2,4-Dichlorophenol	32.2	10.0	ug/L	50.0		64.4	53-122			
2,4-Dimethylphenol	29.1	5.00	ug/L	50.0		58.3	42-120			
2,4-Dinitrophenol	45.0	50.0	ug/L	50.0		90.1	48-127			
2,4-Dinitrotoluene	39.9	10.0	ug/L	50.0		79.9	10-173			
2,6-Dinitrotoluene	36.1	10.0	ug/L	50.0		72.2	68-137			
2-Chloronaphthalene	27.7	10.0	ug/L	50.0		55.4	65-120			*L*
2-Chlorophenol	29.7	10.0	ug/L	50.0		59.5	36-120			
2-Nitrophenol	38.6	10.0	ug/L	50.0		77.3	45-167			
3,3'-Dichlorobenzidine	21.4	10.0	ug/L	50.0		42.7	10-213			
4,6-Dinitro-2-methylphenol	51.5	50.0	ug/L	50.0		103	53-130			
4-Bromophenyl phenyl ether	29.4	10.0	ug/L	50.0		58.9	65-120			*L*

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1226 - SW3510C/EPA600-MS										
LCS (BIE1226-BS1)				Prepared: 05/23/2025 Analyzed: 05/27/2025						
4-Chlorophenyl phenyl ether	29.1	10.0	ug/L	50.0		58.3	38-145			
4-Nitrophenol	11.7	50.0	ug/L	50.0		23.3	13-129			
Acenaphthene	29.5	10.0	ug/L	50.0		59.1	60-132			*L*
Acenaphthylene	31.3	10.0	ug/L	50.0		62.6	54-126			
Acetophenone	29.8	20.0	ug/L	50.0		59.6	0-200			
Anthracene	29.1	10.0	ug/L	50.0		58.1	43-120			
Benzo (a) anthracene	32.4	10.0	ug/L	50.0		64.9	42-133			
Benzo (a) pyrene	35.2	10.0	ug/L	50.0		70.3	32-148			
Benzo (b) fluoranthene	36.4	10.0	ug/L	50.0		72.9	42-140			
Benzo (g,h,i) perylene	35.4	10.0	ug/L	50.0		70.8	10-195			
Benzo (k) fluoranthene	28.7	10.0	ug/L	50.0		57.4	25-146			
bis (2-Chloroethoxy) methane	32.0	10.0	ug/L	50.0		64.0	49-165			
bis (2-Chloroethyl) ether	32.6	10.0	ug/L	50.0		65.2	43-126			
2,2'-Oxybis (1-chloropropane)	31.7	10.0	ug/L	50.0		63.4	63-139			
bis (2-Ethylhexyl) phthalate	42.0	10.0	ug/L	50.0		83.9	29-137			
Butyl benzyl phthalate	46.8	10.0	ug/L	50.0		93.7	10-140			
Chrysene	31.5	10.0	ug/L	50.0		63.0	44-140			
Dibenz (a,h) anthracene	36.5	10.0	ug/L	50.0		73.1	10-200			
Diethyl phthalate	32.5	10.0	ug/L	50.0		64.9	10-120			
Dimethyl phthalate	32.6	10.0	ug/L	50.0		65.1	10-120			
Di-n-butyl phthalate	30.4	10.0	ug/L	50.0		60.8	10-120			
Di-n-octyl phthalate	40.6	10.0	ug/L	50.0		81.2	19-132			
Fluoranthene	28.9	10.0	ug/L	50.0		57.8	43-121			
Fluorene	29.8	10.0	ug/L	50.0		59.7	70-120			*L*
Hexachlorobenzene	29.1	2.50	ug/L	50.0		58.2	10-142			

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Semivolatile Organic Compounds by GCMS - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1226 - SW3510C/EPA600-MS										
LCS (BIE1226-BS1)				Prepared: 05/23/2025 Analyzed: 05/27/2025						
Hexachlorobutadiene	27.5	10.0	ug/L	50.0		55.0	38-120			
Hexachlorocyclopentadiene	26.1	10.0	ug/L	50.0		52.2	10-76			
Hexachloroethane	23.7	10.0	ug/L	50.0		47.4	55-120			*L*
Indeno (1,2,3-cd) pyrene	32.9	10.0	ug/L	50.0		65.7	10-151			
Isophorone	24.2	10.0	ug/L	50.0		48.4	47-180			
Naphthalene	23.4	5.00	ug/L	50.0		46.9	36-120			
Nitrobenzene	33.4	10.0	ug/L	50.0		66.9	54-158			
n-Nitrosodimethylamine	20.5	10.0	ug/L	50.0		40.9	10-85			
n-Nitrosodi-n-propylamine	26.2	10.0	ug/L	50.0		52.4	14-198			
n-Nitrosodiphenylamine	24.8	10.0	ug/L	50.0		49.6	12-97			
p-Chloro-m-cresol	32.2	10.0	ug/L	50.0		64.3	10-142			
Pentachloronitrobenzene (quintozene)	ND	10.0	ug/L				0-200			
Pentachlorophenol	29.6	20.0	ug/L	50.0		59.1	38-152			
Phenanthrene	31.7	10.0	ug/L	50.0		63.4	65-120			*L*
Phenol	13.8	10.0	ug/L	50.5		27.4	17-120			
Pyrene	39.7	10.0	ug/L	50.0		79.3	70-120			
Pyridine	28.8	10.0	ug/L	50.0		57.6	10-103			
Surr: 2,4,6-Tribromophenol (Surr)	*62.9*		ug/L	*100*		*62.9*	*5-136*			
Surr: 2-Fluorobiphenyl (Surr)	*27.6*		ug/L	*50.0*		*55.1*	*9-117*			
Surr: 2-Fluorophenol (Surr)	*39.0*		ug/L	*100*		*39.0*	*5-60*			
Surr: Nitrobenzene-d5 (Surr)	*33.6*		ug/L	*50.0*		*67.3*	*5-151*			
Surr: Phenol-d5 (Surr)	*24.9*		ug/L	*100*		*24.9*	*5-60*			
Surr: p-Terphenyl-d14 (Surr)	*33.9*		ug/L	*50.0*		*67.7*	*5-141*			

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Ion Chromatography Analyses - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1224 - No Prep IC										
Blank (BIE1224-BLK1)				Prepared & Analyzed: 05/23/2025						
Acetic Acid	ND	0.5	mg/L							
Butyric Acid	ND	0.5	mg/L							
Formic Acid	ND	0.5	mg/L							
n-Hexanoic Acid	ND	0.5	mg/L							
i-Hexanoic Acid	ND	0.5	mg/L							
Lactic Acid	ND	0.5	mg/L							
n-Pentanoic Acid	ND	0.5	mg/L							
i-Pentanoic Acid	ND	0.5	mg/L							
Propionic Acid	ND	0.5	mg/L							
Pyruvic Acid	ND	0.5	mg/L							
LCS (BIE1224-BS1)				Prepared & Analyzed: 05/23/2025						
Acetic Acid	5.2		mg/L	5.00		104	70-130			
Butyric Acid	4.5		mg/L	5.00		89.9	70-130			
Formic Acid	4.6		mg/L	4.99		92.3	70-130			
n-Hexanoic Acid	4.4		mg/L	5.00		87.5	70-130			
i-Hexanoic Acid	4.9		mg/L	5.00		97.9	70-130			
Lactic Acid	5.6		mg/L	5.00		112	70-130			
n-Pentanoic Acid	4.6		mg/L	5.00		92.9	70-130			
i-Pentanoic Acid	4.3		mg/L	5.00		86.6	70-130			
Propionic Acid	4.2		mg/L	5.00		84.6	70-130			
Pyruvic Acid	4.9		mg/L	5.00		97.3	70-130			
Matrix Spike (BIE1224-MS1)	**Source: 25E2019-01**			Prepared & Analyzed: 05/23/2025						
Acetic Acid	10600	500	mg/L	5000	6530	81.1	70-130			
Butyric Acid	7040	500	mg/L	5000	2160	97.7	70-130			

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Ion Chromatography Analyses - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1224 - No Prep IC										
Matrix Spike (BIE1224-MS1)	**Source: 25E2019-01**			Prepared & Analyzed: 05/23/2025						
Formic Acid	7670	500	mg/L	5000	2840	96.5	70-130			
n-Hexanoic Acid	5650	500	mg/L	5000	365	106	70-130			
i-Hexanoic Acid	5980	500	mg/L	5000	BLOD	120	70-130			
Lactic Acid	6050	500	mg/L	5000	783	105	70-130			
n-Pentanoic Acid	5510	500	mg/L	5000	247	105	70-130			
i-Pentanoic Acid	4930	500	mg/L	5000	275	93.1	70-130			
Propionic Acid	7090	500	mg/L	5000	2560	90.5	70-130			
Pyruvic Acid	5000	500	mg/L	5000	142	97.1	70-130			
Matrix Spike Dup (BIE1224-MSD1)	**Source: 25E2019-01**			Prepared & Analyzed: 05/23/2025						
Acetic Acid	11000	500	mg/L	5000	6530	88.5	70-130	3.41	20	
Butyric Acid	7480	500	mg/L	5000	2160	106	70-130	5.99	20	
Formic Acid	7930	500	mg/L	5000	2840	102	70-130	3.33	20	
n-Hexanoic Acid	5850	500	mg/L	5000	365	110	70-130	3.49	20	
i-Hexanoic Acid	6090	500	mg/L	5000	BLOD	122	70-130	1.77	20	
Lactic Acid	6250	500	mg/L	5000	783	109	70-130	3.20	20	
n-Pentanoic Acid	5760	500	mg/L	5000	247	110	70-130	4.38	20	
i-Pentanoic Acid	5190	500	mg/L	5000	275	98.4	70-130	5.26	20	
Propionic Acid	7310	500	mg/L	5000	2560	95.0	70-130	3.08	20	
Pyruvic Acid	5240	500	mg/L	5000	142	102	70-130	4.79	20	

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Wet Chemistry Analysis - Quality Control

Enthalpy Analytical

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIE1110 - No Prep Wet Chem										
Blank (BIE1110-BLK1)				Prepared & Analyzed: 05/22/2025						
BOD	ND	2.0	mg/L							
LCS (BIE1110-BS1)				Prepared & Analyzed: 05/22/2025						
BOD	206		mg/L	198		104	84.6-115.4			
Duplicate (BIE1110-DUP1)	**Source: 25E1873-03**			Prepared & Analyzed: 05/22/2025						
BOD	4.0	2.0	mg/L		3.9			1.79	20	
Batch BIE1139 - No Prep Wet Chem										
Blank (BIE1139-BLK1)				Prepared & Analyzed: 05/22/2025						
Nitrite as N	ND	0.05	mg/L							
LCS (BIE1139-BS1)				Prepared & Analyzed: 05/22/2025						
Nitrite as N	0.10	0.05	mg/L	0.100		103	80-120			
Matrix Spike (BIE1139-MS1)	**Source: 25E2050-06**			Prepared & Analyzed: 05/22/2025						
Nitrite as N	0.09	0.05	mg/L	0.100	BLOD	90.0	80-120			
Matrix Spike Dup (BIE1139-MSD1)	**Source: 25E2050-06**			Prepared & Analyzed: 05/22/2025						
Nitrite as N	0.09	0.05	mg/L	0.100	BLOD	90.0	80-120	0.00	20	
Batch BIF0049 - No Prep Wet Chem										
Blank (BIF0049-BLK1)				Prepared & Analyzed: 06/02/2025						
COD	ND	10.0	mg/L							

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIF0049 - No Prep Wet Chem										
LCS (BIF0049-BS1)				Prepared & Analyzed: 06/02/2025						
COD	50.1	10.0	mg/L	50.0		100	88-119			
Matrix Spike (BIF0049-MS1)		**Source: 25E2509-04**		Prepared & Analyzed: 06/02/2025						
COD	58.5	10.0	mg/L	50.0	10.3	96.4	72.4-130			
Matrix Spike Dup (BIF0049-MSD1)		**Source: 25E2509-04**		Prepared & Analyzed: 06/02/2025						
COD	55.4	10.0	mg/L	50.0	10.3	90.2	72.4-130	5.50	20	
Batch BIF0219 - No Prep Wet Chem										
Blank (BIF0219-BLK1)				Prepared & Analyzed: 06/05/2025						
TKN as N	ND	0.50	mg/L							
LCS (BIF0219-BS1)				Prepared & Analyzed: 06/05/2025						
TKN as N	5.33		mg/L	5.00		107	90-110			
Matrix Spike (BIF0219-MS1)		**Source: 25F0038-01**		Prepared & Analyzed: 06/05/2025						
TKN as N	6.29	0.50	mg/L	5.00	1.08	104	90-110			
Matrix Spike (BIF0219-MS2)		**Source: 25F0038-02**		Prepared & Analyzed: 06/05/2025						
TKN as N	6.70	0.50	mg/L	5.00	1.10	112	90-110			*M*
Matrix Spike Dup (BIF0219-MSD1)		**Source: 25F0038-01**		Prepared & Analyzed: 06/05/2025						
TKN as N	6.40	0.50	mg/L	5.00	1.08	107	90-110	1.83	20	
Matrix Spike Dup (BIF0219-MSD2)		**Source: 25F0038-02**		Prepared & Analyzed: 06/05/2025						
TKN as N	6.41	0.50	mg/L	5.00	1.10	106	90-110	4.41	20	

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIF0260 - No Prep Wet Chem										
Blank (BIF0260-BLK1)				Prepared & Analyzed: 06/05/2025						
Ammonia as N	ND	0.10	mg/L							
LCS (BIF0260-BS1)				Prepared & Analyzed: 06/05/2025						
Ammonia as N	1.04		mg/L	1.00		104	90-110			
Matrix Spike (BIF0260-MS1)	**Source: 25E2050-01**			Prepared & Analyzed: 06/05/2025						
Ammonia as N	0.75	0.10	mg/L	1.00	BLOD	75.4	89.3-131			*M*
Matrix Spike (BIF0260-MS2)	**Source: 25E2050-02**			Prepared & Analyzed: 06/05/2025						
Ammonia as N	0.79	0.10	mg/L	1.00	BLOD	78.7	89.3-131			*M*
Matrix Spike Dup (BIF0260-MSD1)	**Source: 25E2050-01**			Prepared & Analyzed: 06/05/2025						
Ammonia as N	0.76	0.10	mg/L	1.00	BLOD	76.1	89.3-131	0.924	20	*M*
Matrix Spike Dup (BIF0260-MSD2)	**Source: 25E2050-02**			Prepared & Analyzed: 06/05/2025						
Ammonia as N	0.73	0.10	mg/L	1.00	BLOD	72.7	89.3-131	7.93	20	*M*
Batch BIF0297 - No Prep Wet Chem										
Blank (BIF0297-BLK1)				Prepared & Analyzed: 06/05/2025						
Nitrate+Nitrite as N	ND	0.10	mg/L							
LCS (BIF0297-BS1)				Prepared & Analyzed: 06/05/2025						
Nitrate+Nitrite as N	1.04		mg/L	1.00		104	90-110			
Matrix Spike (BIF0297-MS1)	**Source: 25E2050-04**			Prepared & Analyzed: 06/05/2025						
Nitrate+Nitrite as N	0.19	0.10	mg/L	1.00	BLOD	19.4	90-120			*M*

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Wet Chemistry Analysis - Quality Control

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Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BIF0297 - No Prep Wet Chem										
Matrix Spike Dup (BIF0297-MSD1)	**Source: 25E2050-04**			Prepared & Analyzed: 06/05/2025						
Nitrate+Nitrite as N	0.19	0.10	mg/L	1.00	BLOD	19.2	90-120	1.04	20	*M*
Batch BIF0324 - No Prep Wet Chem										
Blank (BIF0324-BLK1)				Prepared & Analyzed: 06/06/2025						
Total Recoverable Phenolics	ND	0.050	mg/L							
LCS (BIF0324-BS1)				Prepared & Analyzed: 06/06/2025						
Total Recoverable Phenolics	0.49	0.050	mg/L	0.510		96.5	80-120			
Matrix Spike (BIF0324-MS1)	**Source: 25E2019-01**			Prepared & Analyzed: 06/06/2025						
Total Recoverable Phenolics	115	5.00	mg/L	50.0	67.4	96.0	70-130			
Matrix Spike Dup (BIF0324-MSD1)	**Source: 25E2019-01**			Prepared & Analyzed: 06/06/2025						
Total Recoverable Phenolics	119	5.00	mg/L	50.0	67.4	104	70-130	3.41	20	

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICPMS**	
25E2019-01	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323
25E2019-02	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Ion Chromatography Analyses			**Preparation Method:**	**No Prep IC**	
25E2019-01	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224
25E2019-01RE1	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224
25E2019-02	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224
25E2019-02RE1	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
25E2019-01	300 mL / 300 mL	SM5210B-2016	BIE1110	SIE1131	
25E2019-02	300 mL / 300 mL	SM5210B-2016	BIE1110	SIE1131	
25E2019-01	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
25E2019-02	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
25E2019-01	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
25E2019-02	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
25E2019-01	0.0830 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
25E2019-01RE1	0.0830 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
25E2019-02	0.0830 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
25E2019-01	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
25E2019-02	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
25E2019-01	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
25E2019-01RE1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
25E2019-01RE2	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
25E2019-02	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
25E2019-02RE1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
25E2019-02RE2	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
25E2019-01	5.00 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192
25E2019-02	5.00 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
25E2019-01	500 mL / 2.00 mL	SW8270E	BIE1226	SIE1247	AD50293
25E2019-02	500 mL / 2.00 mL	SW8270E	BIE1226	SIE1247	AD50293

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
25E2019-01	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
25E2019-01RE1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
25E2019-02	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
25E2019-02RE1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300

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QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 6000/7000 Series Methods			**Preparation Method:**	**EPA200.2R2.8/SW3005A-ICPMS**	
BIE1298-BLK1	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323
BIE1298-BS1	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323
BIE1298-MS1	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323
BIE1298-MSD1	50.0 mL / 50.0 mL	SW6020B	BIE1298	SIE1159	AE50323

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Ion Chromatography Analyses			**Preparation Method:**	**No Prep IC**	
BIE1224-BLK1	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224
BIE1224-BS1	1.00 mL / 1.00 mL	D3705	BIE1224	SIE1171	AE50224
BIE1224-MS1	0.00500 mL / 5.00 mL	D3705	BIE1224	SIE1171	AE50224
BIE1224-MSD1	0.00500 mL / 5.00 mL	D3705	BIE1224	SIE1171	AE50224

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
BIE1110-BLK1	300 mL / 300 mL	SM5210B-2016	BIE1110	SIE1131	
BIE1110-BS1	300 mL / 300 mL	SM5210B-2016	BIE1110	SIE1131	
BIE1110-DUP1	300 mL / 300 mL	SM5210B-2016	BIE1110	SIE1131	
BIE1139-BLK1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
BIE1139-BS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
BIE1139-MS1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
BIE1139-MSD1	25.0 mL / 25.0 mL	SM4500-NO2B-2021	BIE1139	SIE0986	AD50358
BIF0049-BLK1	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
BIF0049-BS1	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
BIF0049-MRL1	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148

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Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis			**Preparation Method:**	**No Prep Wet Chem**	
BIF0049-MS1	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
BIF0049-MSD1	2.00 mL / 2.00 mL	SM5220D-2011	BIF0049	SIF0040	AE50148
BIF0219-BLK1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-BS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-MRL1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-MS1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-MS2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-MSD1	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0219-MSD2	25.0 mL / 25.0 mL	EPA351.2 R2.0	BIF0219	SIF0216	AF50178
BIF0260-BLK1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-BS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-MRL1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-MS1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-MS2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-MSD1	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0260-MSD2	6.00 mL / 6.00 mL	EPA350.1 R2.0	BIF0260	SIF0225	AF50181
BIF0297-BLK1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
BIF0297-BS1	5.00 mL / 5.00 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
BIF0297-MS1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
BIF0297-MSD1	10.0 mL / 10.0 mL	SM4500-NO3F-2019	BIF0297	SIF0246	AF50182
BIF0324-BLK1	5.00 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192
BIF0324-BS1	5.00 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192
BIF0324-MRL1	5.00 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192
BIF0324-MS1	0.0500 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192
BIF0324-MSD1	0.0500 mL / 10.0 mL	SW9065	BIF0324	SIF0270	AF50192

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	

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Semivolatile Organic Compounds by GCMS			**Preparation Method:**	**SW3510C/EPA600-MS**	
BIE1226-BLK1	1000 mL / 1.00 mL	SW8270E	BIE1226	SIE1138	AC50298
BIE1226-BLK2		SW8270E	BIE1226	SIE1233	AD50293
BIE1226-BS1	1000 mL / 1.00 mL	SW8270E	BIE1226	SIE1138	AC50298

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			**Preparation Method:**	**SW5030B-MS**	
BIE1338-BLK1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
BIE1338-BS1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
BIE1338-MS1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300
BIE1338-MSD1	5.00 mL / 5.00 mL	SW8260D	BIE1338	SIE1142	AE50300

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Certificate of Analysis

Client Name: SCS Engineers - Winchester
Client Site I.D.: LFG-EW Monthly Monitoring
Submitted To: Jennifer Robb

Date Issued: 6/6/2025 6:02:23PM
Work Order: 25E2019

Certified Analyses included in this Report

Analyte	Certifications
EPA350.1 R2.0 in Non-Potable Water	
Ammonia as N	VELAP,NCDEQ,PADEP,WVDEP,SCDHEC,TXCEQ
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NCDEQ,WVDEP,SCDHEC,PADEP
SM4500-NO2B-2021 in Non-Potable Water	
Nitrite as N	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
SM4500-NO3F-2019 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
SM5210B-2016 in Non-Potable Water	
BOD	VELAP,NCDEQ,WVDEP
SM5220D-2011 in Non-Potable Water	
COD	VELAP,NCDEQ,PADEP,WVDEP,SCDHEC,TXCEQ
SW6020B in Non-Potable Water	
Mercury	VELAP,NCDEQ,PADEP,WVDEP
Arsenic	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
Barium	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
Cadmium	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
Chromium	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
Copper	VELAP,WVDEP,NCDEQ,SCDHEC,PADEP
Lead	VELAP,WVDEP,SCDHEC,NCDEQ,PADEP
Nickel	VELAP,WVDEP,SCDHEC,NCDEQ,PADEP
Selenium	VELAP,WVDEP,SCDHEC,NCDEQ,PADEP
Silver	VELAP,WVDEP,SCDHEC,NCDEQ,PADEP
Zinc	VELAP,WVDEP,SCDHEC,NCDEQ,PADEP
SW8260D in Non-Potable Water	

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Analyte	Certifications
2-Butanone (MEK)	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Acetone	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Benzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Ethylbenzene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Toluene	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Xylenes, Total	NCDEQ,PADEP,VELAP,WVDEP,TXCEQ
Tetrahydrofuran	VELAP
SW8270E in Non-Potable Water	
Anthracene	NCDEQ,VELAP,PADEP,WVDEP,TXCEQ
SW9065 in Non-Potable Water	
Total Recoverable Phenolics	VELAP,WVDEP,PADEP

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Code	Description	Laboratory ID	Expires
DURSC-NCDEQ	NCDEQ Durham Service Center	703	12/31/2025
DURSC-NCDHHS	NCDHHS Durham Service Center	37918	07/31/2025
MdDOE	Maryland DE Drinking Water	341	12/31/2025
NCDEQ	North Carolina DEQ	495	12/31/2025
NCDHHS	North Carolina Department of Health and Human Services	51714	07/31/2025
PADEP	NELAP-Pennsylvania Certificate #009	68-03503	10/31/2025
SCDHEC	South Carolina Dept of Health and Environmental Control Certificate 93016001	93016	06/14/2025
TXCEQ	Texas Comm on Environmental Quality #TX-C25-00143	T104704576	05/31/2026
VELAP	NELAP-Virginia Certificate #13307	460021	06/14/2025
WVDEP	West Virginia DEP Cert ID: WV-C25-00088	350	11/30/2025

