VIA ELECTRONIC MAIL

August 1, 2025

Deborah Goldblum
Remedial Project Manager
U.S. Environmental Protection Agency, Region III
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Philadelphia, PA 19103

Subject: Quarterly Progress Report No. 35
Former Kop-Flex Facility Site, Hanover, Maryland
USEPA ID No. MDD043373935
Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA

Dear Deborah:

On behalf of EMERSUB 16, LLC, a subsidiary of Emerson Electric Co. (Emerson), WSP USA, Inc. (WSP) is submitting this quarterly progress report describing the activities conducted in the 2nd Quarter of calendar year 2025 (April 1st through June 30th) as part of the corrective measures implementation at the former Kop-Flex, Inc. facility property located at 7555 Harmans Road (Site) in Hanover, Maryland. The Site is identical to the area described as the "Facility" in the Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA (Consent Order). The report also describes the activities planned for the 3rd Quarter of calendar year 2025 (July 1st through September 30th).

This progress report is being submitted to the U.S. Environmental Protection Agency (EPA) pursuant to Section VI.C.3 of the Consent Order. Please note that, in addition to performing the work conducted under the Consent Order, EMERSUB 16 continues to perform the remedial activities specified in the October 2015 Response Action Plan (RAP) approved by the Maryland Department of the Environment (MDE) Voluntary Cleanup Program, and that EMERSUB 16 copies USEPA on all submittals required under that program.

If you have any questions, please do not hesitate to contact me at 703-709-6500.

Kind regards,

Robert E. Johnson

Robert E. Johnson
Vice President – Earth & Environment

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Encl.

cc: Mrs. Lisa Douglas, EMERSUB 16 LLC
Mr. Steve Clarke, EMERSUB 16 LLC
Mr. Tate Stevens, Voluntary Cleanup Program Section, MDE
Mr. Brian Deitz, Site Assessment and Remediation Division, MDE

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CERTIFICATION

I certify that the information contained in or accompanying this quarterly progress report is true, accurate, and complete.

As to those portions of this quarterly progress report for which I cannot personally verify their accuracy, I certify under penalty of law that this quarterly report and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature: Steph L. Cl

Name: Stephen L. Clarke

Title: President of EMERSUB 16, LLC

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Site Name: Former Kop-Flex Inc.
Site Address: 7555 Harmans Road
Hanover, Maryland 21077

Consultant: WSP USA Inc.
Address: 13530 Dulles Technology Drive, Suite 300
Herndon, Virginia 20171
Phone No.: (703) 709-6500

Project Coordinator: Eric Johnson
Alternate: Lisa Kelly

1.0 ACTIVITIES COMPLETED DURING APRIL 2025 – JUNE 2025 REPORTING PERIOD

1.1 HYDRAULIC CONTAINMENT SYSTEM OPERATION

- The hydraulic containment system (System) operated for 27 of the 91 days during the second quarter of 2025, which equates to a 30% run-time efficiency over this 3-month period. There was an unanticipated system shutdown from April 11, 2025, through April 28, 2025, (18 days) due to problems with one of the components for the System's programmable logic controls. The malfunctioning component was replaced on April 29, 2025, by WSP's operation and maintenance (O&M) contractor. In addition, a planned extended shutdown occurred between April 30, 2025, and June 16, 2025, for the *ex-situ* chemical cleaning of the ion exchange treatment resin to remove accumulated organic foulants and other constituents from the media. (A description of the resin cleaning activities is provided in Section 1.2 below). The System resumed continuous operation on June 16, 2025, after completion of the post-resin cleaning activities and dissipation of the residual cleaning chemical effects on the pH of the treated water.
- A total of approximately 2.14 million gallons of impacted groundwater were extracted and treated during the second quarter of 2025, with a combined average withdrawal rate of 59 gallons per minute (GPM) when fully operational. This combined flow is below typical flow, which has averaged 68 GPM over the operational lifetime of the System. The below average withdrawal rate during the second quarter of 2025 is related to a slightly lower groundwater extraction from shallow recovery wells RW-1S and RW-2S, and deep well RW-1D compared to historical rates. WSP will attempt to increase pumping from these wells during the third quarter of 2025 to bring these withdrawal rates closer to their previous rates.
- Effluent samples were collected for chemical analysis in accordance with the requirements specified in the National Pollutant Discharge Elimination System (NPDES) Permit for the System during the months of operation (April and June). The System did not operate in May 2025; therefore, no effluent sample was collected. All monitoring parameters met the limits set forth in the NPDES permit. The effluent sample collected in April 2025 had a 1,4-dioxane concentration of 17.4 micrograms per liter (µg/L), which was slightly above the site-specific cleanup level of 15 µg/L. WSP notified the USEPA and MDE Voluntary Cleanup Program of the 1,4-dioxane level in the April effluent sample via a May 28, 2025, email communication.