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Qualifiers and Definitions

DS	Surrogate concentration reflects a dilution factor.
J	The reported result is an estimated value.
L	LCS recovery is outside of established acceptance limits
M	Matrix spike recovery is outside established acceptance limits
TextValuea	>42316.44

RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed
LOD	Limit of Detection, same as Method Detection Limit (MDL) as defined by 40 CFR 136 Appendix B
BLOD	Below Limit of Detection, same as Below Method Detection Limit (MDL) as defined by 40 CFR 136 Appendix B
LOQ	Limit of Quantitation
DF	Dilution Factor
DL	Detection Limit, same as MDL as defined by 40 CFR 136 Appendix B
TIC	Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
PCBs, Total	Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

ENTHALPY ANALYTICAL

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(804)358-8297 FAX

CHAIN OF CUSTODY

COMPANY NAME: SCS Engineers	INVOICE TO: City of Bristol, VA	PROJECT NAME/Quote #: City of Bristol Landfill #588
CONTACT: Jennifer Robb	INVOICE CONTACT: Jon Hayes	SITE NAME: LFG-EW Monthly Monitoring
ADDRESS: 296 Victory Road. Winchester, VA	INVOICE ADDRESS: 2655 Valley Drive, Bristol, VA, 24201	PROJECT NUMBER: 02218208.15 Task 4
PHONE #: 703-471-6150	INVOICE PHONE #: 276-645-3788	P.O. #:
EMAIL: jrobb@scsengineers.com	EMAIL: jon.hayes@bristolva.org	Pretreatment Program:

Is sample for compliance reporting? YES NO | Regulatory State: V A | Is sample from a chlorinated supply? YES NO | PWS I.D. #:

SAMPLER NAME (PRINT): Logan Nelson / Laurel Tucker | SAMPLER SIGNATURE: Logan Nelson / Laurel Tucker | Turn Around Time: 10 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE): VOCs (Acetone, Benzene, EB, MEK, THF, Toluene, Xylene) Custom List	Mercury Method 6020	Metals 6010 (Ag, As, Ba, Cd, Cr, Cu, Ni, Pb, Se, Zn)	Phenolics	TKN, Nitrate (Cd), Nitrite	SVOC (Anthracene only)	COD, Ammonia	BOD	VFAs
1) EW-89	X					5/20/25	1616		GW	10	X	X	X	X	X	X	X	X	X
2) EW-86	X					5/20/25	1638		GW	10	X	X	X	X	X	X	X	X	X
3)									GW										
4)									GW										
5)									GW										
6)									GW										
7)									GW										
8)									GW										
9)									GW										
10)									DI										

COMMENTS

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

Note VOC 8260 no HCl

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

271
Observed Temp °C: 1.2
Correction Factor °C: 0.0
Corrected Temp °C: 1.2

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
Logan Nelson	5/21/25/1200	LCN	
RELINQUISHED: LCN	DATE / TIME	RECEIVED:	DATE / TIME
RELINQUISHED:	DATE / TIME	RECEIVED:	5/22/25 0800 DATE / TIME

QC Data Package
Level III ☐
Level IV ☐

LAB USE ONLY Therm ID: _____ COOLER TEMP _____ °C
Custody Seals used and intact? (Y / N) Received on ice? (Y / N)

SCS-W 25E2019
Bristol LFG-EW Monthly Monitor
Recd: 05/22/2025 Due: 06/06/2025

v130325002

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Sample Preservation Log

Order ID 15E2019 Date Performed: 5/23/25 Analyst Performing Check: MJ for MAB

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608/508) PCB DW only			SVOC (525/8270/625)			CrVI * **		Pest/PCB (508) / SVOC(525)			COD					
		pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH	Received Res. Cl		final + or -	Received Res. Cl		final + or -	Received pH	Final pH	pH as Received		Final pH	pH as Received		Final pH	pH as Received		Final pH
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		+	-		+	-				< 2	Other		4	Other			Other	
01	A		6	4																																					
01	D													6	4					6	4																6	4			
02	A		6	4																																					
02	D													6	4					6	4																6	4			

NaOH ID: _____ HNO3 ID: SE02900 CrVI preserved date/time: _____ Analyst Initials: _____

H2SO4 ID: 5C03894 Na2S2O3 ID: _____ Ammonia Buffer Sol'n ID: _____

HCL ID: _____ Na2SO3 ID: _____ 5N NaOH ID: _____

* pH must be adjusted between 9.3 - 9.7

Metals were received with pH = 6 HNO3 was added at 1011 on May 23, 2025, by MAB in the Log-In room to bring pH= <2.

**W.Va only certifies DISS CrVI and not T CrVI as an approved analyte under 40CFR136 for waste water.

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Laboratory Order ID: 25E2019

Sample Conditions Checklist

Samples Received at:	**1.20°C**
How were samples received?	Logistics Courier
Were Custody Seals used?	Yes
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	No
Are all samples received appropriately preserved? Metals (except Hg, B) do not require field preservation, but lab preservation may delay analysis. Field parameters performed by the lab are always received past holding time and will be noted as such.	No

Work Order Comments

The lab received two P250mLH2SO4 containers (one for sample 01 and one for sample 02) for TKN, ammonia, COD, Nitrate-Nitrite with a pH of 6. They were adjusted in the lab to bring it to the required pH of <2.
There were no trip blanks to accompany the VOAC40mL containers.

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Jennifer Robb notified via email. 05/28/25 1909 DLJ

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	**Monitoring Event**	**Concentration**																										
Ammonia as N (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	**1560**	---	**1400**	---	---	**1380**	---	---	---	---	---	---	---	---	---	---	50	50
	December-2022	---	**1700**	---	**2280**	---	---	---	**2110**	---	**1410**	**1310**	---	---	---	---	**1150**	**1780**	---	---	---	---	---	---	---	---	100	100
	January-2023	---	**1520**	---	---	---	---	---	---	**936**	---	---	---	---	---	**1330**	---	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	---	---	---	**2440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1490**	---	---	---	---	---	---	---	---	100	100
	March-2023	---	---	---	---	---	---	---	---	**667**	**1480**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
	April-2023	---	---	---	---	---	---	---	---	**1410**	---	**1220**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
	May-2023	---	**1390**	---	---	---	---	---	---	**1860**	**2380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	June-2023	---	---	---	---	---	---	---	---	---	**2740**	---	**2370**	---	**2170**	---	---	---	---	---	---	---	---	---	---	---	146	200
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	---	---	---	---	---	73.1	100
		---	**1570**	---	---	---	---	---	**2260**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2350**	**310**	146	200
	August-2023	---	---	---	---	---	**1600**	---	**1890**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2140**	**222**	146	200
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1720**	---	---	---	---	---	---	---	73.1	100
		---	---	---	**1250**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	October-2023	---	---	---	---	---	---	**1980**	---	---	---	---	---	---	---	---	---	---	**1730**	---	---	**2890**	---	---	---	---	146	200
	November-2023	---	**1260**	---	**2490**	**1830**	---	**2070**	---	---	---	---	---	---	---	---	---	---	**1800**	---	---	**2590**	---	---	---	---	146	200
		---	---	---	---	---	---	---	---	---	---	---	---	**1170**	---	---	---	---	---	---	---	---	---	---	---	**2080**	183	250
		---	---	---	---	---	---	---	---	---	**2440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	366	500
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1540**	---	---	---	---	---	---	---	73.1	100
		---	---	---	**2900**	---	---	---	---	---	---	---	---	---	---	---	---	**2200**	---	---	---	---	---	---	---	---	146	200
	January-2024	---	---	**2160**	---	---	---	---	---	---	**2400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1610**	146	200
	February-2024	---	---	**1900**	---	**2600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1780**	---	**2380**	---	---	---	146	200
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2280**	---	---	**968**	146	200
	April-2024	---	---	---	**2290**	---	---	---	---	---	---	---	---	**928**	---	---	---	**2140**	**1800**	---	---	---	---	---	---	---	146	200
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**898**	73.1	100
		---	---	---	---	---	---	---	---	---	**2550**	---	---	---	---	---	---	---	**1620**	---	**1950**	**2660**	---	---	---	---	146	200
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1990**	---	**2170**	---	---	---	---	**1850**	146	200
	July-2024	---	---	---	---	---	---	---	---	---	**1860**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	**1950**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	August-2024	---	---	---	---	---	**1110**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2130**	---	---	---	**2550**	---	146	200
	September-2024	---	---	---	---	---	**1440**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	73.1	100
		---	---	---	**2210**	---	---	---	---	---	---	---	---	---	---	---	---	**2290**	---	---	---	---	---	---	---	---	146	200
	October-2024	**343**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1490**	---	---	---	---	---	---	73.1	100
		---	**1370**	---	**2180**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	November-2024	**934**	**1370**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	146	200
	December-2024	---	---	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1560**	146	200
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.68**	---	---	---	---	---	0.005	0.01
	February-2025	---	**1300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1400**	---	---	---	---	---	73.1	100
		---	---	---	---	---	---	---	---	---	---	---	**1160**	---	---	---	---	---	---	---	---	---	---	---	---	---	199	199
	March-2025	---	**1240**	---	---	---	---	---	---	---	---	**1480**	---	---	---	---	---	**2110**	---	---	---	---	---	---	---	---	146	200
	April-2025	---	---	---	---	---	---	---	---	---	---	**2440**	---	---	---	---	---	**2580**	---	---	---	---	---	---	---	---	146	200
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2030**	**2360**	---	---	146	200

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Biological Oxygen Demand (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	15700	---	5860	---	---	5140	---	---	---	---	---	---	---	---	---	---	0.2	2
	December-2022	---	6440	---	12500	---	---	---	11400	---	9240	3330	---	---	---	---	8360	6770	---	---	---	---	---	---	---	---	0.2	2
	January-2023	---	9920	---	---	---	---	---	---	999	28100	---	---	---	---	7060	---	---	---	---	---	---	---	---	---	---	0.2	2
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7230	---	---	---	---	---	---	---	---	0.2	2
	March-2023	---	---	---	---	---	---	---	---	1570	9190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	April-2023	---	---	---	---	---	---	---	---	8430	---	2860	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	May-2023	---	7350	---	---	---	---	---	---	11900	35300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	June-2023	---	---	---	---	---	---	---	---	---	20000	---	27400	---	23100	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	July-2023	---	6820	---	---	---	---	---	32900	---	---	---	---	---	---	---	---	---	330	---	---	---	---	---	31800	937	0.2	2
	August-2023	---	---	---	---	---	>33045	---	>33225	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	>32805	506	0.2	2
	September-2023	---	---	---	40185.5	---	---	---	---	---	---	---	---	---	---	---	---	---	659	---	---	---	---	---	---	---	0.2	2
	October-2023	---	---	---	---	---	---	34600	---	---	---	---	---	---	---	---	---	---	690	---	---	37000	---	---	---	---	0.2	2
	November-2023	---	1910	---	30400	27500	---	32015	---	---	29600	---	---	3640	---	---	---	---	480	---	---	32135	---	---	---	21500	0.2	2
	December-2023	---	---	---	>44105	---	---	---	---	---	---	---	---	---	---	---	---	13700	681	---	---	---	---	---	---	---	0.2	2
	January-2024	---	---	26000	---	---	---	---	---	---	17100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14000	0.2	2
	February-2024	---	---	23200	---	26200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21400	---	34300	---	---	---	0.2	2
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40600	---	---	7680	0.2	2
	April-2024	---	---	---	41142	---	---	---	---	---	---	---	---	1210	---	---	---	19600	386	---	---	---	---	---	---	---	0.2	2
	May-2024	---	---	---	---	---	---	---	---	---	25600	---	---	---	---	---	---	---	448	---	22200	33400	---	---	---	7750	0.2	2
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421	---	24400	---	---	---	---	16200	0.2	2
	July-2024	---	---	---	---	---	---	---	---	---	25800	4750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	August-2024	---	---	---	---	---	31000	---	---	---	---	---	---	---	---	---	---	---	---	---	20800	---	---	---	33400	---	0.2	2
	September-2024	---	---	---	ND	---	36100	---	---	---	---	---	---	---	---	---	---	27400	---	---	---	---	---	---	---	---	0.2	2
	October-2024	180	6680	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	36100	---	---	---	---	---	---	0.2	2
	November-2024	4760	7360	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	2
	December-2024	---	---	---	42600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20300	0.2	2
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22900	---	---	---	---	---	0.2	2
	February-2025	---	4420	---	---	---	---	---	---	---	---	---	43418.4	---	---	---	---	---	---	---	16200	---	---	---	---	---	0.2	2
	March-2025	---	3490	---	---	---	---	---	---	---	---	20400	---	---	---	---	---	22000	---	---	---	---	---	---	---	---	0.2	2
	April-2025	---	---	---	---	---	---	---	---	---	---	33900	---	---	---	---	---	24600	---	---	---	---	---	---	---	---	0.2	2
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42196.44	42316.44	---	---	0.2	2

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Chemical Oxygen Demand (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	9790	---	---	10800	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	23500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	December-2022	---	7440	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	13200	8000	---	---	---	---	20300	14100	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	22400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	86800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2023	---	---	---	---	---	---	---	---	3630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	14900	---	---	---	---	---	---	---	---	---	---	---	---	8430	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	---	---	47600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9210	---	---	---	---	---	---	---	---	1000	1000
	March-2023	---	---	---	---	---	---	---	---	1690	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	---	---	---	---	---	---	---	---	10600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	April-2023	---	---	---	---	---	---	---	---	---	---	7370	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	16800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	May-2023	---	7590	---	---	---	---	---	---	18700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	---	---	---	---	---	44700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4000	4000
	June-2023	---	---	---	---	---	---	---	---	---	---	---	44800	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	41300	---	---	---	55000	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2180	500	500
		---	6480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2460	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41000	---	5000	5000
		---	---	---	---	---	---	---	50100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	500	500
		---	---	---	---	---	59000	---	58600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60600	---	5000	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6260	---	---	---	---	---	---	---	1000	1000
		---	---	---	87400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5320	---	---	---	---	---	---	---	500	500
		---	---	---	---	---	---	51000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	63600	---	---	---	---	10000	10000
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4710	---	---	---	---	---	---	---	1000	1000
		---	6200	---	---	---	---	---	---	---	---	---	---	5620	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	---	48100	---	57900	---	---	43700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37600	5000	5000
		---	---	---	77100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	63900	---	---	---	---	10000	10000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4870	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	19900	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	94200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2024	---	---	48600	---	---	---	---	---	---	59800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38200	5000	5000
	February-2024	---	---	---	---	51200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	48900	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	68400	---	---	---	10000	10000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14400	2000	2000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	75500	---	---	---	10000	10000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	3110	---	---	---	---	4200	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	32400	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	79700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4930	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	17700	5000	5000
		---	---	---	---	---	---	---	---	---	48500	---	---	---	---	---	---	---	---	---	43100	70700	---	---	---	---	10000	10000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4520	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51400	---	---	---	---	31300	5000	5000
	July-2024	---	---	---	---	---	---	---	---	---	42400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	98500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	August-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	48100	---	---	---	59500	---	5000	5000
		---	---	---	---	---	56600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26800	---	---	---	---	---	---	---	---	4000	4000
		---	---	---	---	---	55900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	78300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	October-2024	951	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
		---	10700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
		---	---	---	83300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	62000	---	---	---	---	---	---	10000	10000
	November-2024	9540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	8840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2000	2000
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36600	5000	5000
		---	---	---	81500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	36800	---	---	---	---	---	5000	5000
	February-2025	---	3630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23400	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	---	447000	---	---	---	---	---	---	---	---	---	---	---	---	---	100000	100000
	March-2025	---	8700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51500	---	---	---	---	---	---	---	---	5000	5000
		---	---	---	---	---	---	---	---	---	---	74600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	10000
	April-2025	---	---	---	---	---	---	---	---	---	---	47900	---	---	---	---	---	24100	---	---	---	---	---	---	---	---	6300	10000
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60700	67900	---	---	6300	10000

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Nitrate as N (mg/L)	December-2022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	0.2	0.2
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2	0.6
		---	ND	---	ND	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1
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	January-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.35	1.35
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	1.1	1.1
		---	**3.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.1	2.1
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.2	2.2
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.35	1.35
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.04	5.1
	April-2023	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.6	2.6
	May-2023	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1
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	June-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	1.1	5.1
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	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.355**	---	---	---	---	---	---	---	0.15	0.35
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.55	0.75
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	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.15	0.35
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1.5	3.5
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.3	1.1
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.7	1.5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.35	1.35
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	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.15	0.35
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	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	1.1	5.1
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	January-2024	---	---	**2.01**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1.5	5.5
	February-2024	---	---	**9.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	1.5	5.5
		---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.5	7.5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	0.75	1.75
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	0.35	0.35
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	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.15	0.35
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	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.692**	---	---	---	---	---	---	---	0.6	2.6
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	1.5	3.5
	July-2024	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
		---	---	---	---	---	---	---	---	---	**6.66**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	25
	August-2024	---	---	---	---	---	**1.57**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	0.25	1.25
	September-2024	---	---	---	ND	---	**2.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	5	25
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.5
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	November-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	1.25
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	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.5	2.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.5	1.25
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1	5
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	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	2	10
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	1.25
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	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4210**	**4700**	---	---	500	500

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Nitrite as N (mg/L)	December-2022	---	---	---	---	---	---	---	---	---	---	**0.12 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1	0.5
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	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.48 J**	---	---	---	---	---	---	---	---	0.25	1.25
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	5
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	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.2	1
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.25	1.25
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	November-2023	---	**0.06 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.05	0.25
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	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	1	5
	January-2024	---	---	**1.7 J**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1	5
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	1	5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	**0.25 J**	0.25	1.25
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	0.25	0.25
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	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	0.25	1.25
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		---	**1.35 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	2.5
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.5	2.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.25	1.25
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1	5
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	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	2	10
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	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	1	5

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Total Kjeldahl Nitrogen (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	**1290**	---	---	**1470**	---	---	---	---	---	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	**2110**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	125
	December-2022	---	**1510**	---	**3570**	---	---	---	**1790**	---	**1830**	**1490**	---	---	---	---	**1340**	**1940**	---	---	---	---	---	---	---	---	200	500
	January-2023	---	**1840**	---	---	---	---	---	---	**881**	---	---	---	---	---	**1410**	---	---	---	---	---	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	**2970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	---	---	---	16.8	50
	March-2023	---	---	---	---	---	---	---	---	**879**	**1920**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	33.6	100
	April-2023	---	---	---	---	---	---	---	---	**1820**	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16.8	50
	May-2023	---	**1590**	---	---	---	---	---	---	**1950**	**2910**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	June-2023	---	---	---	---	---	---	---	---	---	**3080**	---	---	---	**2750**	---	---	---	---	---	---	---	---	---	---	---	100	250
		---	---	---	---	---	---	---	---	---	---	---	**2650**	---	---	---	---	---	---	---	---	---	---	---	---	---	200	500
	July-2023	---	**1670**	---	---	---	---	---	**2960**	---	---	---	---	---	---	---	---	---	**1670**	---	---	---	---	---	**2720**	**285**	40	100
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**279**	10	25
		---	---	---	---	---	**2240**	---	**2820**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2850**	---	100	250
	September-2023	---	---	---	**3340**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2680**	---	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	**1050**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1320**	---	---	---	---	40	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4630**	---	---	---	---	---	---	---	100	250
	November-2023	---	---	---	---	---	---	**2240**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2120**	80	200
		---	**1440**	---	**3290**	**2630**	---	---	---	---	**2530**	---	---	**1120**	---	---	---	---	**2270**	---	---	**3170**	---	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1880**	---	---	---	---	---	---	---	---	80	200
		---	---	---	**3130**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1890**	---	---	---	---	---	---	---	100	250
	January-2024	---	---	**2450**	---	---	---	---	---	---	**3020**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1810**	100	250
	February-2024	---	---	**2540**	---	**2890**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2470**	---	**2970**	---	---	---	100	250
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	50	125
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	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	---	---	---	---	**1730**	---	---	---	---	---	---	---	40	100
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		---	---	---	**3260**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1140**	40	100
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	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	---	**4750**	100	250
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	July-2024	---	---	---	---	---	---	---	---	---	**2840**	**2680**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	August-2024	---	---	---	---	---	**1980**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1460**	---	---	---	**3150**	---	100	250
	September-2024	---	---	---	---	---	**2090**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	125
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	October-2024	**351**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1870**	---	---	---	---	---	---	40	100
		---	**1360**	---	**2850**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	November-2024	**1070**	**1610**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	December-2024	---	---	---	**2790**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2210**	100	250
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1960**	---	---	---	---	---	40	100
	February-2025	---	---	---	---	---	---	---	---	---	---	---	**0.948**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0398	0.0995
		---	**1190**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1520**	---	---	---	---	---	100	250
	March-2025	---	**1230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
		---	---	---	---	---	---	---	---	---	---	**1920**	---	---	---	---	---	**2700**	---	---	---	---	---	---	---	---	100	250
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2600**	---	---	---	---	---	---	---	---	45.9	250
		---	---	---	---	---	---	---	---	---	---	**2240**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	80	200
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2580**	---	---	---	27.7	151
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2800**	---	---	55.3	301

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Total Recoverable Phenolics (mg/L)	November-2022	---	---	---	---	---	---	---	---	---	---	---	**5.68**	---	---	**3**	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	**28.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
	December-2022	---	---	---	---	---	---	---	---	---	---	**8.94**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	**24.9**	---	**54.6**	---	---	---	**28.3**	---	**32**	---	---	---	---	---	**20.2**	**36**	---	---	---	---	---	---	---	---	1.5	2.5
	January-2023	---	**27.2**	---	---	---	---	---	---	**1.3**	---	---	---	---	---	**20.2**	---	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**56.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.4**	---	---	---	---	---	---	---	---	1.5	2.5
	March-2023	---	---	---	---	---	---	---	---	**0.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.05
		---	---	---	---	---	---	---	---	---	**13.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
	April-2023	---	---	---	---	---	---	---	---	**18.7**	---	**5.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
	May-2023	---	**18.6**	---	---	---	---	---	---	**20**	**50**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	June-2023	---	---	---	---	---	---	---	---	---	**39.1**	---	**45.6**	---	**80.6**	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.7**	---	---	---	---	---	---	---	0.15	0.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.92**	0.3	0.5
		---	**11.6**	---	---	---	---	---	**47.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**37.3**	---	1.5	2.5
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.46**	0.15	0.25
		---	---	---	---	---	**28.6**	---	**31.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**40.4**	---	1.5	2.5
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4.58**	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	**38.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4.13**	---	---	---	---	---	---	---	0.15	0.25
		---	---	---	---	---	---	**37**	---	---	---	---	---	---	---	---	---	---	---	---	---	**38.7**	---	---	---	---	0.6	1
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.65**	---	---	---	---	---	---	---	0.15	0.25
		---	**7.88**	---	---	**36.4**	---	---	---	---	---	---	---	**4.76**	---	---	---	---	---	---	---	---	---	---	---	---	0.6	1
		---	---	---	**38.8**	---	---	**47.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	**47.1**	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**46.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**29.1**	1.5	2.5
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.72**	---	---	---	---	---	---	---	0.06	0.1
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23**	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	**34.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	January-2024	---	---	**38**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.7**	1.5	2.5
		---	---	---	---	---	---	---	---	---	**39.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	February-2024	---	---	**37.3**	---	**42.9**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**50.2**	---	**43.1**	---	---	---	1.5	2.5
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46.6**	---	---	**12.8**	3	5
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**1.68**	---	---	---	---	**1.16**	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	**38.4**	---	---	---	---	---	---	---	---	---	---	---	---	**28.6**	---	---	---	---	---	---	---	---	1.5	2.5
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.06**	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	**36.6**	---	---	---	---	---	---	---	---	---	**33.6**	**51**	---	---	---	---	3	5
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.82**	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23.2**	1.5	2.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**44.8**	---	---	---	---	---	3	5
	July-2024	---	---	---	---	---	---	---	---	---	---	**28.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	**37.8**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	August-2024	---	---	---	---	---	**29.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	**44.2**	---	---	---	**39.2**	---	3	5
	September-2024	---	---	---	**39.6**	---	**31.6**	---	---	---	---	---	---	---	---	---	---	**31.6**	---	---	---	---	---	---	---	---	3	5
	October-2024	**0.376**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.05
		---	**8.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**45.1**	---	---	---	---	---	---	1.5	2.5
		---	---	---	**37.6**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	November-2024	**5.22**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	**10.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**26.4**	1.5	2.5
		---	---	---	**37.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.4**	---	---	---	---	---	3	5
	February-2025	---	**8.15**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20.8**	---	---	---	---	---	1.5	2.5
		---	---	---	---	---	---	---	---	---	---	---	**516**	---	---	---	---	---	---	---	---	---	---	---	---	---	495	495
	March-2025	---	**3.88**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3	0.5
		---	---	---	---	---	---	---	---	---	---	**21.4**	---	---	---	---	---	**25.9**	---	---	---	---	---	---	---	---	0.75	1.25
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**35**	---	---	---	---	---	---	---	---	0.75	1.25
		---	---	---	---	---	---	---	---	---	---	**43**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.5	2.5
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**56**	**67.4**	---	---	3	5

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
SEMI-VOLATILE ORGANIC COMPOUND (ug/L)																												
Anthracene	November-2022	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	46.7	93.5
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93.5	187
	December-2022	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	9.35	9.35
		---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	11.7	11.7
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	January-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	243	485
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	253	505
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		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	187	374
	March-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	51	102
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	117	234
	April-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37.4	74.8
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38.8	77.7
	May-2023	---	ND	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93.5	187
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	467	935
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	485	971
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	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	46.7	93.5
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	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	19.6	39.2
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1000	2000
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	40	80
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	40	80
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	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	50	100
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	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	20	40
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	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	5	10
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	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	ND	10	10
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	80	160
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	20	40
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	100	200
	July-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	80
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	80	160
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	500	1000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	1000	2000
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100	200
		---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	October-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	100
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	200	400
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	100
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	200	400
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400	800
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	100	200
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	200	400
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	4160	4160
	March-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100	200
		---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	400
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	400	800

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
TOTAL METALS (mg/L)																												
Arsenic	November-2022	---	---	---	---	---	---	---	---	---	**0.863**	---	**0.464**	---	---	**1.3**	---	---	---	---	---	---	---	---	---	---	0.02	0.04
	December-2022	---	**1.02**	---	**0.406**	---	---	---	**0.174**	---	**1.69**	**0.49**	---	---	---	---	**0.159**	**0.574**	---	---	---	---	---	---	---	---	0.02	0.04
	January-2023	---	**0.285**	---	---	---	---	---	---	**0.596**	**0.225**	---	---	---	---	**0.846**	---	---	---	---	---	---	---	---	---	---	0.01	0.02
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.29**	---	---	---	---	---	---	---	---	0.005	0.01
	March-2023	---	---	---	---	---	---	---	---	**1.07**	**1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.02
	April-2023	---	---	---	---	---	---	---	---	---	---	**0.11**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.001
		---	---	---	---	---	---	---	---	**0.36**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	May-2023	---	**0.26**	---	---	---	---	---	---	**0.3**	**0.27**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.26**	---	**0.5**	---	**0.14**	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	July-2023	---	**0.23**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.24**	---	---	---	---	---	---	**0.19**	**0.06**	0.0005	0.001
		---	---	---	---	---	---	---	**0.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.15**	0.0025	0.005
		---	---	---	---	---	**0.32**	---	**0.43**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.29**	---	0.005	0.01
	September-2023	---	---	---	**0.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.25**	---	---	---	---	---	---	---	---	0.005	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.24**	---	---	**0.31**	---	---	---	---	---	0.0005	0.001
		---	---	---	---	---	---	**0.36**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.002
	November-2023	---	**0.23**	---	**0.33**	**0.53**	---	**0.43**	---	---	**0.35**	---	---	**0.78**	---	---	---	---	**0.34**	---	---	---	**0.27**	---	---	---	**0.2**	0.003	0.003
	December-2023	---	---	---	**0.4**	---	---	---	---	---	---	---	---	---	---	---	---	**0.26**	---	---	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.24**	---	---	---	---	---	---	---	---	0.001	0.002
	January-2024	---	---	**0.47**	---	---	---	---	---	---	**0.23**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.18**	0.0025	0.005
	February-2024	---	---	**0.68**	---	**0.42**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.33**	---	**0.23**	---	---	---	---	0.002	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.12**	0.001	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.23**	---	---	---	0.0025	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.49**	---	---	---	---	**0.18**	---	---	---	---	---	---	---	0.0005	0.001
		---	---	---	**0.31**	---	---	---	---	---	---	---	---	---	---	---	---	**0.33**	---	---	---	---	---	---	---	---	0.004	0.004
	May-2024	---	---	---	---	---	---	---	---	---	**0.33**	---	---	---	---	---	---	---	**0.2**	---	**0.73**	**0.22**	---	---	---	**0.22**	0.005	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.19**	---	**0.49**	---	---	---	---	**0.14**	0.005	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**300**	**0.095**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
	August-2024	---	---	---	---	---	**0.18**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.49**	---	---	---	---	**0.13**	0.005	0.01
	September-2024	---	---	---	**0.27**	---	**0.15**	---	---	---	---	---	---	---	---	---	---	**0.19**	---	---	---	---	---	---	---	---	0.005	0.01
	October-2024	**0.1**	**0.26**	---	**0.24**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.18**	---	---	---	---	---	---	0.005	0.01
	November-2024	**0.18**	**0.15**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	December-2024	---	---	---	**0.28**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.09**	0.005	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.88**	---	---	---	---	---	0.01	0.05
	February-2025	---	**0.17**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.73**	---	---	---	---	---	0.005	0.01
		---	---	---	---	---	---	---	---	---	---	---	**0.774 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.465	1
	March-2025	---	**0.158**	---	---	---	---	---	---	---	---	**0.344**	---	---	---	---	---	**0.254**	---	---	---	---	---	---	---	---	0.01	0.02
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.246**	---	---	---	---	---	**0.217**	---	---	---	---	---	---	---	---	0.01	0.02
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.15**	**0.2**	---	---	0.0025	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Barium	November-2022	---	---	---	---	---	---	---	---	---	**0.871**	---	**0.485**	---	---	**0.36**	---	---	---	---	---	---	---	---	---	---	0.01	0.02
	December-2022	---	**0.566**	---	**0.803**	---	---	---	**0.978**	---	**0.438**	**0.214**	---	---	---	---	**0.856**	**0.793**	---	---	---	---	---	---	---	---	0.01	0.02
	January-2023	---	**0.643**	---	---	---	---	---	---	**0.683**	**1.92**	---	---	---	---	**0.554**	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.04**	---	---	---	---	---	---	---	---	0.01	0.05
	March-2023	---	---	---	---	---	---	---	---	**0.406**	**0.683**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	April-2023	---	---	---	---	---	---	---	---	**1.21**	---	**0.326**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	May-2023	---	**0.636**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	**1.2**	**1.83**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	June-2023	---	---	---	---	---	---	---	---	---	**1.69**	---	---	---	**1.65**	---	---	---	---	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	---	---	---	**3.01**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.217**	0.001	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.558**	---	---	---	---	---	---	---	0.002	0.01
		---	**0.542**	---	---	---	---	---	**2.28**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.02**	---	0.005	0.025
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.218**	0.005	0.025
		---	---	---	---	---	**1.61**	---	**1.58**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.48**	---	0.01	0.05
	September-2023	---	---	---	**0.72**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.649**	---	---	---	---	---	---	---	0.01	0.05
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.664**	---	---	---	---	---	---	---	0.002	0.01
		---	---	---	---	---	---	**2.56**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.93**	---	---	---	---	0.005	0.025
	November-2023	---	**0.572**	---	**0.81**	**2.28**	---	**2.51**	---	---	**1.96**	---	---	**0.418**	---	---	---	---	**0.67**	---	---	**2.06**	---	---	---	**2.84**	0.01	0.05
	December-2023	---	---	---	**0.68**	---	---	---	---	---	---	---	---	---	---	---	---	**1.36**	---	---	---	---	---	---	---	---	0.005	0.025
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.672**	---	---	---	---	---	---	---	0.002	0.01
	January-2024	---	---	---	---	---	---	---	---	---	**1.92**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.91**	0.005	0.025
		---	---	**3.27**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	February-2024	---	---	**3.03**	---	**4.41**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.65**	---	**0.925**	---	---	---	0.005	0.025
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.03**	0.002	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.54**	---	---	---	0.005	0.025
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.4**	---	---	---	---	**0.634**	---	---	---	---	---	---	---	0.001	0.005
		---	---	---	**1.02**	---	---	---	---	---	---	---	---	---	---	---	---	**2.15**	---	---	---	---	---	---	---	---	0.01	0.05
	May-2024	---	---	---	---	---	---	---	---	---	**1.79**	---	---	---	---	---	---	---	**0.619**	---	**2.8**	**2.06**	---	---	---	**0.872**	0.01	0.05
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.6**	---	**3.44**	---	---	---	---	**1.51**	0.01	0.05
	July-2024	---	---	---	---	---	---	---	---	---	**1.28**	**2.75**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.025
	August-2024	---	---	---	---	---	**1.27**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.39**	---	---	---	---	**0.862**	0.01	0.05
	September-2024	---	---	---	**1.34**	---	**1.33**	---	---	---	---	---	---	---	---	---	---	**3.65**	---	---	---	---	---	---	---	---	0.01	0.05
	October-2024	**0.26**	**0.568**	---	**1.17**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3.33**	---	---	---	---	---	---	0.01	0.05
	November-2024	**0.262**	**0.69**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.05
	December-2024	---	---	---	**2.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.21**	0.01	0.05
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.88**	---	---	---	---	---	0.01	0.05
	February-2025	---	**0.633**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.48**	---	---	---	---	---	0.01	0.05
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.465	0.5
	March-2025	---	**0.516**	---	---	---	---	---	---	---	---	**1.05**	---	---	---	---	---	**2.93**	---	---	---	---	---	---	---	---	0.005	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	**1.96**	---	---	---	---	---	**2.95**	---	---	---	---	---	---	---	---	0.005	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.1**	**1.76**	---	---	0.005	0.025

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Cadmium	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.004	0.008
	December-2022	---	ND	---	**0.0104**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	0.004	0.008
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.002	0.004
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.000297 J**	---	---	---	---	---	---	---	---	0.0001	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.004
	April-2023	---	---	---	---	---	---	---	---	**0.000158 J**	---	**0.000333 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0001	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	July-2023	---	**0.000219 J**	---	---	---	---	---	**0.000156 J**	---	---	---	---	---	---	---	---	---	**0.000186 J**	---	---	---	---	---	ND	ND	0.0001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0005	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.001	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.001	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.000171 J**	---	---	ND	---	---	---	---	0.0001	0.001
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.002
	November-2023	---	ND	---	ND	ND	---	ND	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	ND	---	---	---	ND	0.001	0.003
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	**0.000604 J**	---	---	---	---	---	---	---	---	0.0005	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0002	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0005	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0175**	---	ND	---	---	---	0.0005	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	0.0005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.000204 J**	---	---	---	---	**0.000195 J**	---	---	---	---	---	---	---	0.0001	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.001	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	**0.0483**	ND	---	---	---	ND	0.001	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.0175**	---	---	---	---	ND	0.001	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0005	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00508 J**	---	---	---	**0.00247 J**	---	0.001	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.001	0.01
	October-2024	**0.00117 J**	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.001	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.01
	December-2024	---	---	---	**0.00661 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00304 J**	0.001	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.198**	---	---	---	---	---	0.004	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0101**	---	---	---	---	---	0.001	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.186	0.2
	March-2025	---	ND	---	---	---	---	---	---	---	---	**0.0119**	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.002	0.004
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.0284**	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.002	0.004
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	0.0005	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Chromium	November-2022	---	---	---	---	---	---	---	---	---	**0.208**	---	**0.112**	---	---	**0.354**	---	---	---	---	---	---	---	---	---	---	0.016	0.02
	December-2022	---	**0.503**	---	**1.08**	---	---	---	**1.76**	---	**0.274**	**0.319**	---	---	---	---	**0.499**	**0.822**	---	---	---	---	---	---	---	---	0.016	0.02
	January-2023	---	**0.31**	---	---	---	---	---	---	**0.488**	**0.178**	---	---	---	---	**0.155**	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.277**	---	---	---	---	---	---	---	---	0.004	0.01
	March-2023	---	---	---	---	---	---	---	---	**0.213**	**0.188**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	April-2023	---	---	---	---	---	---	---	---	---	---	**0.142**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.001
		---	---	---	---	---	---	---	---	**0.306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.01
	May-2023	---	**0.422**	---	---	---	---	---	---	**0.281**	**0.237**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.251**	---	**0.191**	---	**0.272**	---	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	July-2023	---	**0.308**	---	---	---	---	---	**0.535**	---	---	---	---	---	---	---	---	---	**0.231**	---	---	---	---	---	**0.215**	**0.0265**	0.0004	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0276**	0.002	0.005
		---	---	---	---	---	**0.606**	---	**0.449**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.259**	---	0.004	0.01
	September-2023	---	---	---	**1.17**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.234**	---	---	---	---	---	---	---	0.004	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.144**	---	---	**0.194**	---	---	---	---	0.0004	0.001
		---	---	---	---	---	---	**0.273**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.002
	November-2023	---	**0.391**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0	0.003
		---	---	---	---	**0.51**	---	---	---	---	---	---	---	---	---	---	---	---	**0.251**	---	---	**0.403**	---	---	---	---	0.003	0.003
		---	---	---	**1.04**	---	---	**0.402**	---	---	**0.246**	---	---	**0.343**	---	---	---	---	---	---	---	---	---	---	---	**0.222**	0.004	0.01
	December-2023	---	---	---	**1.34**	---	---	---	---	---	---	---	---	---	---	---	---	**0.259**	---	---	---	---	---	---	---	---	0.002	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.219**	---	---	---	---	---	---	---	0.0008	0.002
	January-2024	---	---	**0.17**	---	---	---	---	---	---	**0.193**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.128**	0.002	0.005
	February-2024	---	---	**0.23**	---	**0.272**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.203**	---	**0.336**	---	---	---	0.002	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0759**	0.0008	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.414**	---	---	---	0.002	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.36**	---	---	---	---	**0.245**	---	---	---	---	---	---	---	0.0004	0.001
		---	---	---	**0.836**	---	---	---	---	---	---	---	---	---	---	---	---	**0.228**	---	---	---	---	---	---	---	---	0.004	0.01
	May-2024	---	---	---	---	---	---	---	---	---	**0.268**	---	---	---	---	---	---	---	**0.226**	---	**0.183**	**0.352**	---	---	---	**0.11**	0.004	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.226**	---	**0.188**	---	---	---	---	**0.16**	0.004	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**0.252**	**0.246**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.005
	August-2024	---	---	---	---	---	**0.549**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.185**	---	---	---	**0.233**	---	0.004	0.01
	September-2024	---	---	---	**0.948**	---	**0.541**	---	---	---	---	---	---	---	---	---	---	**0.228**	---	---	---	---	---	---	---	---	0.004	0.01
	October-2024	**0.0873**	**0.246**	---	**0.929**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.349**	---	---	---	---	---	0.004	0.01
	November-2024	**0.0797**	**0.237**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.01
	December-2024	---	---	---	**0.773**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.184**	0.004	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00941**	---	---	---	---	---	0.003	0.01
	February-2025	---	**0.21**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.196**	---	---	---	---	---	0.004	0.01
		---	---	---	---	---	---	---	---	---	---	---	**0.0992**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.248**	---	---	---	---	---	---	---	---	**0.199**	---	---	---	---	---	**0.155**	---	---	---	---	---	---	---	---	0.008	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.248**	---	---	---	---	---	**0.143**	---	---	---	---	---	---	---	---	0.008	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.371**	**0.342**	---	---	0.002	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Copper	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.016	0.02
	December-2022	---	ND	---	ND	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	0.016	0.02
	January-2023	---	ND	---	---	---	---	---	---	**0.0127**	**0.0256**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00365**	---	---	---	---	---	---	---	---	0.0003	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.00664**	---	**0.00767**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	June-2023	---	---	---	---	---	---	---	---	---	**0.00154 J**	---	**0.00362 J**	---	**0.00269 J**	---	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	July-2023	---	**0.00124**	---	---	---	---	---	**0.00163**	---	---	---	---	---	---	---	---	---	**0.00811**	---	---	---	---	---	ND	**0.0027**	0.0003	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0015	0.005
		---	---	---	---	---	**0.00343 J**	---	**0.0176**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.003	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00407 J**	---	---	---	---	---	---	---	0.003	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00361**	---	---	**0.000609 J**	---	---	---	---	0.0003	0.001
		---	---	---	---	---	---	**0.00806**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0006	0.002
	November-2023	---	**0.00607**	---	**0.00352**	**0.0212**	---	**0.00756**	---	---	ND	---	---	**0.00341**	---	---	---	---	**0.00387**	---	---	ND	---	---	---	ND	0.003	0.003
	December-2023	---	---	---	**0.00184**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0015	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0034**	---	---	---	---	---	---	---	0.0006	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	**0.019**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0015	0.005
	February-2024	---	---	ND	---	**0.00201**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	0.0015	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00115 J**	0.0006	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00184 J**	---	---	---	0.0015	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.00443**	---	---	---	---	**0.004**	---	---	---	---	---	---	---	0.0003	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.003	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	**0.00486 J**	---	**0.00688 J**	ND	---	---	---	ND	0.003	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00409 J**	---	ND	---	---	---	---	ND	0.003	0.01
	July-2024	---	---	---	---	---	---	---	---	---	**0.398**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0015	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	0.003	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.003	0.01
	October-2024	**0.00612 J**	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00306 J**	---	---	---	---	---	---	0.003	0.01
	November-2024	**0.00569 J**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.003	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.003	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.035 J**	---	---	---	---	---	0.01	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00381 J**	---	---	---	---	---	0.003	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0087 J**	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	**0.0142**	---	---	---	---	---	---	---	---	0.008	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	**0.009 J**	---	---	---	---	---	---	---	---	0.008	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	**0.0123**	---	---	0.0015	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Lead	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	**0.017 J**	---	---	---	---	---	---	---	---	---	---	0.012	0.02
	December-2022	---	ND	---	**0.0381**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	0.012	0.02
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.006	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.006**	---	---	---	---	---	---	---	---	0.001	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.006	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.0022**	---	**0.0067**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	**0.0069**	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	July-2023	---	**0.0014**	---	---	---	---	---	**0.019**	---	---	---	---	---	---	---	---	---	**0.0092**	---	---	---	---	---	ND	**0.0017**	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.005	0.005
		---	---	---	---	---	**0.014**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.013**	---	0.01	0.01
	September-2023	---	---	---	**0.12**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.01	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0036**	---	---	**0.0034**	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	**0.0077**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	November-2023	---	ND	---	**0.13**	**0.0046**	---	**0.014**	---	---	ND	---	---	ND	---	---	---	---	**0.0032**	---	---	**0.0043**	---	---	---	ND	0.003	0.003
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0043**	---	---	---	---	---	---	---	0.002	0.002
		---	---	---	**0.16**	---	---	---	---	---	---	---	---	---	---	---	---	**0.002**	---	---	---	---	---	---	---	---	0.0015	0.0015
	January-2024	---	---	ND	---	---	---	---	---	---	**0.0081**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.005	0.005
	February-2024	---	---	**0.0065**	---	**0.01**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.051**	---	**0.012**	---	---	---	0.001	0.002
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02**	---	---	---	0.005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.0013**	---	---	---	---	**0.0025**	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	**0.13**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.004	0.004
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	**0.11**	ND	---	---	---	ND	0.01	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.024**	---	---	---	---	ND	0.01	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	August-2024	---	---	---	---	---	**0.031**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.027**	---	---	---	ND	---	0.01	0.01
	September-2024	---	---	---	**0.098**	---	**0.057**	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.01	0.01
	October-2024	ND	ND	---	**0.12**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.01	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	December-2024	---	---	---	**0.18**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.01	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.002	0.002
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.02**	---	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	---	**0.0561**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0113**	---	---	---	---	---	---	---	---	**0.0816**	---	---	---	---	---	**0.0229**	---	---	---	---	---	---	---	---	0.006	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.132**	---	---	---	---	---	**0.0207**	---	---	---	---	---	---	---	---	0.006	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.016**	**0.049**	---	---	0.005	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Mercury	November-2022	---	---	---	---	---	---	---	---	---	---	---	**0.00169**	---	---	**0.00053**	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.0008
	December-2022	---	**0.00051**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	**0.00118**	---	ND	**0.00588**	---	---	---	---	**0.0048**	ND	---	---	---	---	---	---	---	---	0.0008	0.0008
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	January-2023	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0004	0.0004
	March-2023	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
	April-2023	---	---	---	---	---	---	---	---	---	---	**0.00128**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0004	0.0004
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.0002
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.004	0.004
	July-2023	---	**0.000306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	ND	0.0002	0.0002
		---	---	---	---	---	---	---	**0.0107**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.001	0.001
		---	---	---	---	---	**0.00312**	---	**0.00397**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.002	0.002
	September-2023	---	---	---	**0.00503**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.002	0.002
	October-2023	---	---	---	---	---	---	**0.00165**	---	---	---	---	---	---	---	---	---	---	ND	---	---	**0.00055**	---	---	---	---	0.0004	0.0004
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	0.0000002	0.0000002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0000004	0.0000004
		---	---	---	**0.00576**	**0.00606**	---	**0.00578**	---	---	ND	---	---	---	---	---	---	---	---	---	---	**0.00954**	---	---	---	ND	0.000004	0.000004
	December-2023	---	---	---	**0.00484**	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0004	0.0004
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.001	0.001
	February-2024	---	---	**0.00376**	---	**0.0115**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00238**	---	**0.00284**	---	---	---	0.001	0.001
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00124**	0.0004	0.0004
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	0.001	0.001
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**0.000201**	---	---	---	---	ND	---	---	---	---	---	---	---	0.0002	0.0002
		---	---	---	**0.00382**	---	---	---	---	---	---	---	---	---	---	---	---	**0.00151**	---	---	---	---	---	---	---	---	0.0008	0.0008
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	---	ND	0.002	0.002
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**0.0119**	---	---	---	---	ND	0.002	0.002
	July-2024	---	---	---	---	---	---	---	---	---	ND	**0.00104**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00671**	---	---	---	ND	---	0.002	0.002
	September-2024	---	---	---	**0.00244**	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.002	0.002
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.00254**	---	---	---	---	---	---	0.002	0.002
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	December-2024	---	---	---	**0.00213**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.002	0.002
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.1047**	---	---	---	---	---	0.01	0.01
	February-2025	---	---	---	---	---	---	---	---	---	---	---	**0.00011**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000009	0.000009
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.002	0.002
	March-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	---	---	---	---	**0.0146**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.00169**	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.001	0.001
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0128**	---	---	0.001	0.001