  As discussed in the first quarter of 2025 progress report, slightly elevated levels of total copper were detected in the effluent samples collected in the fall of 2024 and January 2025. The total copper concentration in April 2025 (4.5 µg/L) and June 2025 (2.3 µg/L) samples were below the NPDES Permit daily maximum and monthly average limitations. WSP conducted additional sampling during the reporting period to further assess the contributions of total copper to the water processed through segments of the treatment system. The results of these sampling activities are summarized in Section 1.3 below.
- To monitor chlorinated volatile organic compounds (CVOCs) and 1,4-dioxane mass removal and treatment efficiency by the System, samples of both the influent and effluent were collected and analyzed during the reporting period. A quarterly influent

sample was collected in April. Monthly effluent samples were collected during the operating months of the second quarter of 2025 (April and June) in accordance with the NPDES Permit. The concentration of total CVOCs (279.7 µg/L) and 1,4-dioxane (75.4 µg/L) in the April influent sample were similar to the influent concentrations present in the January 2025 samples and within range of historical levels of total concentrations. By the end of May 2025, an estimated total of 563.5 pounds of CVOCs and 222.5 pounds of 1,4-dioxane have been recovered from the impacted portion of the Lower Patapsco aquifer.

No CVOCs were detected at a concentration above the method reporting limits in both the April 2025 and June 2025 effluent samples. The concentration of 1,4-dioxane was measured at 17.4 µg/L in the April 2025 sample and was not detected above the method reporting limit of 1.0 µg/L in the June 2025 sample. The June sample was collected after completion of the *ex-situ* resin cleaning activities. As described earlier in this section, the 1,4-dioxane level in April 2025 was above the site-specific cleanup level of 15 µg/L. Based on comparison of the 1,4-dioxane concentrations in the effluent samples collected before and after the resin cleaning, this O&M activity appears to have improved the 1,4-dioxane absorption capacity of the ion exchange media, which should result in reduced concentrations of 1,4-dioxane in the effluent stream.