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Nickel	November-2022	---	---	---	---	---	---	---	---	---	0.0866	---	0.1344	---	---	0.173	---	---	---	---	---	---	---	---	---	---	0.014	0.02
	December-2022	---	0.1722	---	0.5025	---	---	---	0.2989	---	0.1299	0.287	---	---	---	---	0.1853	0.346	---	---	---	---	---	---	---	---	0.014	0.02
	January-2023	---	0.1074	---	---	---	---	---	---	0.1442	0.0407	---	---	---	---	0.0769	---	---	---	---	---	---	---	---	---	---	0.007	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1726	---	---	---	---	---	---	---	---	0.001	0.001
	March-2023	---	---	---	---	---	---	---	---	0.1254	0.1033	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.007	0.01
	April-2023	---	---	---	---	---	---	---	---	0.1143	---	0.1732	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	0.001
	May-2023	---	0.113	---	---	---	---	---	---	0.09726	0.05657	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	June-2023	---	---	---	---	---	---	---	---	---	0.05978	---	0.05892	---	0.07161	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	July-2023	---	0.09872	---	---	---	---	---	0.08332	---	---	---	---	---	---	---	---	---	0.1576	---	---	---	---	---	0.03074	0.01403	0.001	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.02029	0.005	0.005
		---	---	---	---	---	0.1457	---	0.09673	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0513	---	0.01	0.01
	September-2023	---	---	---	0.5152	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2387	---	---	---	---	---	---	---	0.01	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2019	---	---	0.09206	---	---	---	---	0.001	0.001
		---	---	---	---	---	---	0.104	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002	0.002
	November-2023	---	0.1178	---	0.4227	0.1242	---	0.07791	---	---	0.05944	---	---	0.1493	---	---	---	---	0.2492	---	---	---	0.1332	---	---	---	0.05277	0.01	0.01
	December-2023	---	---	---	0.6091	---	---	---	---	---	---	---	---	---	---	---	---	0.1447	---	---	---	---	---	---	---	---	0.005	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2127	---	---	---	---	---	---	---	---	0.002	0.002
	January-2024	---	---	0.06308	---	---	---	---	---	---	0.04911	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0326	0.005	0.005
	February-2024	---	---	0.07945	---	0.07013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.09174	---	0.06183	---	---	---	0.005	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.02232	0.002	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.08678	---	---	---	0.005	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	0.1319	---	---	---	---	0.196	---	---	---	---	---	---	---	0.001	0.001
		---	---	---	0.3136	---	---	---	---	---	---	---	---	---	---	---	---	0.1139	---	---	---	---	---	---	---	---	0.01	0.01
	May-2024	---	---	---	---	---	---	---	---	---	0.0538	---	---	---	---	---	---	---	0.2065	---	0.07835	0.09235	---	---	---	0.02884	0.01	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.211	---	0.07664	---	---	---	---	0.03166	0.01	0.01
	July-2024	---	---	---	---	---	---	---	---	---	0.1917	0.03634	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.005
	August-2024	---	---	---	---	---	0.1008	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0822	---	---	---	0.02104	---	0.01	0.01
	September-2024	---	---	---	0.396	---	0.1138	---	---	---	---	---	---	---	---	---	---	0.08772	---	---	---	---	---	---	---	---	0.01	0.01
	October-2024	0.07251	0.115	---	0.3536	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05751	---	---	---	---	---	---	0.01	0.01
	November-2024	0.03879	0.09665	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	December-2024	---	---	---	0.2964	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03528	0.01	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0085	0.01
	February-2025	---	0.09275	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.1021	---	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	0.0933	---	---	---	---	---	---	---	---	0.0375	---	---	---	---	---	0.0818	---	---	---	---	---	---	---	---	0.007	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	0.0161	---	---	---	---	---	0.0713	---	---	---	---	---	---	---	---	0.007	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.07897	0.03695	---	---	0.005	0.005
Selenium	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.08	0.1
	December-2022	---	ND	---	ND	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	0.08	0.1
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.04	0.05
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00199	---	---	---	---	---	---	---	---	0.00085	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.04	0.05
	April-2023	---	---	---	---	---	---	---	---	0.00189	---	0.00185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00085	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	0.00569	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	July-2023	---	0.00101	---	---	---	---	---	0.00331	---	---	---	---	---	---	---	---	---	0.00116	---	---	---	---	---	0.00251	ND	0.00085	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00425	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.0085	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0085	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00186	---	---	0.0044	---	---	---	---	0.00085	0.001
		---	---	---	---	---	---	0.00332	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0017	0.002
	November-2023	---	ND	---	0.00425	0.00314	---	0.00315	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	0.0032	---	---	---	ND	0.003	0.003
	December-2023	---	---	---	0.00785	---	---	---	---	---	---	---	---	---	---	---	---	0.00253	---	---	---	---	---	---	---	---	0.0015	0.0015
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00215	---	---	---	---	---	---	---	0.0017	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00425	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00571	---	0.00651	---	---	---	0.00425	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0017	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00627	---	---	---	0.00425	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	0.000929 J	---	---	---	---	---	---	---	0.00085	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0085	0.01
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	---	ND	0.0085	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	ND	0.0085	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00425	0.005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	0.0085	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0085	0.01
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0085	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0085	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0085	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0006	0.01
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0085	0.01
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	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.04	0.05
	April-2025	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.04	0.05
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	0.00425	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Silver	November-2022	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.01	0.02
	December-2022	---	ND	---	**0.0187 J**	---	---	---	ND	---	ND	ND	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	0.01	0.02
	January-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.00006	0.001
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005	0.01
	April-2023	---	---	---	---	---	---	---	---	ND	---	**0.00011 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00006	0.001
	May-2023	---	ND	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.005
	June-2023	---	---	---	---	---	---	---	---	---	ND	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.005
	July-2023	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	ND	0.00006	0.001
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0003	0.005
		---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	0.0006	0.01
	September-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.0006	0.01
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	---	---	0.00006	0.001
		---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00012	0.002
	November-2023	---	ND	---	ND	ND	---	ND	---	---	ND	---	---	ND	---	---	---	---	ND	---	---	ND	---	---	---	ND	0.0006	0.01
	December-2023	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.00025	0.001
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	0.00012	0.002
	January-2024	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0003	0.005
	February-2024	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	0.0003	0.005
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.00012	0.002
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	0.0003	0.005
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	0.00006	0.001
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0004	0.001
	May-2024	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	---	---	---	ND	0.0006	0.01
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	ND	0.0006	0.01
	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0003	0.0005
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	0.0006	0.01
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.0006	0.01
	October-2024	ND	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	0.0006	0.01
	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0006	0.01
	December-2024	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.0006	0.01
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.789**	---	---	---	---	---	0.025	0.05
	February-2025	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.0006	0.01
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00232	0.0025
	March-2025	---	ND	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.005	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	**0.007 J**	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	0.005	0.01
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	0.0003	0.005

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Zinc	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**0.032**	---	---	**0.694**	---	---	---	---	---	---	---	---	---	---	0.02	0.02
	December-2022	---	**0.208**	---	**29.7**	---	---	---	**0.162**	---	**0.0686**	**0.75**	---	---	---	---	**0.364**	**0.286**	---	---	---	---	---	---	---	---	0.02	0.02
	January-2023	---	**0.133**	---	---	---	---	---	---	**0.15**	**0.074**	---	---	---	---	**0.0752**	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0851**	---	---	---	---	---	---	---	---	0.0025	0.005
	March-2023	---	---	---	---	---	---	---	---	**0.0689**	**0.0538**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.01
	April-2023	---	---	---	---	---	---	---	---	**0.0539**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	---	---	---	---	**0.414**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.025	0.05
	May-2023	---	**0.079**	---	---	---	---	---	---	**0.0635**	**0.0519**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	June-2023	---	---	---	---	---	---	---	---	---	**0.0538**	---	**0.0253**	---	**0.945**	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	July-2023	---	**0.0488**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0714**	---	---	---	---	---	**0.354**	**0.0782**	0.0025	0.005
		---	---	---	---	---	---	---	**2.03**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.112**	0.0125	0.025
		---	---	---	---	---	---	---	**1.71**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.914**	---	0.025	0.05
		---	---	---	---	---	**5.92**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05	0.1
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0788**	---	---	---	---	---	---	---	0.025	0.05
		---	---	---	**45**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0622**	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	**0.203**	---	---	---	---	---	---	---	---	---	---	---	---	---	**633**	---	---	---	---	0.005	0.01
	November-2023	---	**0.0471 J**	---	---	**0.0534**	---	**0.74**	---	---	**0.053**	---	---	**0.0618**	---	---	---	---	**0.0722**	---	---	**0.845**	---	---	---	**0.0313 J**	0.025	0.05
		---	---	---	**30.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	December-2023	---	---	---	**52.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.061**	---	---	---	---	---	---	---	0.005	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0462**	---	---	---	---	---	---	---	---	0.025	0.025
	January-2024	---	---	**0.117**	---	---	---	---	---	---	**0.0974**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0261**	0.0125	0.025
	February-2024	---	---	**0.0879**	---	**0.0554**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.475**	---	**0.809**	---	---	---	0.0125	0.025
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0342**	0.005	0.01
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.09**	---	---	---	0.0125	0.025
	April-2024	---	---	---	---	---	---	---	---	---	---	---	**0.0565**	---	---	---	---	---	**0.0539**	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0394**	---	---	---	---	---	---	---	---	0.02	0.02
		---	---	---	**24.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	May-2024	---	---	---	---	---	---	---	---	---	**0.165**	---	---	---	---	---	---	---	**0.0568**	---	**1.3**	**1.43**	---	---	---	**0.0812**	0.025	0.05
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0505**	---	**0.498**	---	---	---	---	ND	0.025	0.05
	July-2024	---	---	---	---	---	---	---	---	---	**0.104**	**0.0451**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0125	0.025
	August-2024	---	---	---	---	---	**3.49**	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.512**	---	---	---	**0.417**	---	0.025	0.05
	September-2024	---	---	---	**0.212**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0025	0.005
		---	---	---	---	---	**3.68**	---	---	---	---	---	---	---	---	---	---	**0.111**	---	---	---	---	---	---	---	---	0.025	0.05
	October-2024	**0.266**	**0.077**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.342**	---	---	---	---	---	---	0.025	0.05
		---	---	---	**20.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	November-2024	**0.0325 J**	**0.0367 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.025	0.05
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0696**	0.025	0.05
		---	---	---	**14.3**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.25	0.5
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.002	0.002
	February-2025	---	**0.0405 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.527**	---	---	---	---	---	0.025	0.05
		---	---	---	---	---	---	---	---	---	---	---	**0.136**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0465	0.05
	March-2025	---	**0.0415**	---	---	---	---	---	---	---	---	**0.155**	---	---	---	---	---	**0.0277**	---	---	---	---	---	---	---	---	0.01	0.01
	April-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.0297**	---	---	---	---	---	---	---	---	0.01	0.01
		---	---	---	---	---	---	---	---	---	---	**0.366**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05	0.05
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.1**	**1.55**	---	---	0.0125	0.025

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
VOLATILE FATTY ACIDS (mg/L)																												
Acetic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	1600	---	---	---	---	---	---	---	---	---	---	---	---	---	25	100
		---	---	---	---	---	---	---	---	---	3500	---	---	---	---	150 J	---	---	---	---	---	---	---	---	---	---	62	250
	December-2022	---	1800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	62	250
	January-2023	---	ND	---	---	---	---	---	---	ND	4400	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	500
	March-2023	---	---	---	---	---	---	---	---	ND	640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
	April-2023	---	---	---	---	---	---	---	---	1200	---	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	370	500
	May-2023	---	990	---	---	---	---	---	---	1800	3000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	370	500
	June-2023	---	---	---	---	---	---	---	---	---	5900	---	4100	---	5000	---	---	---	---	---	---	---	---	---	---	---	750	1000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	150	200
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	370	500
		---	---	---	---	---	---	---	6100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	---	750	1000
	August-2023	---	---	---	---	---	3300	---	5300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4200	ND	---	500
	September-2023	---	---	---	7400	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	370	500
	October-2023	---	---	---	---	---	---	3200	---	---	---	---	---	---	---	---	---	---	720	---	---	4100	---	---	---	---	370	500
	November-2023	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	4160	250	500
		---	---	---	---	4950	---	6650	---	---	5350	---	---	---	---	---	---	---	---	---	---	7300	---	---	---	---	500	1000
		---	---	---	9900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	2000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	660	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	11200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	4410	---	---	---	---	---	---	5290	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3080	---	250
	February-2024	---	---	3130	---	3530	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3530	---	6770	---	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2700	---	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	46000	---	---	---	---	1000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1670	---	---	---	---	---	---	---	---	---	250
		---	---	---	9170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	4370	---	---	---	---	221	---	250
		---	---	---	---	---	---	---	---	---	4950	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6530	---	---	---	---	---	1250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3890	---	---	---	---	4450	---	500
	July-2024	---	---	---	---	---	---	---	---	---	6280	6180	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	August-2024	---	---	---	---	---	5210	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	---	---	---	5540	---	---	500
	September-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2950	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	5970	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
		---	---	---	10400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4780	---	---	---	---	---	---	---	250
		---	---	---	9410	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	960	230	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10000	---	200
		---	---	---	17000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	---	---	---	---	---	---	100
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6640	6530	---	---	71.4	500

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Butyric Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**430**	---	---	---	---	---	---	---	---	---	---	---	---	---	12	100
		---	---	---	---	---	---	---	---	---	**830**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	29	250
	December-2022	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29	250
	January-2023	---	ND	---	---	---	---	---	---	ND	**1800**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	500
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
	April-2023	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330	500
	May-2023	---	ND	---	---	---	---	---	---	ND	**1200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	330	500
	June-2023	---	---	---	---	---	---	---	---	---	**2500**	---	**1500**	---	**2900**	---	---	---	---	---	---	---	---	---	---	---	650	1000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	130	200
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	330	500
		---	---	---	---	---	---	---	**2800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**650**	---	650	1000
	August-2023	---	---	---	---	---	**1400**	---	**1700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1600**	ND	---	500
	September-2023	---	---	---	**3100**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	330	500
	October-2023	---	---	---	---	---	---	**1200**	---	---	---	---	---	---	---	---	---	---	ND	---	---	**2000**	---	---	---	---	330	500
	November-2023	---	ND	---	---	**1670**	---	**1760**	---	---	**1370**	---	---	ND	---	---	---	---	ND	---	---	**2730**	---	---	---	**740**	250	500
		---	---	---	**3420**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**336**	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	**3390**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**813**	---	---	---	---	---	---	**1230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**594**	---	250
	February-2024	---	---	**583**	---	**1170**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	**2980**	---	---	---	---	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**500**	---	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2100**	---	---	---	---	200
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
		---	---	---	**3120**	---	---	---	---	---	---	---	---	---	---	---	---	**444**	---	---	---	---	---	---	---	---	---	250
	May-2024	---	---	---	---	---	---	---	---	---	**1190**	---	---	---	---	---	---	---	ND	---	**984**	**2370**	---	---	---	**448**	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**1190**	---	---	---	---	**1030**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**2400**	**2360**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**1630**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	---	**1930**	---	---	500
	September-2024	---	---	---	**3550**	---	**2060**	---	---	---	---	---	---	---	---	---	---	**670**	---	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
		---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
		---	---	---	**3070**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	November-2024	**480**	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2200**	---	200
		---	---	---	**4600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1100**	---	---	---	---	---	---	100
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2220**	**2160**	---	---	70.3	500
Lactic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	11	100
		---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	27	250
	December-2022	---	**90 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27	250
	November-2023	---	ND	---	---	**968**	---	**1800**	---	---	**969**	---	---	ND	---	---	---	---	ND	---	---	**1170**	---	---	---	**324**	250	500
		---	---	---	**6030**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	100
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	**9050**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1000
	January-2024	---	---	**629**	---	---	---	---	---	---	**979**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**256**	---	250
	February-2024	---	---	**334**	---	**180**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
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	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20
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		---	---	---	**5120**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	May-2024	---	---	---	---	---	---	---	---	---	**1160**	---	---	---	---	---	---	---	ND	---	**1170**	**1730**	---	---	---	ND	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**706**	---	---	---	---	**246**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**1220**	**1210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**2270**	---	---	---	---	---	---	---	---	---	---	---	---	---	**593**	---	---	---	**959**	---	---	500
	September-2024	---	---	---	---	---	**2550**	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	250
		---	---	---	**5510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
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	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
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		---	---	---	**5300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**480**	---	---	---	---	---	---	100
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**---**	---	---	---	---	**963**	**783**	---	---	55.7	500

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Propionic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**620**	---	---	---	---	---	---	---	---	---	---	---	---	---	11	100
		---	---	---	---	---	---	---	---	---	**1600**	---	---	---	---	**73 J**	---	---	---	---	---	---	---	---	---	---	27	250
	December-2022	---	**640**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27	250
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	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	500
	March-2023	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500
	April-2023	---	---	---	---	---	---	---	---	**600**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340	500
	May-2023	---	**520**	---	---	---	---	---	---	**800**	**1400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340	500
	June-2023	---	---	---	---	---	---	---	---	---	**2900**	---	**2000**	---	**2900**	---	---	---	---	---	---	---	---	---	---	---	680	1000
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	140	200
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	August-2023	---	---	---	---	---	**1200**	---	**2000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1900**	ND	---	500
	September-2023	---	---	---	**1800**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	340	500
	October-2023	---	---	---	---	---	---	**1300**	---	---	---	---	---	---	---	---	---	---	ND	---	---	**2000**	---	---	---	---	340	500
	November-2023	---	ND	---	---	**2170**	---	**2310**	---	---	**2080**	---	---	**387**	---	---	---	---	ND	---	---	**3350**	---	---	---	**1420**	250	500
		---	---	---	**2580**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	1000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**996**	---	---	---	---	---	---	---	---	---	100
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	January-2024	---	---	**1680**	---	---	---	---	---	---	**1970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1030**	---	250
	February-2024	---	---	**1210**	---	**1510**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
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	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**570**	---	20
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	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	100
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	May-2024	---	---	---	---	---	---	---	---	---	**1730**	---	---	---	---	---	---	---	ND	---	**1640**	**2770**	---	---	---	**647**	---	250
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**1870**	---	---	---	---	**1400**	---	100
	July-2024	---	---	---	---	---	---	---	---	---	**2500**	**2470**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	**1320**	---	---	---	---	---	---	---	---	---	---	---	---	---	**1920**	---	---	---	**2040**	---	---	500
	September-2024	---	---	---	**2640**	---	**1690**	---	---	---	---	---	---	---	---	---	---	**1300**	---	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
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	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3300**	---	200
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	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1800**	---	---	---	---	---	---	100
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2570**	**2560**	---	---	57.3	500
Pyruvic Acid	November-2022	---	---	---	---	---	---	---	---	---	---	---	**46 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	12	100
		---	---	---	---	---	---	---	---	---	**98 J**	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	30	250
	December-2022	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	250
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	July-2024	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250
	August-2024	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	---	500
	September-2024	---	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	250
	October-2024	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50
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	November-2024	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200
	December-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**410**	---	200
		---	---	---	**460**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	400
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	100
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**132 J**	**124 J**	---	---	44.4	250

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
VOLATILE ORGANIC COMPOUNDS (ug/L)																												
2-Butanone (MEK)	November-2022	---	---	---	---	---	---	---	---	---	**3510**	---	---	---	---	**1140**	---	---	---	---	---	---	---	---	---	---	30	100
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	December-2022	---	**3140**	---	---	---	---	---	---	---	---	**3390**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
		---	---	---	**26800**	---	---	---	**27700**	---	**5670**	---	---	---	---	---	**21700**	**7150**	---	---	---	---	---	---	---	---	300	1000
	January-2023	---	**3480**	---	---	---	---	---	---	**632**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
		---	---	---	---	---	---	---	---	---	**7840**	---	---	---	---	**5470**	---	---	---	---	---	---	---	---	---	---	300	1000
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**14400**	---	---	---	---	---	---	---	---	600	2000
	March-2023	---	---	---	---	---	---	---	---	**257**	**2770**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	100
	April-2023	---	---	---	---	---	---	---	---	**3420**	---	**5530**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	May-2023	---	**5360**	---	---	---	---	---	---	**5970**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
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	June-2023	---	---	---	---	---	---	---	---	---	**13800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
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	July-2023	---	**5860**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	60	200
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		---	---	---	---	---	---	---	**38400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31600**	---	3000	10000
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5950**	60	200
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		---	---	---	---	---	**25600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**439**	---	---	---	---	---	---	---	60	200
		---	---	---	**17500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**211**	---	---	---	---	---	---	---	15	50
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	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**78.8 J**	---	---	---	---	---	---	---	30	100
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		---	---	---	**25700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
		---	---	---	---	**22300**	---	---	---	---	---	---	---	**17600**	---	---	---	---	---	---	---	**26700**	---	---	---	**31200**	1500	5000
	December-2023	---	---	---	**13700**	---	---	---	---	---	---	---	---	---	---	---	---	**7060**	ND	---	---	---	---	---	---	---	150	500
	January-2024	---	---	---	---	---	---	---	---	---	**10800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	**34700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**28900**	1500	5000
	February-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**12700**	---	---	---	---	---	150	500
		---	---	**30500**	---	**28900**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17400**	---	---	---	1500	5000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11700**	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25200**	1500	5000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**14600**	---	---	---	---	ND	---	---	---	---	---	---	---	30	100
		---	---	---	**37200**	---	---	---	---	---	---	---	---	---	---	---	---	**28700**	---	---	---	---	---	---	---	---	750	2500
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	5000
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**7340**	---	---	---	---	**18600**	150	500
		---	---	---	---	---	---	---	---	---	**25700**	---	---	---	---	---	---	---	---	---	---	**32700**	---	---	---	---	1500	5000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**13800**	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**33200**	15000	25000
	July-2024	---	---	---	---	---	---	---	---	---	**15600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	**25400**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1500	5000
	August-2024	---	---	---	---	---	**17700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**7260**	---	---	---	**17900**	---	150	500
	September-2024	---	---	---	**19000**	---	**16600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**32200**	---	---	---	---	---	---	---	---	1500	5000
	October-2024	**28.2**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	10
		---	**2770**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		---	---	---	**13000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**10800**	---	---	---	---	---	---	150	500
	November-2024	---	**4140**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		28800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	2500
	December-2024	---	---	---	**658**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**41800**	600	2000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17000**	---	---	---	---	---	1500	5000
	February-2025	---	**6930**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	60	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23900**	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**2540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	**30600**	---	---	---	---	---	**33700**	---	---	---	---	---	---	---	---	1500	5000
	April-2025	---	---	---	---	---	---	---	---	---	---	**20800**	---	---	---	---	---	**28100**	---	---	---	---	---	---	---	---	150	500
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**12500**	---	---	---	150	500
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**16700**	---	---	1500	5000

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Acetone	November-2022	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4420**	---	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**16100**	---	**38300**	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
	December-2022	---	---	---	---	---	---	---	---	---	**15600**	**5170**	---	---	---	---	---	**9800**	---	---	---	---	---	---	---	---	700	1000
		---	**8500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	**53100**	---	---	---	**49900**	---	---	---	---	---	---	---	**45600**	---	---	---	---	---	---	---	---	---	3500	5000
	January-2023	---	---	---	---	---	---	---	---	**1530**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**22200**	---	---	---	---	**14000**	---	---	---	---	---	---	---	---	---	---	700	1000
		---	**8130**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23900**	---	---	---	---	---	---	---	---	1400	2000
	March-2023	---	---	---	---	---	---	---	---	**375**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	**6810**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
	April-2023	---	---	---	---	---	---	---	---	**8290**	---	**7560**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	May-2023	---	**10700**	---	---	---	---	---	---	**11700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		---	---	---	---	---	---	---	---	---	**29600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	June-2023	---	---	---	---	---	---	---	---	---	**29600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
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	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1180**	---	---	---	---	---	---	---	140	200
		---	**9780**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
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	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**20900**	700	1000
		---	---	---	---	---	---	---	**18700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	---	**72500**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**87700**	---	3500	5000
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**188 J**	---	---	---	---	---	---	---	140	200
		---	---	---	**40100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**79**	---	---	---	---	---	---	---	35	50
		---	---	---	---	---	---	**66900**	---	---	---	---	---	---	---	---	---	---	---	---	---	**92900**	---	---	---	3500	5000
	November-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**104**	---	---	---	---	---	---	---	70	100
		---	**5560**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
		---	---	---	**64700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	---	**43100**	---	**61100**	---	---	**36800**	---	---	**32800**	---	---	---	---	---	---	---	**53900**	---	---	---	**67800**	3500	5000
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	140	200
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		---	---	---	**44300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	January-2024	---	---	**96600**	---	---	---	---	---	---	**22800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**47300**	3500	5000
	February-2024	---	---	**81600**	---	**70200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**45600**	---	**63100**	---	---	---	3500	5000
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**50800**	---	---	**57600**	3500	5000
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	70	100
		---	---	---	---	---	---	---	---	---	---	---	---	**24300**	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
		---	---	---	**95300**	---	---	---	---	---	---	---	---	---	---	---	---	**55200**	---	---	---	---	---	---	---	---	3500	5000
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	140	200
		---	---	---	---	---	---	---	---	---	**63200**	---	---	---	---	---	---	---	---	---	**39000**	**91300**	---	---	---	**33300**	3500	5000
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	140	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**94400**	---	---	---	---	**84400**	35000	50000
	July-2024	---	---	---	---	---	---	---	---	---	**32200**	**52600**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3500	5000
	August-2024	---	---	---	---	---	**57700**	---	---	---	---	---	---	---	---	---	---	---	---	---	**36000**	---	---	---	**81500**	---	3500	5000
	September-2024	---	---	---	**59800**	---	**44500**	---	---	---	---	---	---	---	---	---	---	**69300**	---	---	---	---	---	---	---	---	3500	5000
	October-2024	**30.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7	10
		---	**5230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	140	200
		---	---	---	**49800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**40700**	---	---	---	---	---	---	3500	5000
	November-2024	---	**8680**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		44400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1750	2500
	December-2024	---	---	---	**51700**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**69700**	1400	2000
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**65300**	---	---	---	---	---	3500	5000
	February-2025	---	**9820**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	700	1000
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		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	49000	98000
	March-2025	---	**4460**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	500
		---	---	---	---	---	---	---	---	---	---	**72600**	---	---	---	---	---	**86400**	---	---	---	---	---	---	---	---	3500	5000
	April-2025	---	---	---	---	---	---	---	---	---	---	**61200**	---	---	---	---	---	**78000**	---	---	---	---	---	---	---	---	3500	5000
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**57300**	**58600**	---	---	3500	5000

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Benzene	November-2022	---	---	---	---	---	---	---	---	---	**7.4 J**	---	**2860**	---	---	**50.4**	---	---	---	---	---	---	---	---	---	---	4	10
	December-2022	---	**301**	---	**2960**	---	---	---	---	---	**6.3 J**	**622**	---	---	---	---	**1750**	**179**	---	---	---	---	---	---	---	---	4	10
		---	---	---	---	---	---	---	**6550**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	40	100
	January-2023	---	**240**	---	---	---	---	---	---	**28.7**	**1620**	---	---	---	---	**167**	---	---	---	---	---	---	---	---	---	---	4	10
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1370**	---	---	---	---	---	---	---	---	4	10
	March-2023	---	---	---	---	---	---	---	---	**1540**	**727**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	April-2023	---	---	---	---	---	---	---	---	**3740**	---	**320**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	May-2023	---	**814**	---	---	---	---	---	---	**4890**	**3370**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	June-2023	---	---	---	---	---	---	---	---	---	**2630**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	**1400**	---	**1590**	---	---	---	---	---	---	---	---	---	---	---	20	50
	July-2023	---	**824**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**80.8**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	**4050**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1420**	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11800**	100	250
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**379**	8	20
		---	---	---	---	---	**2320**	---	**168**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20	50
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**193**	---	---	---	---	---	---	---	8	20
		---	---	---	**468**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**399**	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	**576**	---	---	---	---	---	---	---	---	---	---	---	---	---	**3100**	---	---	---	---	20	50
	November-2023	---	**80.8**	---	---	---	---	---	---	---	---	---	---	**31.3**	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**323**	---	---	---	---	---	---	---	4	10
		---	---	---	---	**1070**	---	**654**	---	---	**982**	---	---	---	---	---	---	---	---	---	---	**1960**	---	---	---	**1190**	20	50
		---	---	---	**870**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**932**	---	---	---	---	---	---	---	---	8	20
		---	---	---	**1330**	---	---	---	---	---	---	---	---	---	---	---	---	---	**463**	---	---	---	---	---	---	---	20	50
	January-2024	---	---	**1410**	---	---	---	---	---	---	**662**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2900**	20	50
	February-2024	---	---	**906**	---	**884**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**346**	---	**484**	---	---	---	20	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**226**	---	---	**8910**	20	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**52.1**	---	---	---	---	**13.8**	---	---	---	---	---	---	---	4	10
		---	---	---	**2040**	---	---	---	---	---	---	---	---	---	---	---	---	**3420**	---	---	---	---	---	---	---	---	20	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**276**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	**3080**	---	---	---	---	---	---	---	---	---	**144**	**818**	---	---	---	**2990**	20	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**173**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**210**	---	---	---	---	**2740**	20	50
	July-2024	---	---	---	---	---	---	---	---	---	**1410**	**1820**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	August-2024	---	---	---	---	---	**828**	---	---	---	---	---	---	---	---	---	---	---	---	---	**162**	---	---	---	**384**	---	20	50
	September-2024	---	---	---	**960**	---	**727**	---	---	---	---	---	---	---	---	---	---	**2710**	---	---	---	---	---	---	---	---	20	50
	October-2024	**306**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.4	1
		---	**429**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	**1200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**828**	---	---	---	---	---	---	20	50
	November-2024	**119**	**512**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
	December-2024	---	---	---	**675**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3280**	20	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**588**	---	---	---	---	---	20	50
	February-2025	---	**739**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**443**	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	**559000**	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**157**	---	---	---	---	---	---	---	---	**1260**	---	---	---	---	---	**2350**	---	---	---	---	---	---	---	---	20	50
	April-2025	---	---	---	---	---	---	---	---	---	---	**938**	---	---	---	---	---	**1540**	---	---	---	---	---	---	---	---	20	50
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**255**	**222**	---	---	20	50

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Ethylbenzene	December-2022	---	**67.3**	---	**172**	---	---	---	**287**	---	ND	**48.5**	---	---	---	---	**108**	**27.4**	---	---	---	---	---	---	---	---	4	10
	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**194**	---	---	**16.2**	---	---	---	---	---	---	---	---	---	---	4	10
	January-2023	---	**65.1**	---	---	---	---	---	---	ND	**93.9**	---	---	---	---	**20.8**	---	---	---	---	---	---	---	---	---	---	4	10
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**151**	---	---	---	---	---	---	---	---	4	10
	March-2023	---	---	---	---	---	---	---	---	**131**	**71.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	April-2023	---	---	---	---	---	---	---	---	**186**	---	**43.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4	10
	May-2023	---	**124**	---	---	---	---	---	---	**276**	**144**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	June-2023	---	---	---	---	---	---	---	---	---	**104**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	**98**	---	**116**	---	---	---	---	---	---	---	---	---	---	---	20	50
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**666**	4	10
		---	**128**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**82**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	**224**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**87.5**	---	20	50
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**16.8 J**	8	20
		---	---	---	---	---	**80**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	20	50
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**22.8**	---	---	---	---	---	---	---	8	20
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.8**	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	**42.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**247**	---	---	---	---	20	50
	November-2023	---	**26.3**	---	---	---	---	---	---	---	---	---	---	**45.4**	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**26.9**	---	---	---	---	---	---	---	4	10
		---	---	---	---	**62**	---	**54**	---	---	**76.5**	---	---	---	---	---	---	---	---	---	---	**224**	---	---	---	**60.5**	20	50
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**46**	---	---	---	---	---	---	---	---	8	20
		---	---	---	**69.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	**44 J**	---	---	---	---	---	---	---	20	50
	January-2024	---	---	**99**	---	---	---	---	---	---	**28 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**248**	20	50
	February-2024	---	---	**51**	---	**43 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31 J**	---	**41 J**	---	---	---	20	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25 J**	---	---	**710**	20	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**106**	---	---	---	---	ND	---	---	---	---	---	---	---	4	10
		---	---	---	**91.5**	---	---	---	---	---	---	---	---	---	---	---	---	**186**	---	---	---	---	---	---	---	---	20	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**35.4**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	**146**	---	---	---	---	---	---	---	---	---	ND	**59**	---	---	---	**225**	20	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**23.6**	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**142**	20	50
	July-2024	---	---	---	---	---	---	---	---	---	**76**	**118**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	50
	August-2024	---	---	---	---	---	**27.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**27 J**	20	50
	September-2024	---	---	---	**46.5 J**	---	**44 J**	---	---	---	---	---	---	---	---	---	---	**192**	---	---	---	---	---	---	---	---	20	50
	October-2024	**59.6**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.4	1
		---	**112**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	5
		---	---	---	**62.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**76**	---	---	---	---	---	---	20	50
	November-2024	**14.4 J**	**135**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
	December-2024	---	---	---	**52.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**252**	20	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**54.5**	---	---	---	---	---	20	50
	February-2025	---	**164**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**158**	---	---	---	---	---	20	50
		---	---	---	---	---	---	---	---	---	---	---	**2090000**	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**61.5**	---	---	---	---	---	---	---	---	**168**	---	---	---	---	---	**117**	---	---	---	---	---	---	---	---	20	50
	April-2025	---	---	---	---	---	---	---	---	---	---	**52.5**	---	---	---	---	---	**73.5**	---	---	---	---	---	---	---	---	20	50
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**29 J**	**38 J**	---	---	20	50

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Tetrahydrofuran	November-2022	---	---	---	---	---	---	---	---	---	**309**	---	---	---	---	**176**	---	---	---	---	---	---	---	---	---	---	100	100
		---	---	---	---	---	---	---	---	---	---	---	**8530**	---	---	---	---	---	---	---	---	---	---	---	---	---	1000	1000
	December-2022	---	**151**	---	---	---	---	---	---	---	**170**	**1120**	---	---	---	---	---	**663**	---	---	---	---	---	---	---	---	100	100
		---	---	---	**5210**	---	---	---	**19800**	---	---	---	---	---	---	---	**6130**	---	---	---	---	---	---	---	---	---	1000	1000
	January-2023	---	**183**	---	---	---	---	---	---	**566**	**1810**	---	---	---	---	**352**	---	---	---	---	---	---	---	---	---	---	100	100
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3760**	---	---	---	---	---	---	---	---	2000	2000
	March-2023	---	---	---	---	---	---	---	---	**353**	**464**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	April-2023	---	---	---	---	---	---	---	---	**2410**	---	**4790**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	100	100
	May-2023	---	ND	---	---	---	---	---	---	**2740**	**2380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
	June-2023	---	---	---	---	---	---	---	---	---	**2100**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	**7320**	---	**6670**	---	---	---	---	---	---	---	---	---	---	---	500	500
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2960**	100	100
		---	**411**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**616**	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	**8380**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**5310**	---	500	500
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2880**	200	200
		---	---	---	---	---	**7370**	---	**3210**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1200**	---	500	500
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**343**	---	---	---	---	---	---	---	200	200
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2500	2500
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**606**	---	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	**4870**	---	---	---	---	---	---	---	---	---	---	---	---	---	**9140**	---	---	---	---	500	500
	November-2023	---	**199**	---	---	---	---	---	---	---	---	---	---	**325**	---	---	---	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**358**	---	---	---	---	---	---	---	100	100
		---	---	---	---	**4780**	---	**3320**	---	---	**785**	---	---	---	---	---	---	---	---	---	---	**5370**	---	---	---	**4600**	500	500
		---	---	---	**4620**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2500	2500
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4240**	---	---	---	---	---	---	---	---	200	200
		---	---	---	**2620**	---	---	---	---	---	---	---	---	---	---	---	---	---	**502**	---	---	---	---	---	---	---	500	500
	January-2024	---	---	**5160**	---	---	---	---	---	---	**1040**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**10900**	500	500
	February-2024	---	---	**3500**	---	**4580**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3520**	---	**4910**	---	---	---	500	500
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3320**	---	---	**8710**	500	500
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**697**	---	---	---	---	ND	---	---	---	---	---	---	---	100	100
		---	---	---	**7290**	---	---	---	---	---	---	---	---	---	---	---	---	**7680**	---	---	---	---	---	---	---	---	500	500
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**555**	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	**2660**	---	---	---	---	---	---	---	---	---	**1880**	**5860**	---	---	---	**7640**	500	500
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**568**	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3830**	---	---	---	---	**13000**	500	500
	July-2024	---	---	---	---	---	---	---	---	---	**1900**	**4020**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	500	500
	August-2024	---	---	---	---	---	**3220**	---	---	---	---	---	---	---	---	---	---	---	---	---	**2020**	---	---	---	**4610**	---	500	500
	September-2024	---	---	---	**2950**	---	**2730**	---	---	---	---	---	---	---	---	---	---	**6640**	---	---	---	---	---	---	---	---	500	500
	October-2024	**248**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	10
		---	**318**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	50
		---	---	---	**2580**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2730**	---	---	---	---	---	---	500	500
	November-2024	**6620**	**452**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
	December-2024	---	---	---	**5660**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**17000**	500	500
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**11200**	---	---	---	---	---	500	500
	February-2025	---	**1020**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	200
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**7490**	---	---	---	---	---	500	500
		---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	ND	---	---	---	---	---	---	---	---	**4890**	---	---	---	---	---	**10000**	---	---	---	---	---	---	---	---	500	500
	April-2025	---	---	---	---	---	---	---	---	---	---	**3660**	---	---	---	---	---	**5920**	---	---	---	---	---	---	---	---	500	500
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**4080**	**5700**	---	---	500	500

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Toluene	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**214**	---	---	**32.8**	---	---	---	---	---	---	---	---	---	---	5	10
	December-2022	---	**122**	---	**175**	---	---	---	**195**	---	ND	**113**	---	---	---	---	**113**	**48.3**	---	---	---	---	---	---	---	---	5	10
	January-2023	---	**122**	---	---	---	---	---	---	**8 J**	**139**	---	---	---	---	**35.3**	---	---	---	---	---	---	---	---	---	---	5	10
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**224**	---	---	---	---	---	---	---	---	5	10
	March-2023	---	---	---	---	---	---	---	---	**182**	**98.1**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	10
	April-2023	---	---	---	---	---	---	---	---	**303**	---	**94.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	10
	May-2023	---	**258**	---	---	---	---	---	---	**371**	**239**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25	50
	June-2023	---	---	---	---	---	---	---	---	---	**165**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	---	---	**67**	---	**212**	---	---	---	---	---	---	---	---	---	---	---	25	50
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**965**	5	10
		---	**248**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**107**	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	**218**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**118**	---	25	50
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36.6**	10	20
		---	---	---	---	---	**105**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	25	50
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**40.6**	---	---	---	---	---	---	---	10	20
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	125	250
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**59.2**	---	---	---	---	---	---	---	2.5	5
		---	---	---	---	---	---	**37 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**235**	---	---	---	---	25	50
	November-2023	---	**47.3**	---	---	---	---	---	---	---	---	---	---	**50.4**	---	---	---	---	---	---	---	---	---	---	---	---	2.5	5
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48.7**	---	---	---	---	---	---	---	5	10
		---	---	---	---	**62.5**	---	**51.5**	---	---	**114**	---	---	---	---	---	---	---	---	---	---	**167**	---	---	---	**114**	25	50
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	125	250
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**73.2**	---	---	---	---	---	---	---	---	10	20
		---	---	---	**83.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	**74.5**	---	---	---	---	---	---	---	25	50
	January-2024	---	---	**95.5**	---	---	---	---	---	---	**60**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**310**	25	50
	February-2024	---	---	**49 J**	---	**37 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	**30.5 J**	---	---	---	25	50
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**73**	---	---	**916**	25	50
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**90.1**	---	---	---	---	ND	---	---	---	---	---	---	---	5	10
		---	---	---	**104**	---	---	---	---	---	---	---	---	---	---	---	---	**263**	---	---	---	---	---	---	---	---	25	50
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**53.8**	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	**180**	---	---	---	---	---	---	---	---	---	ND	**62.5**	---	---	---	**284**	25	50
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**34.6**	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**228**	25	50
	July-2024	---	---	---	---	---	---	---	---	---	**97**	**125**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25	50
	August-2024	---	---	---	---	---	**35 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**25 J**	25	50
	September-2024	---	---	---	**80**	---	**63.5**	---	---	---	---	---	---	---	---	---	---	**226**	---	---	---	---	---	---	---	---	25	50
	October-2024	**55.7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.5	1
		---	**173**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.5	5
		---	---	---	**65.5**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**72**	---	---	---	---	---	---	25	50
	November-2024	**44.6**	**245**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20
	December-2024	---	---	---	**42 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**288**	25	50
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**36 J**	---	---	---	---	---	25	50
	February-2025	---	**271**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	20
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**54.5**	---	---	---	---	---	25	50
		---	---	---	---	---	---	---	---	---	---	---	**537000**	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**90.5**	---	---	---	---	---	---	---	---	**150**	---	---	---	---	---	**166**	---	---	---	---	---	---	---	---	25	50
	April-2025	---	---	---	---	---	---	---	---	---	---	**51**	---	---	---	---	---	**114**	---	---	---	---	---	---	---	---	25	50
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	25	50

Historical LFG-EW Leachate Monitoring Results Summary

Well ID		EW-36A	EW-50	EW-51	EW-52	EW-53	EW-54	EW-55	EW-57	EW-58	EW-59	EW-60	EW-61	EW-62	EW-64	EW-65	EW-67	EW-68	EW-78	EW-82	EW-85	EW-87	EW-88	EW-89	EW-94	EW-98	LOD	LOQ
Parameter	Monitoring Event	Concentration																										
Xylenes, Total	November-2022	---	---	---	---	---	---	---	---	---	ND	---	**185**	---	---	**37.8**	---	---	---	---	---	---	---	---	---	---	10	30
	December-2022	---	**161**	---	**222**	---	---	---	**186**	---	ND	**112**	---	---	---	---	**197**	**59.9**	---	---	---	---	---	---	---	---	10	30
	January-2023	---	**138**	---	---	---	---	---	---	ND	**134**	---	---	---	---	**38.1**	---	---	---	---	---	---	---	---	---	---	10	30
	February-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**240**	---	---	---	---	---	---	---	---	10	30
	March-2023	---	---	---	---	---	---	---	---	**240**	**111**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	30
	April-2023	---	---	---	---	---	---	---	---	**329**	---	**97.4**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	30
	May-2023	---	**274**	---	---	---	---	---	---	**441**	**230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	150
	June-2023	---	---	---	---	---	---	---	---	---	**177**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	**92 J**	---	**136 J**	---	---	---	---	---	---	---	---	---	---	---	50	150
	July-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1130**	10	30
		---	**257**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**74.4**	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	**230**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**174**	---	50	150
	August-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**48.4 J**	20	60
		---	---	---	---	---	**180**	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	50	150
	September-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	20	60
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	750
	October-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**30.6**	---	---	---	---	---	---	---	5	15
		---	---	---	---	---	---	**134 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	**328**	---	---	---	---	50	150
	November-2023	---	**56**	---	---	---	---	---	---	---	---	---	---	**48**	---	---	---	---	---	---	---	---	---	---	---	---	5	15
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**25.3 J**	---	---	---	---	---	---	---	10	30
		---	---	---	---	**116 J**	---	**104 J**	---	---	**132 J**	---	---	---	---	---	---	---	---	---	---	**306**	---	---	---	**138 J**	50	150
		---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	750
	December-2023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**167**	---	---	---	---	---	---	---	---	20	60
		---	---	---	**224**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	50	150
	January-2024	---	---	**142 J**	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**534**	50	150
	February-2024	---	---	**63 J**	---	**59 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---	50	150
	March-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	**1360**	50	150
	April-2024	---	---	---	---	---	---	---	---	---	---	---	---	**110**	---	---	---	---	ND	---	---	---	---	---	---	---	10	30
		---	---	---	**140 J**	---	---	---	---	---	---	---	---	---	---	---	---	**352**	---	---	---	---	---	---	---	---	50	150
	May-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**31.6 J**	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	**223**	---	---	---	---	---	---	---	---	---	ND	**105 J**	---	---	---	**400**	50	150
	June-2024	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**261**	50	150
	July-2024	---	---	---	---	---	---	---	---	---	**125 J**	**157**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	150
	August-2024	---	---	---	---	---	**72.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	**55.5 J**	50	150
	September-2024	---	---	---	**90.5 J**	---	**120 J**	---	---	---	---	---	---	---	---	---	---	**368**	---	---	---	---	---	---	---	---	50	150
	October-2024	**54.3**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3
		---	**201**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	15
		---	---	---	**144 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75.5 J**	---	---	---	---	---	---	50	150
	November-2024	ND	**223**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
	December-2024	---	---	---	**98.5 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**487**	50	150
	January-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**82 J**	---	---	---	---	---	50	150
	February-2025	---	**267**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	60
		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**354**	---	---	---	---	---	50	150
		---	---	---	---	---	---	---	---	---	---	---	**4260000**	---	---	---	---	---	---	---	---	---	---	---	---	---	24500	24500
	March-2025	---	**108 J**	---	---	---	---	---	---	---	---	**386**	---	---	---	---	---	**200**	---	---	---	---	---	---	---	---	50	150
	April-2025	---	---	---	---	---	---	---	---	---	---	**87.5 J**	---	---	---	---	---	**144 J**	---	---	---	---	---	---	---	---	50	150
	May-2025	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	50	150

--- = not applicable/available

J = Parameter was detected at a concentration greater than the laboratory's LOD, but less than the laboratory's LOQ. Concentration is considered estimated.