1.2 RESIN CLEANING EVENT

- It had become apparent that fouling of the resin by natural organic carbon (NOC) constituents was beginning to affect its ability to remove contaminants from the extracted groundwater, with operational monitoring indicating a trend of increasing 1,4-dioxane concentrations in the effluent samples. These levels were gradually creeping upwards, approaching the site-specific cleanup level of 15 µg/L. This condition prompted the need for the performance of a cleaning event to restore the adsorptive capacity of the treatment media and ensure ongoing permit compliance. As during previous events, WSP retained Recirculation Technologies LLC (RTI) to perform the onsite *ex-situ* cleaning of the resin.
- In preparation for the resin cleaning activities, the System was shut down on April 30, 2025, to allow for the steam regeneration of both resin vessels to remove any Site-related VOCs and 1,4-dioxane from the media. The resin cleaning event for the AmberSorb™ 560 resin vessels, T-1100 and T-1200, commenced on the weekend of May 3-4, 2025. On May 3rd, the resin was removed from the vessels and transferred to separate tanks on RTI's mobile cleaning trailer. The resin was cleaned by adding heated caustic solution to the tanks, agitating the mixture using compressed air, and then transferring the "spent" caustic solution to a double-walled frac tank for subsequent management. This process was repeated multiple times for the resin from each vessel, after which the cleaned resin was returned to the vessels.
- During the week of May 5th, the cleaned resin in each vessel was regenerated twice to desorb additional organic carbon foulants and remove residual caustic from the media. The condensate, along with the quench and rinse water generated during these regenerations, was transferred to the double-walled mini-frac tank because of the elevated pH and brownish color of the water, which indicated the continued removal of NOC constituents from the resin at relatively high concentrations. Following the completion of the back-to-back regenerations for each vessel, controlled operation of the System began on June 9, 2025. Given the continued presence of residual caustic on the resin, it was determined that hydrochloric acid would need to be temporarily added to the System effluent to lower the pH within the discharge Permit limits. Manual operation of the System was conducted on June 9th and June 16th to allow for the controlled addition of the acid to ensure compliance with the effluent limitations. Normal, automated operation of the System, with caustic addition for pH adjustment, resumed on the afternoon of June 16, 2025.
- A sample of the wastewater generated during the resin cleaning event and contained in the mini-frac tank was collected on May 14, 2025, and submitted to the Phase Separation Science, Inc. laboratory located in Baltimore, Maryland for chemical characterization purposes. Field parameters (pH and temperature) were measured onsite using a calibrated water quality meter at the time of the sampling activities. The resin cleaning wastewater was subsequently discharged to the sanitary sewer system under EMERSUB 16's Wastewater Discharge Permit issued by the Anne Arundel County Pre-Treatment Program.

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1.3 ADDITIONAL EVALUATION OF COPPER LEVELS IN PROCESS WATER FLOW

1.3.1 APRIL 2025 SAMPLING RESULTS

- As discussed in the previous quarterly progress report, WSP conducted sampling activities during the first quarter of 2025 to determine if the elevated total copper concentrations in the recent effluent samples were attributed to the extracted groundwater or a segment(s) of the treatment process. Based on the levels of total and dissolved copper in water samples collected at various points along the process flow, it appears that some variable process(s) in the latter stages of the treatment train is causing (a) variable total copper loading and (b) a reduction in the dissolved copper concentrations in the System effluent.
- Given the potential for a contributing source(s) of copper along the treatment process and fluctuations in total copper concentrations in the water flow, another round of unfiltered (total) and filtered (dissolved) samples was collected from the four sample points (VSP-1 through VSP-4) along the treatment train on April 3, 2025. Because softened tap water is used to quench and rinse the resin during each regeneration and then routed to the flow equalization tank where it mixes with the extracted groundwater influent, unfiltered and filtered tap water samples were also collected from the sink in the treatment building to evaluate this water as a potential contributing source to the copper measured in effluent samples. A second tap water sample was collected from the sink on April 29, 2025, to assess potential variability in the copper levels in the potable water provided by the public utility. No water samples were collected from the recovery wells during the April 2025 sampling activities. All samples were delivered to the Phase Separation Science (PSS) laboratory in Baltimore, Maryland and were analyzed for total and dissolved copper by USEPA Method 200.8.
- The laboratory analytical reports for the April 2025 sampling event are included in Enclosure A. The results for both the process water and tap water samples are provided in Table 1.
- The concentration of total copper in the samples collected from the treatment process sample ports ranged from 4.5 µg/L in the sample collected from VSP-4 (effluent) to 6 µg/L in the sample collected from VSP-3. The concentration of dissolved copper in the samples ranged from 3.9 µg/L in the sample collected from VSP-4 (effluent) to 5.4 µg/L in the sample collected from VSP-3. The total copper concentrations for all treatment system sample locations were below the Permit limitations. The April 2025 results from the treatment system show consistent total and dissolved copper concentrations at sampling points VSP-1, VSP-2, and VSP-3 upstream of the resin and a slight reduction in the copper levels between VSP-3 and the effluent sampling port (VSP-4). The decrease in the total copper concentration from the VSP-3 to VSP-4 sampling points differs from the results for the January 2025 samples. The results for the April 2025 process flow samples support the conclusions from the previous (January 2025) event that the latter portion of the treatment train between VSP-3 and VSP-4 impact the copper loading, resulting in fluctuating total copper levels and reduced dissolved copper levels in the effluent (discharge).
- Total and dissolved copper in the early April tap water sample measured 39.6 µg/L and 8.4 µg/L, respectively. and the sample collected in late April had a total copper concentration of 49.1 µg/L and dissolved copper level of 33.8 µg/L (Table 1). This data indicates the tap water as a likely source of the copper to the process flow through and System discharge, though the reason for the higher proportion of dissolved copper in the April 29th sample (69%) compared to the April 3rd sample (21%) is uncertain. A review of the most recent Water Quality Report issued by the Anne Arundel County indicates the copper concentration detected in the tap water samples are consistent with levels present in the potable water provided by the public water utility. It is also possible the copper levels in the tap water could include contributions from leaching of copper piping or other copper-containing components in the treatment building. No visible evidence of copper plumbing or other sources of copper have been identified in the treatment building, although, most of the piping is inaccessible for inspection.