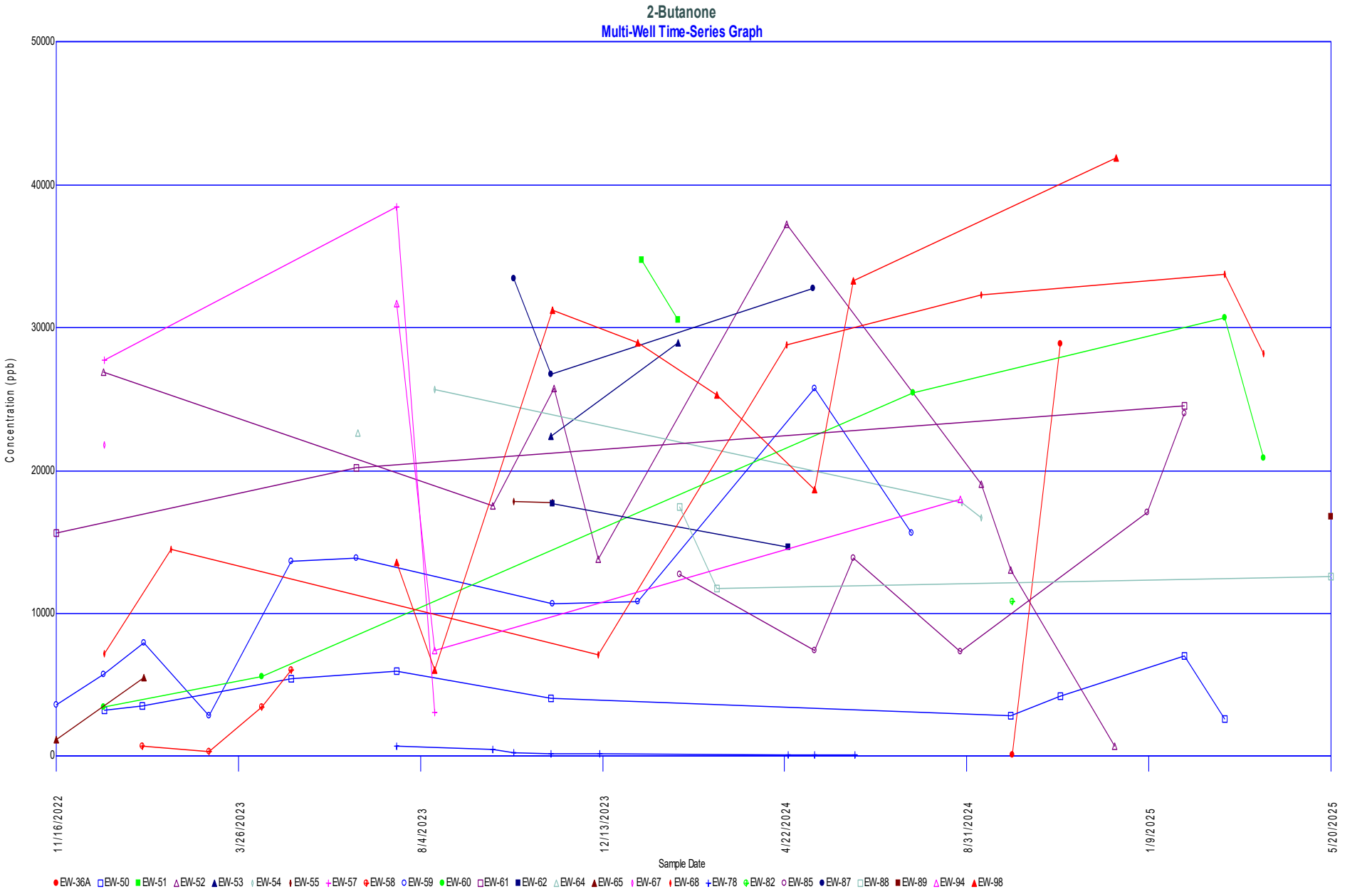
LOD = laboratory's Limit of Detection

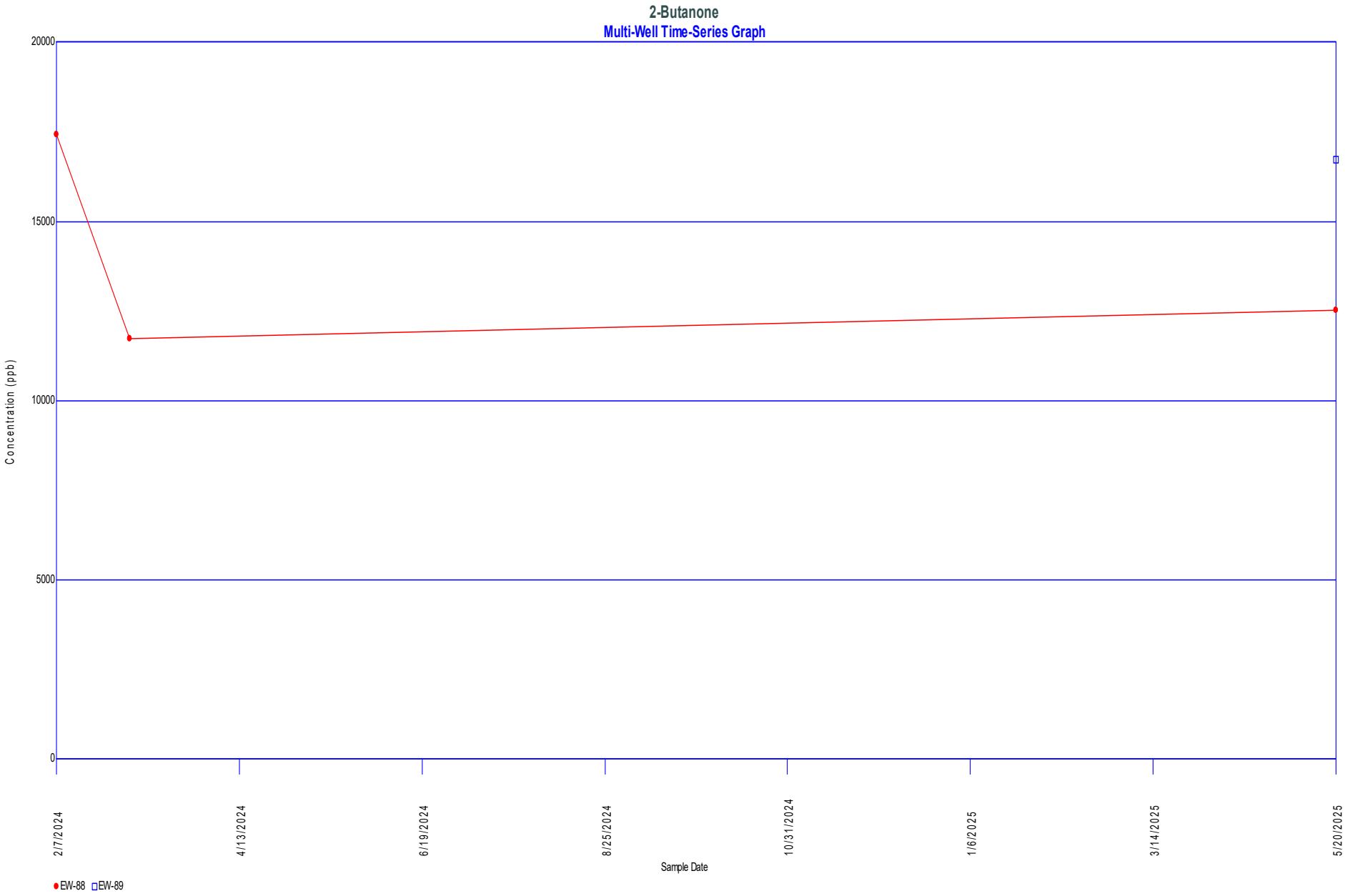
LOQ = laboratory's Limit of Quantitation

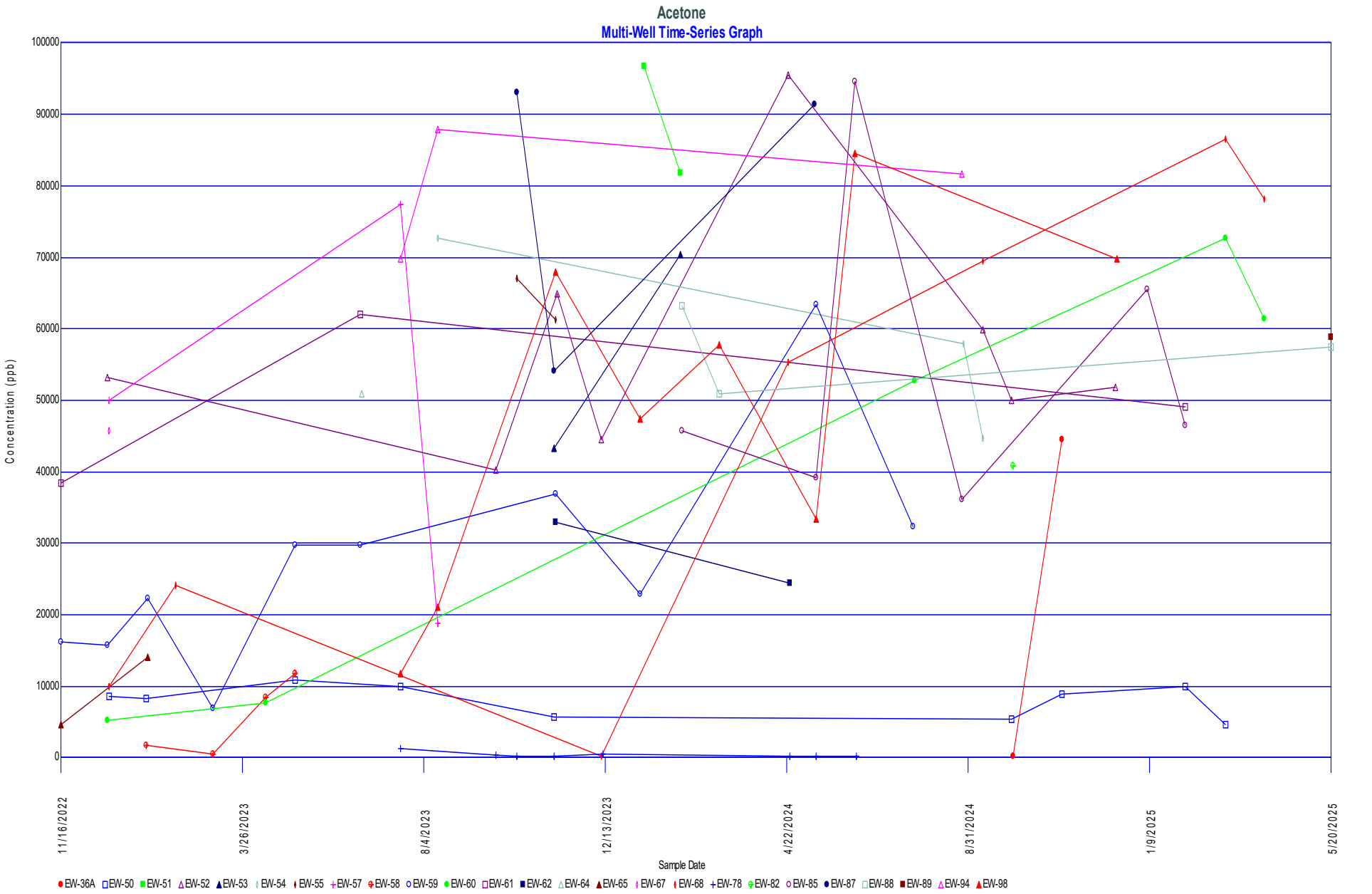
mg/L = milligrams per liter

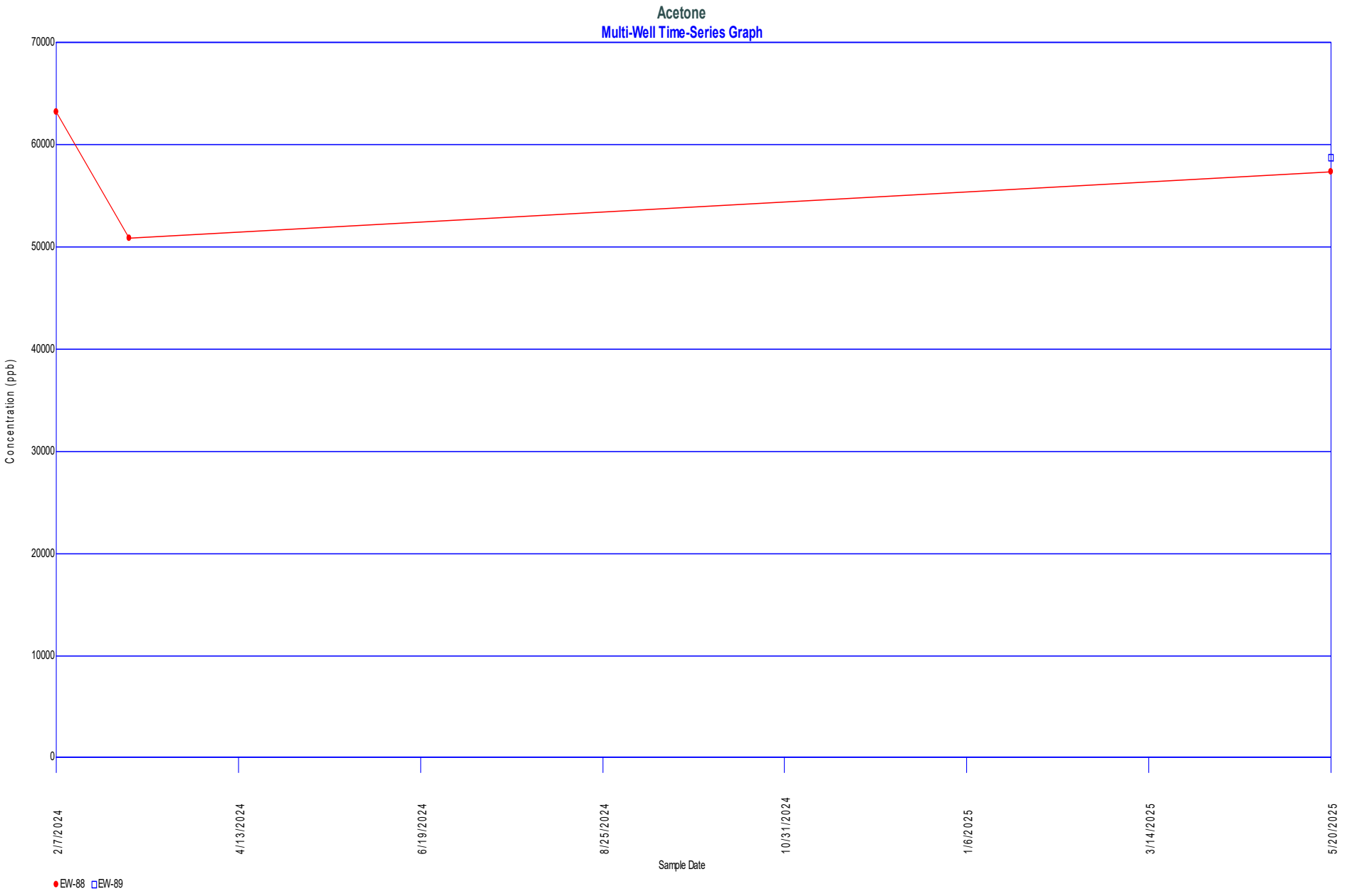
ND = Not Detected

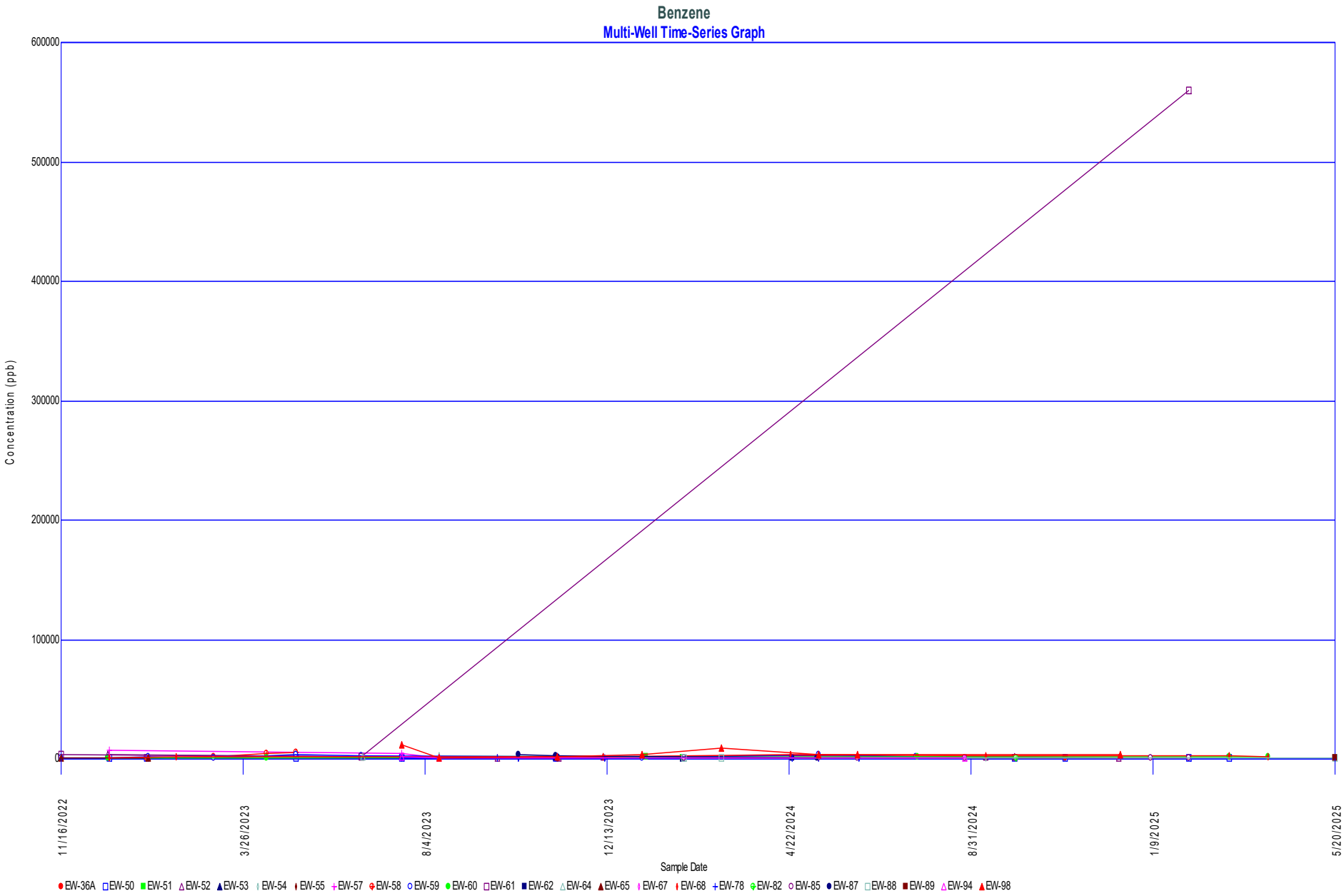
ug/L = micrograms per liter


2-Butanone
Multi-Well Time-Series Graph
Concentration (ppb)
50000
40000
30000
20000
10000
0
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98


2-Butanone
Multi-Well Time-Series Graph
20000
15000
10000
5000
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

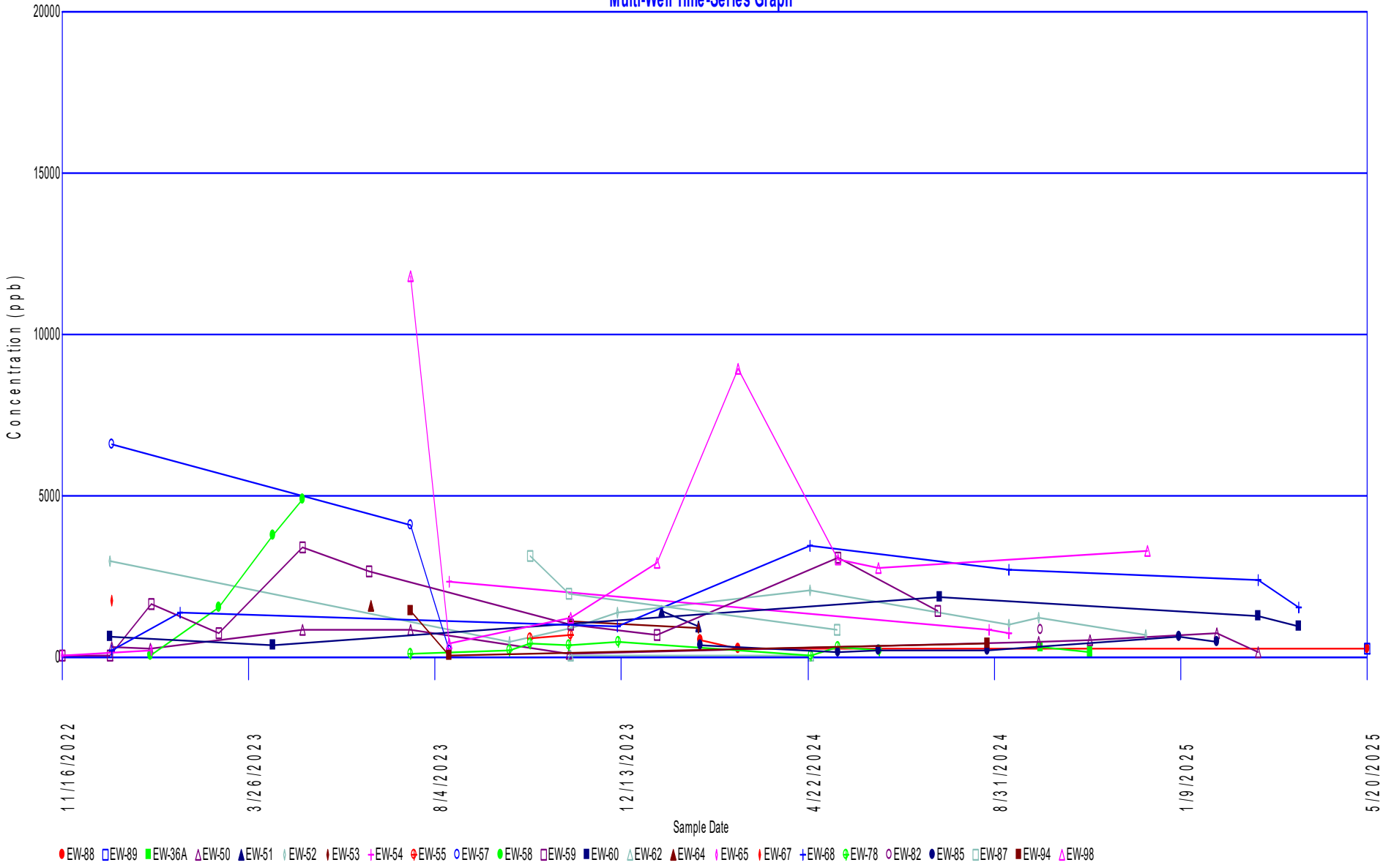

Acetone
Multi-Well Time-Series Graph
Concentration (ppb)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

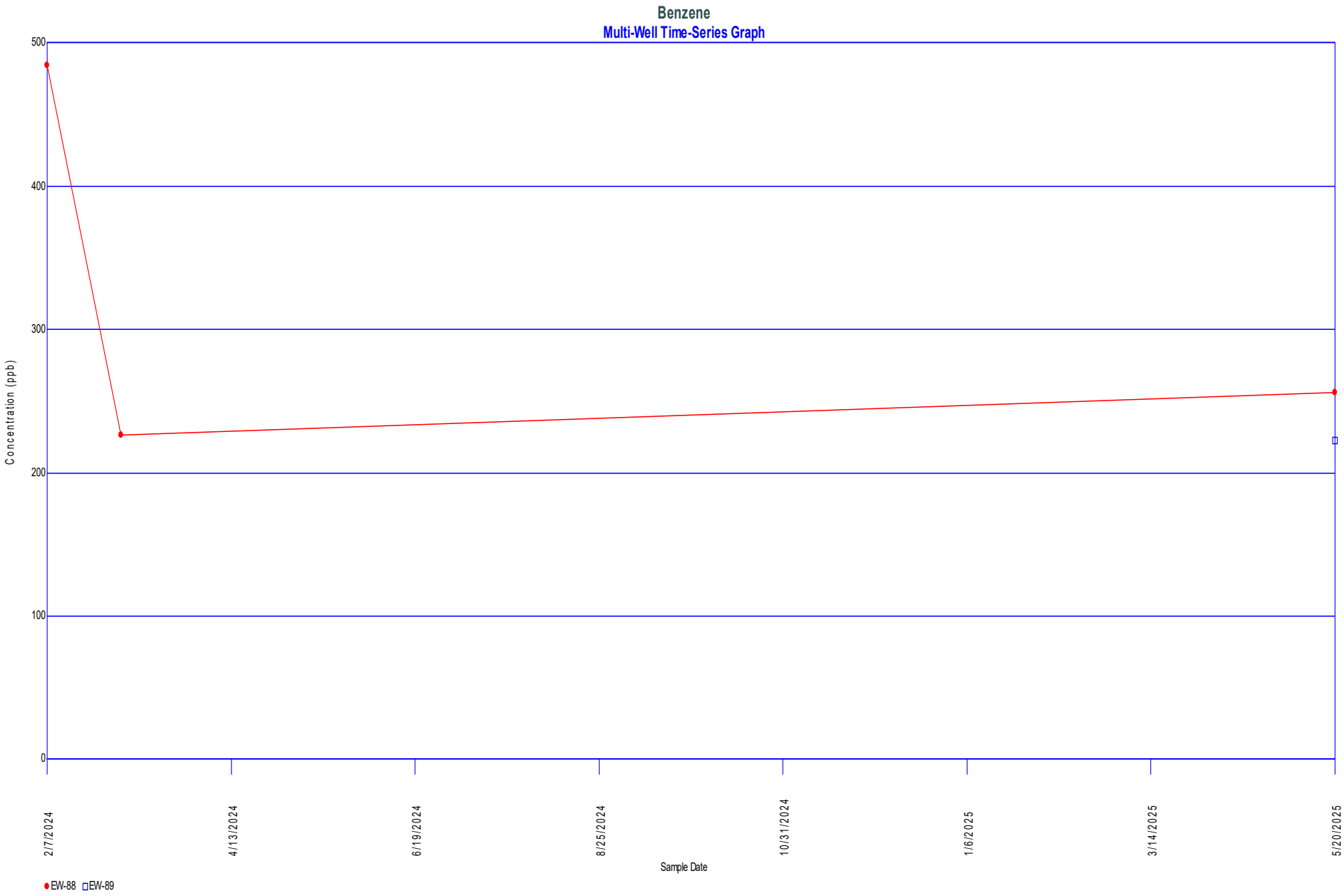

Acetone
Multi-Well Time-Series Graph
70000
60000
50000
40000
30000
20000
10000
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

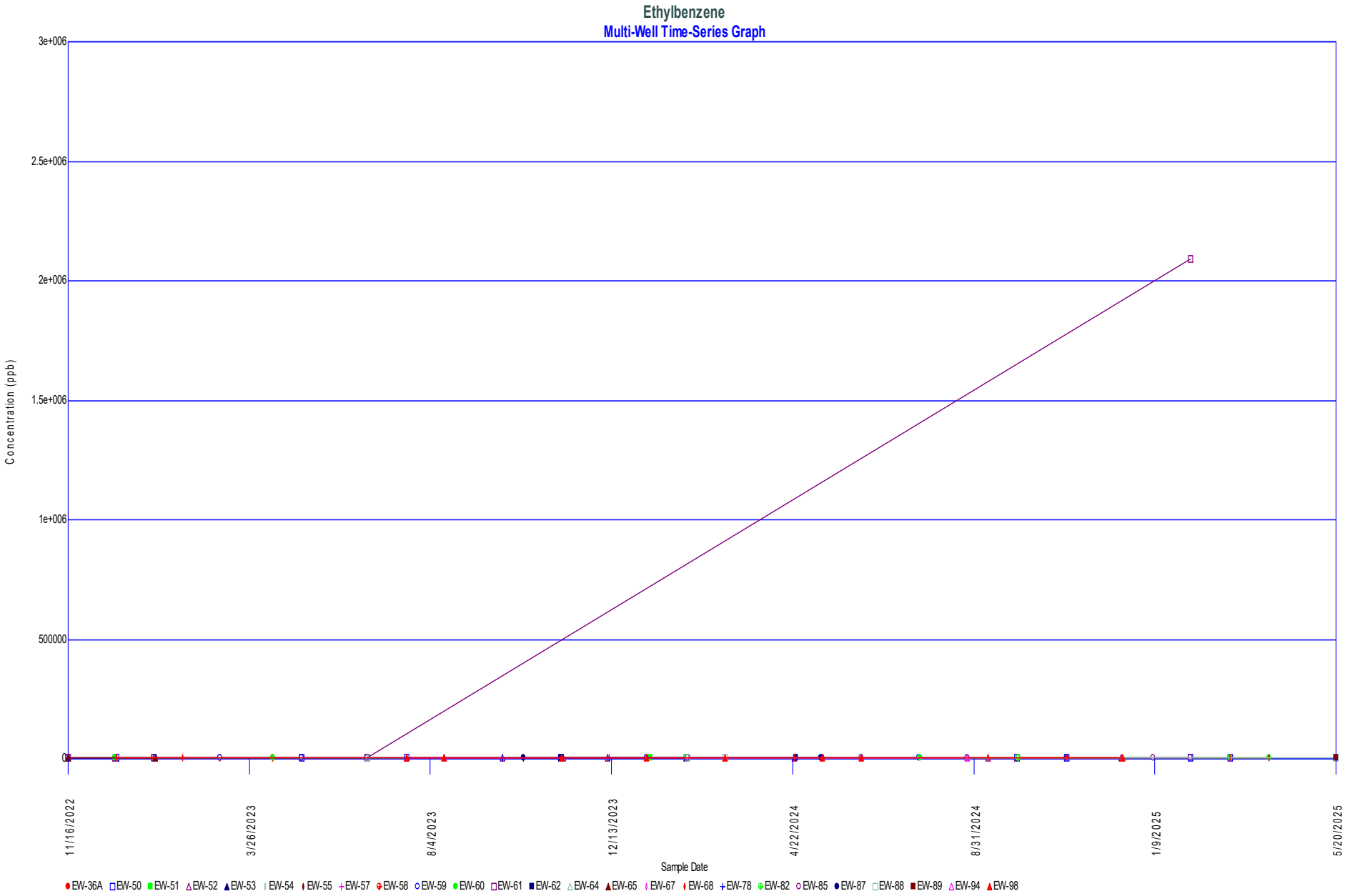

Benzene
Multi-Well Time-Series Graph
600000
500000
400000
300000
200000
100000
Concentration (ppb)
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

Benzene

Multi-Well Time-Series Graph

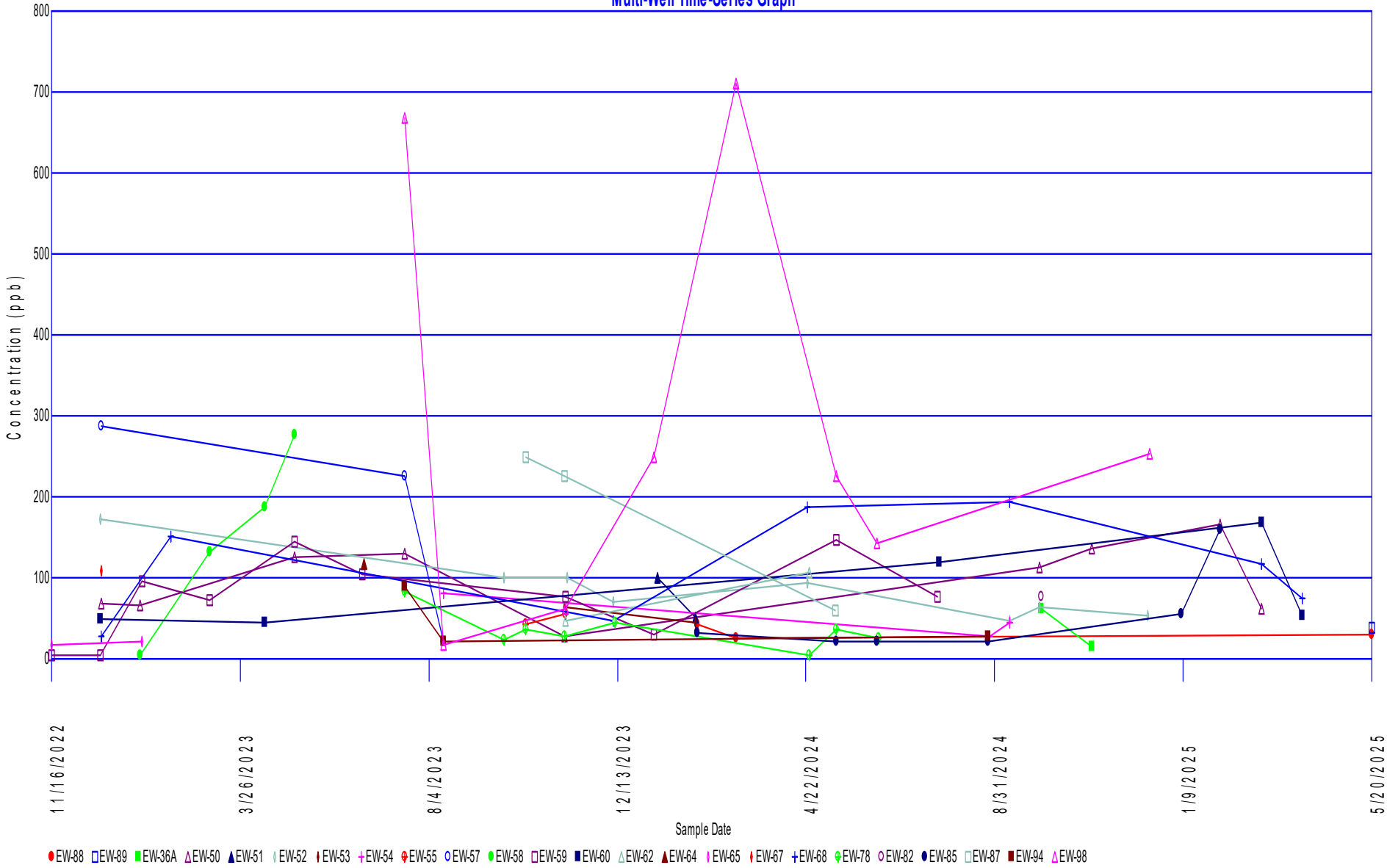


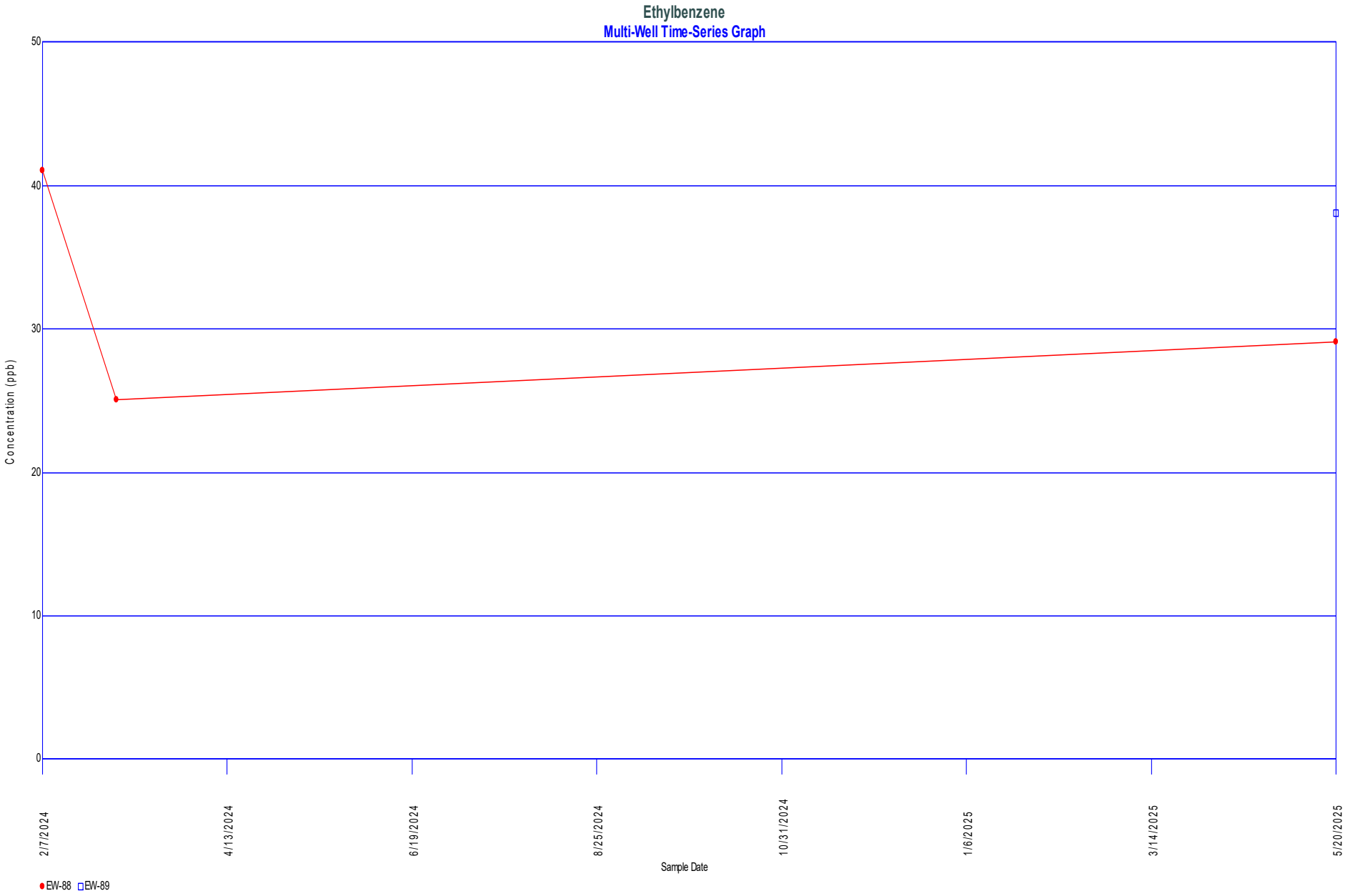

Benzene
Multi-Well Time-Series Graph
500
400
300
200
100
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

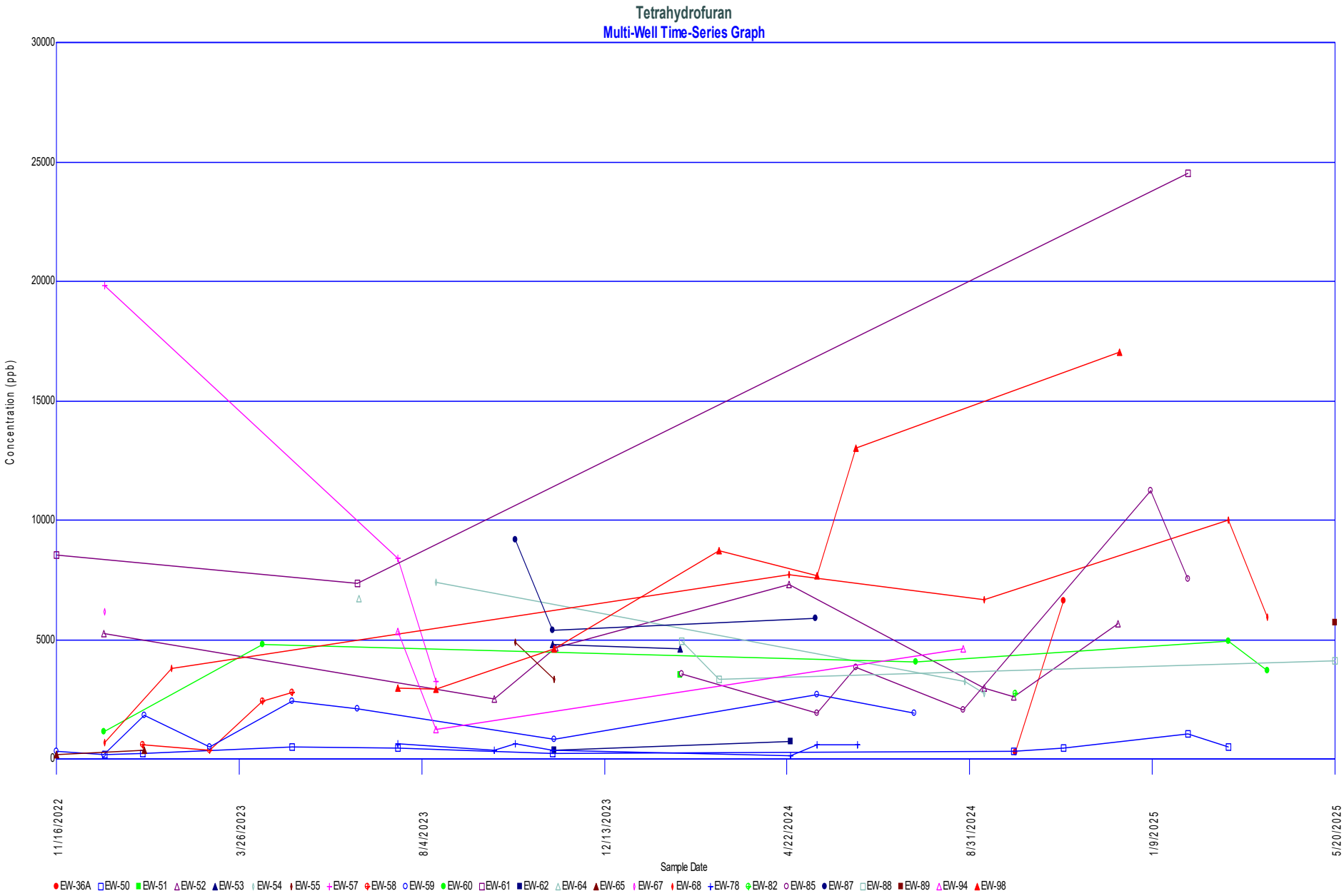

Ethylbenzene
Multi-Well Time-Series Graph
3e+006
2.5e+006
2e+006
1.5e+006
1e+006
500000
0
Concentration (ppb)
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

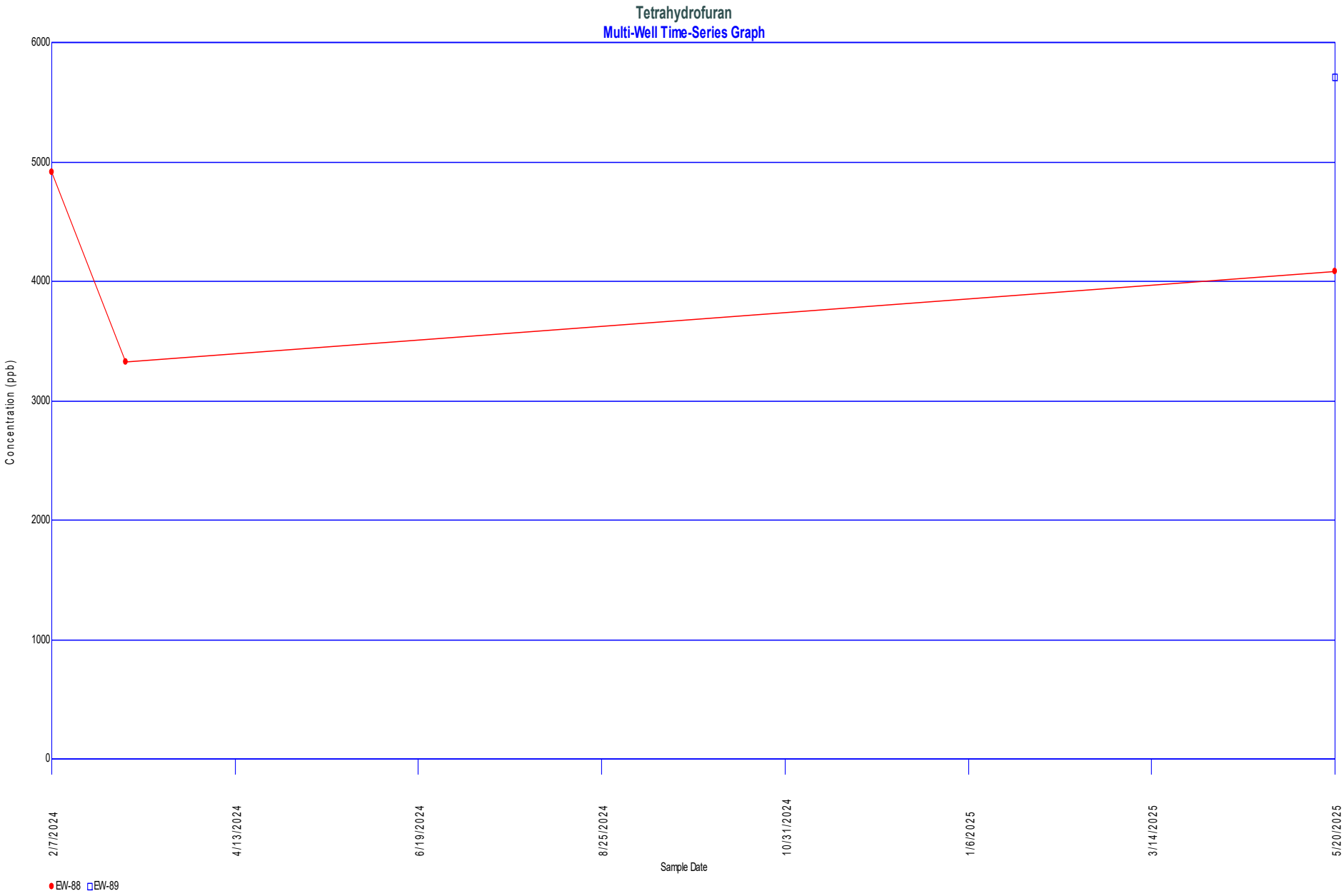
Ethylbenzene

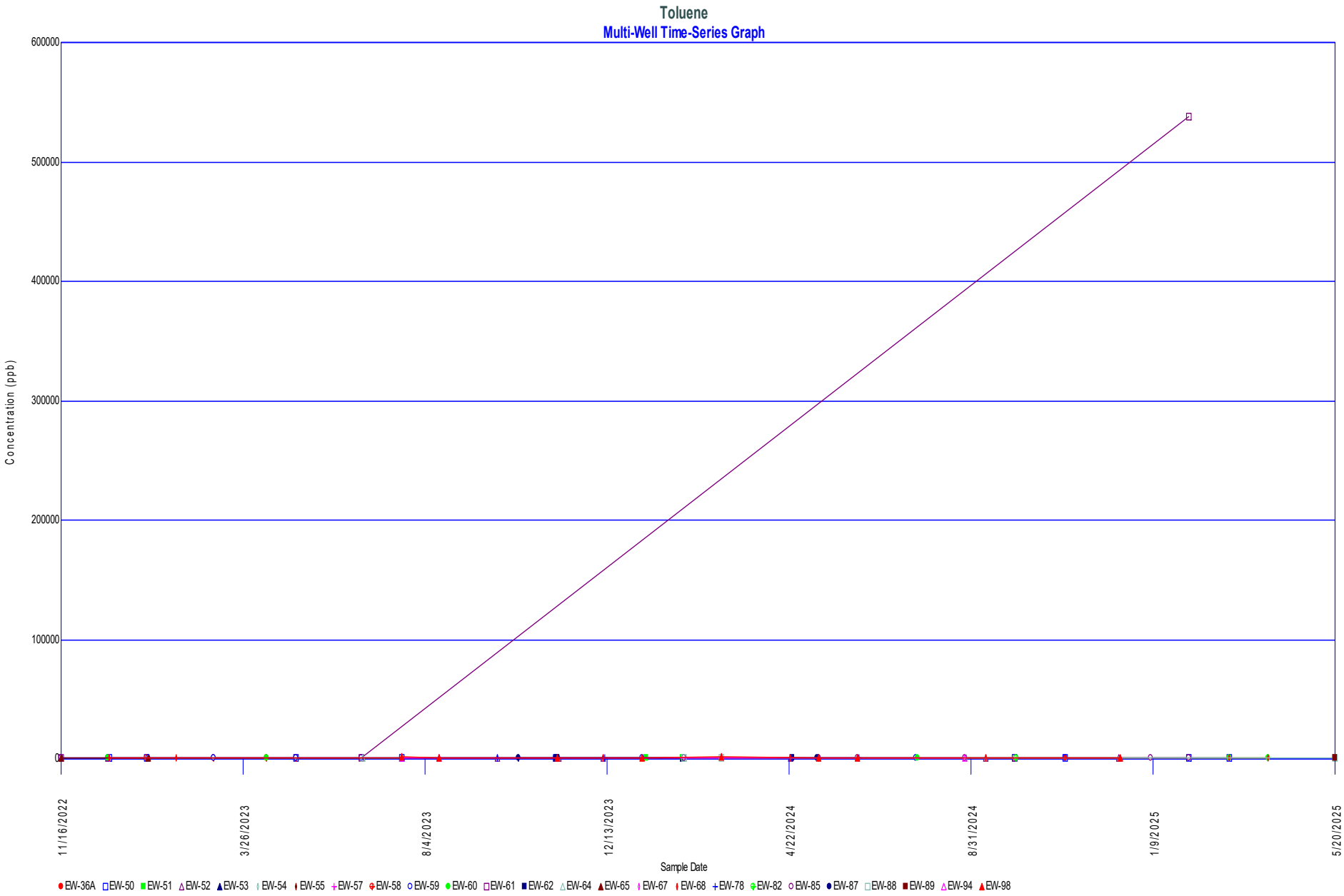
Multi-Well Time-Series Graph




Ethylbenzene
Multi-Well Time-Series Graph
50
40
30
20
10
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