1.3.2 JUNE 2025 SAMPLING RESULTS

- Since water softener salt can remove metals such as copper during treatment, a sample of the softened tap water used during the quenching and rinsing of the regenerated resin was collected on June 19, 2025, to further evaluate the amount of copper in water passing through the treatment media upstream of the effluent (VSP-4) sampling point. As with previous sampling events, the soft water sample was submitted to the PSS lab in Baltimore and analyzed for total and dissolved copper using USEPA Method 200.8.

– The laboratory analytical report for the June 2025 soft water sample is included in Enclosure B. The total copper concentration in this sample was 44.7 µg/L while the dissolved copper level was 13.5 µg/L. The concentrations detected for the different fractions are consistent with the levels measured in the tap water samples from the sink (see Table 1), suggesting the water softener has either no or very limited effect on the copper present in the soft water used to quench and rinse the resin during regeneration. Based on the sample data, it appears that any removal of copper from the potable water is most likely focused on the dissolved copper species rather than the insoluble (*i.e.,* total) fraction present in the water.

1.4 GROUNDWATER LEVEL MONITORING

– Groundwater level monitoring is conducted semi-annually to gather data to evaluate the hydraulic head conditions in both the shallow and deep zones of the Lower Patapsco aquifer at the Site. Based on historical water level data collected under non-remedial pumping conditions, groundwater in the shallow zone of the Lower Patapsco aquifer flows to the north and west toward Stony Run, while flow paths are to the south-southeast in the deep (confined) zone of the aquifer.

During the reporting period, water level measurements were collected from the shallow and deep monitoring wells and all recovery well piezometers except RW-2D on June 15 and 16, 2025. The water level data for this and previous measurement rounds is provided in Table 2. A measurement could not be obtained at the RW-2D piezometer due to a malfunction of the water level indicator. The water level measurements were collected under non-pumping conditions.

– Contour maps depicting the water table (Figure 1) and piezometric surface in the lower portion of the shallow zone (Figure 2) were generated from the June 2025 measurements. Evaluation of the groundwater elevations and gradients in the shallow zone are discussed separately below.

– The contouring of the groundwater elevations determined from the June 2025 data showed spatial variations in the water table and piezometric surface for the lower portion of the shallow zone that closely resemble those from previous measurement rounds collected during system downtime.