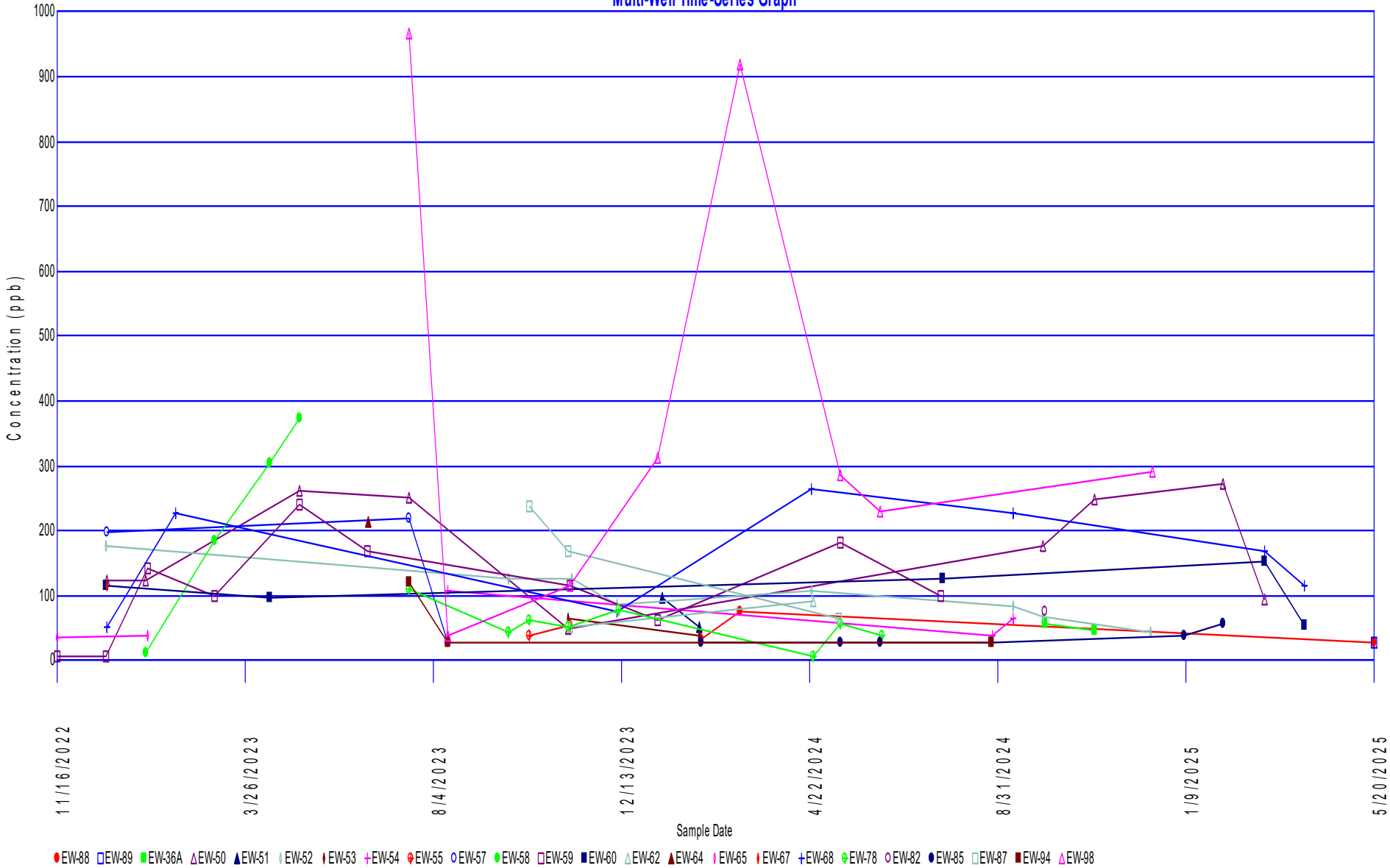

Tetrahydrofuran
Multi-Well Time-Series Graph
Concentration (ppb)
30000
25000
20000
15000
10000
5000
0
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

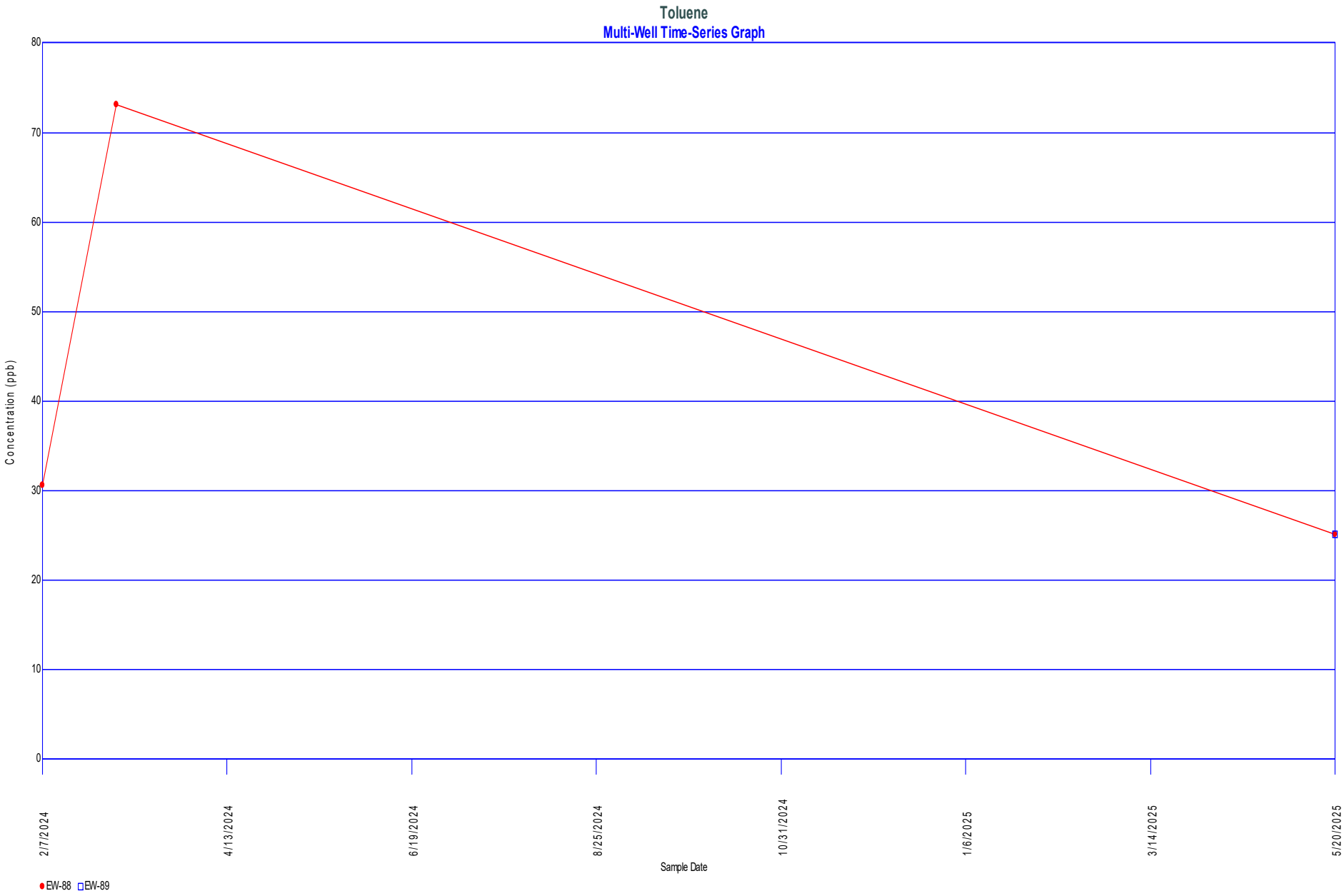

Tetrahydrofuran
Multi-Well Time-Series Graph
6000
5000
4000
3000
2000
1000
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

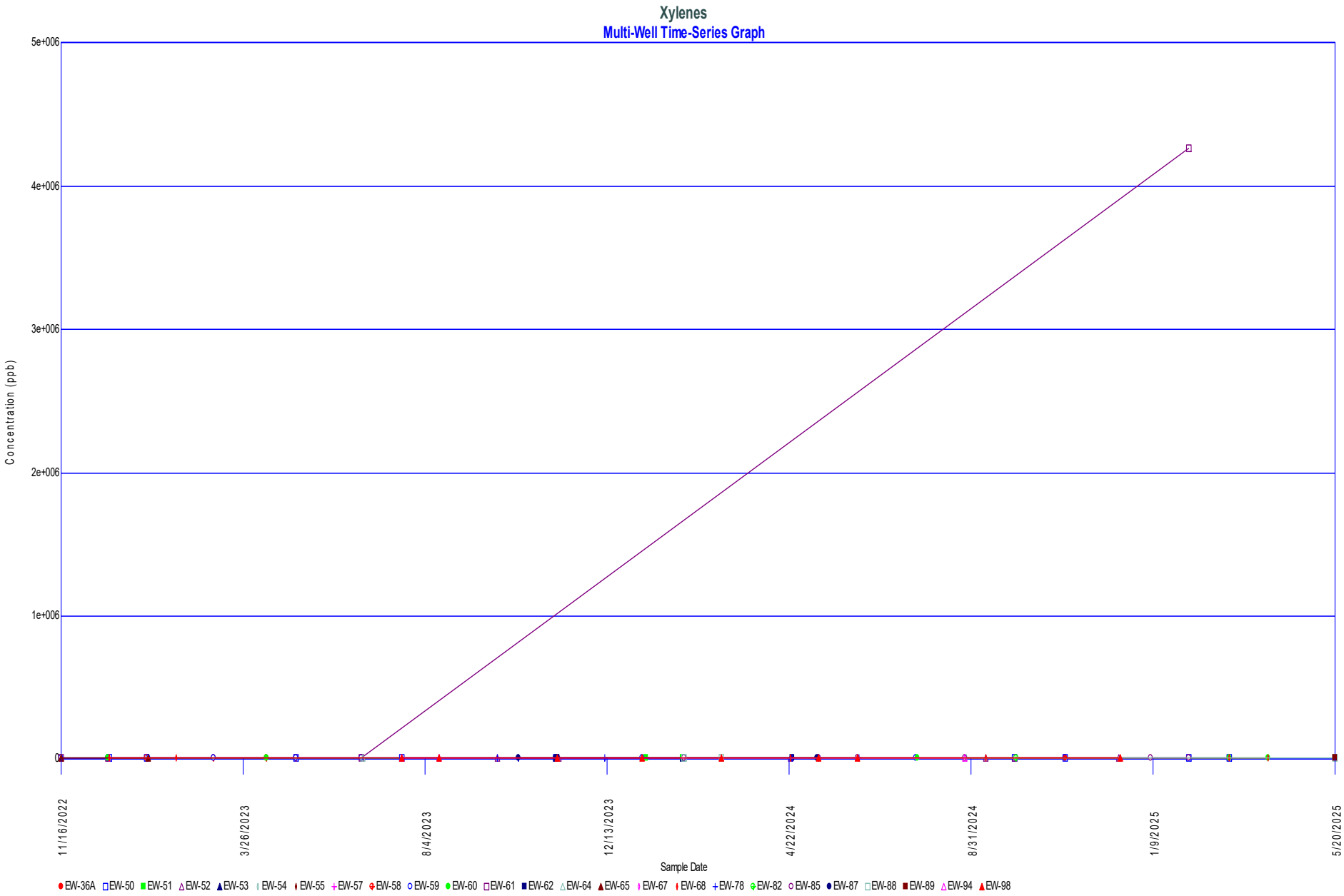

Toluene
Multi-Well Time-Series Graph
600000
500000
400000
300000
200000
100000
0
Concentration (ppb)
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

Toluene

Multi-Well Time-Series Graph

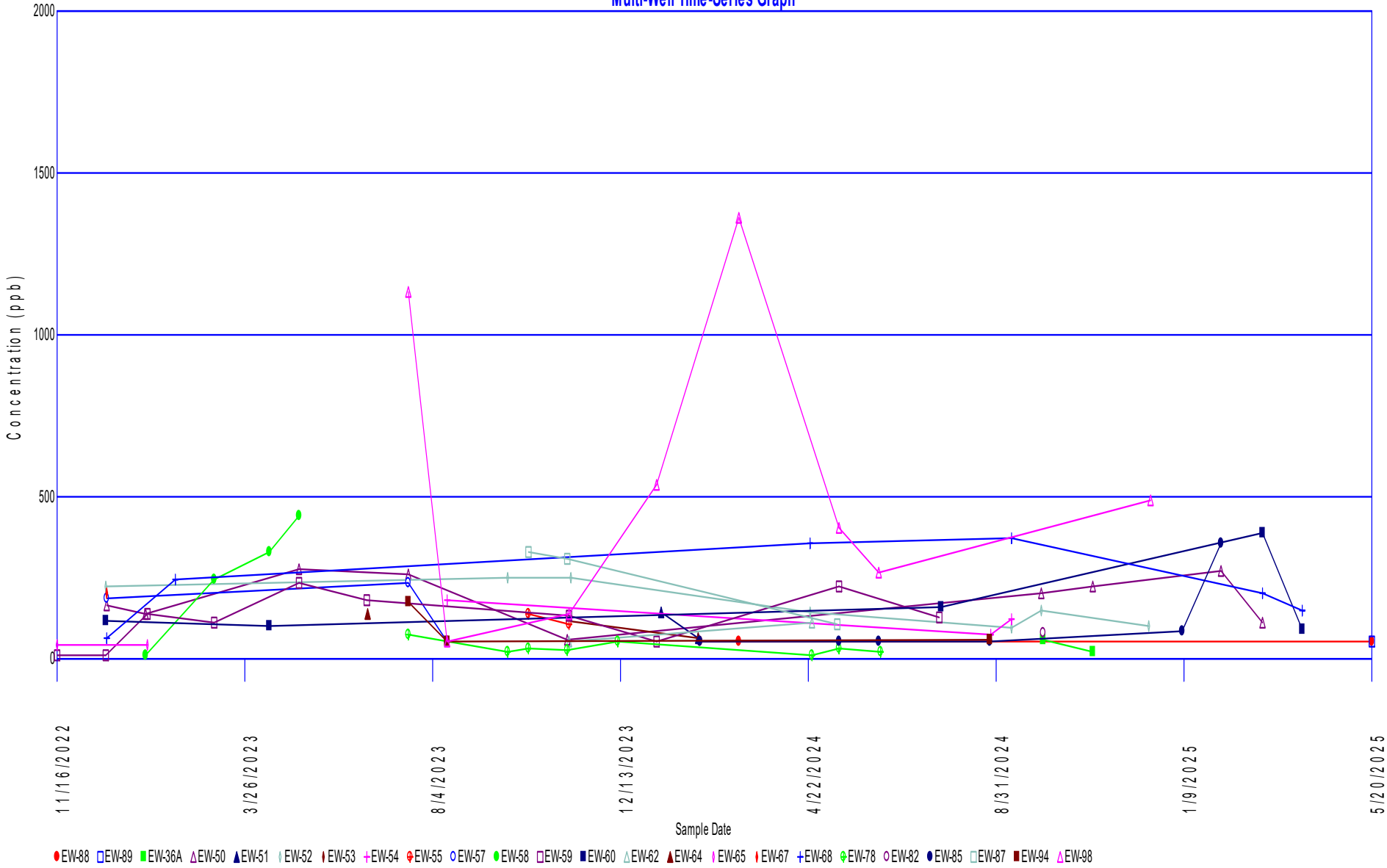


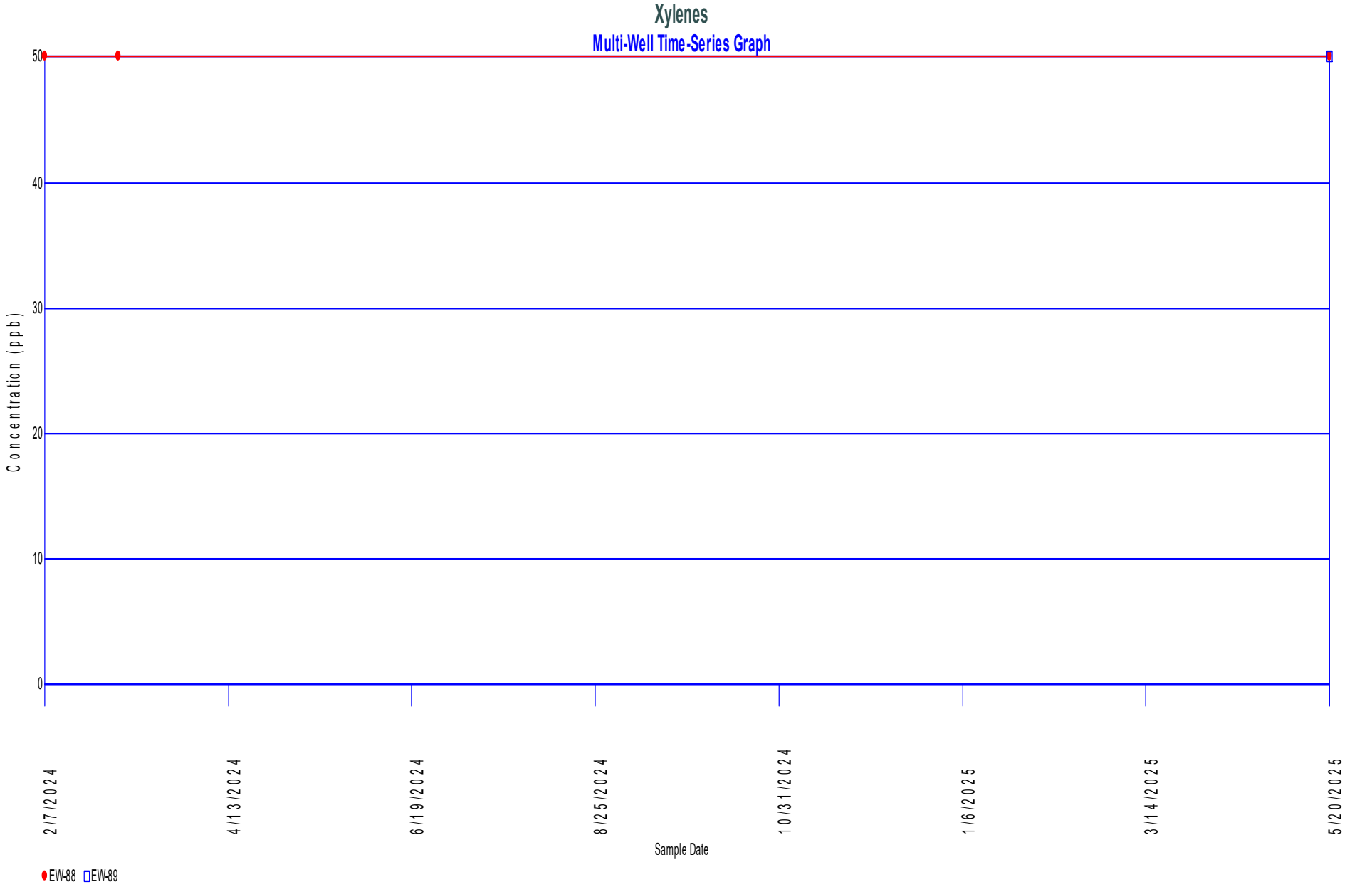

Toluene
Multi-Well Time-Series Graph
Concentration (ppb)
80
70
60
50
40
30
20
10
0
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89


Xylenes
Multi-Well Time-Series Graph
5e+006
4e+006
3e+006
2e+006
1e+006
0
Concentration (ppb)
11/16/2022
3/26/2023
8/4/2023
12/13/2023
4/22/2024
8/31/2024
1/9/2025
5/20/2025
Sample Date
EW-36A EW-50 EW-51 EW-52 EW-53 EW-54 EW-55 EW-57 EW-58 EW-59 EW-60 EW-61 EW-62 EW-64 EW-65 EW-67 EW-68 EW-78 EW-82 EW-85 EW-87 EW-88 EW-89 EW-94 EW-98

Xylenes

Multi-Well Time-Series Graph




Xylenes
Multi-Well Time-Series Graph
50
40
30
20
10
0
Concentration (ppb)
2/7/2024
4/13/2024
6/19/2024
8/25/2024
10/31/2024
1/6/2025
3/14/2025
5/20/2025
Sample Date
EW-88
EW-89

Appendix G

LFG Dewatering Pump Stroke Counter Data Analysis

Stroke Counter Data Analysis

During the monthly liquid depth measurement event and during LFG monitoring, SCS collected stroke counter data from the pumps installed in the GCCS extraction wells. These stroke counts were collected from 25 wells from May 21, 2025 to June 24, 2025. The recorded stroke count data from each well during April are included in Table G-1.

Based on the number of strokes in each well, SCS can estimate the number of gallons of liquid pumped from each well to assess pump performance. SCS assumed that each stroke from a float-style pneumatic pump correlates to approximately 0.3 gallons of liquid removed from the well. Blackhawk piston-style pumps remove approximately 0.11 gallons per stroke.

Table G - 1 Summary of Dual Extraction Well Pump Stroke Counter Data

Well	5/21/2025	6/24/2025	# of strokes between measurements	Estimated liquid removed (gallons)
EW33B			-	0
EW36A	459999	459999	-	0
EW49	79565	79565	-	0
EW50	1577699	1577970	271	81
EW52	1239186	1239186	-	0
EW53	3294540	3294540	-	0
EW55	73387	73387	-	0
EW59	3639040	3679152	40,112	12034
EW60	191283	245163	53,880	16164
EW61		103848	52,841	15852
EW62	214599	214599	-	0
EW65	106332	111452	5,120	1536
EW66	35486	38790	3,304	991
EW67	288744	288744	-	0
EW68	2661124	2662091	967	290
EW76			-	0
EW78	54639	77174	22,535	2524
EW82	631288	631288	-	0
EW85	312919	312919	-	0
EW87	340749	340749	-	0
EW88	332881	365317	32,436	3633
EW89	41203	229976	188,773	56632
EW93	1408232	1408232	-	0
EW94	1484006	1642543	158,537	17756
EW98	1886306	1886306	-	0
Total Estimated Liquid Removal				127,493