The water table contour map (Figure 1) indicates a generally westward flow of groundwater in the uppermost portion of the shallow zone of the Lower Patapsco aquifer across the Site. A slight rise of the water table in the area around MW-09 is interpreted to reflect the enhanced recharge (movement of water downward through the soils) to the groundwater system, which is associated with the routing of surface water runoff to the small storm water management area (SWMA) located in the east-central portion of the Site. The enhanced infiltration of runoff in this SWMA, compared to the surrounding paved area, causes the localized increase in the water table elevation in the immediate area, and results in localized groundwater flow to the east away from the SWMA towards the eastern Site boundary and adjoining William-Scotsman property.

The cessation of pumping resulted in the disappearance of the pronounced head changes, or cone of depression, within the permeable sand deposits comprising the lower portion of the shallow zone of the Lower Patapsco aquifer in the western portion of the Site (Figure 2). Based on the head contours, groundwater flows in a generally northwestward direction toward Stony Run. However, a higher water level elevation at well MW-03 results in a slight depression in the piezometric surface around wells MW-42 and MW-39, which are screened in an area with abundant clayey deposits. The northwestern flow of groundwater in the shallow zone differs from the southerly direction of groundwater movement in the deep confined zone.

– The potentiometric surface contour map for the deep, confined zone of the Lower Patapsco aquifer generated from the June 2025 water level data is provided in Figure 3. As with the shallow zone, these data reflect the recovery of the hydraulic heads to a non-pumping condition following shutdown of the System at the end of April 2025. The hydraulic head contours generated from the data demonstrate south to south-southeast flow pathways for groundwater in this deep confined zone. The southward groundwater flow direction is consistent with other potentiometric surface contour maps developed from water level data collected under non-pumping conditions.

1.5 GROUNDWATER QUALITY MONITORING

- In accordance with the Groundwater Monitoring Plan, groundwater quality samples were collected on June 15, 2025, from all onsite monitoring wells identified for semi-annual sampling. Samples were also obtained of the groundwater discharge from the shallow and deep recovery wells on June 16th, after the system was restarted, to assess the contaminant concentrations at each extraction point.

- Groundwater samples from the shallow and deep monitoring wells were collected using 38-inch (3.2-foot) long HydraSleeve™ samplers. Wells MW-16 was fitted with a longer (4.3-foot) sampler to provide the necessary volume to enable the collection of a matrix spike/matrix spike duplicate (MS/MSD) sample. The HydraSleeves™ were suspended with the top, or inlet port, of the sampler placed at the midpoint of the 10-foot screened interval in each well. Given this deployment depth, retrieval would fill the sampler through the overlying interval of the well screen equal to the length of the sampler (Table 3). Samples were obtained by carefully removing the HydraSleeve™ sampler from the well and decanting a representative portion of the collected water into the laboratory-supplied containers. A separate aliquot of sample was then poured into the sampling cup of a hand-held, multi-parameter water quality meter to measure temperature, pH, specific conductance, and turbidity in the field. The results of these measurements for each sampling location are provided in Table 4. At wells MW-16 and MW-16D, which are designated for the collection of field quality control samples, insufficient volume was left over to collect field parameter measurements. Insufficient sample volume to measure field parameters was also encountered during the sampling at well MW-44.

  Samples of the groundwater discharge from on-line recovery wells were collected via sampling ports located in the well head piping. A small amount of water was first purged from the sampling port and collected in a 5-gallon bucket followed by the collection of the sample directly into the containers.

  All water samples were submitted to the Australian Laboratory Services (ALS) Global laboratory in Middletown, Pennsylvania, and analyzed for VOCs using USEPA SW-846 Test Method 8260D and 1,4-dioxane using USEPA Test Method 8270E with selected ion monitoring.

- Analytical results for the site-related CVOCs and 1,4-dioxane are summarized in Table 5 for the monitoring well samples and in Table 6 for the recovery well discharge samples. Historical (December 2016 to present) data for the monitoring well samples are provided in Enclosure C. A copy of the certified laboratory analytical reports for all samples is included in Enclosure D.

- The distribution of CVOC and 1,4-dioxane concentrations in the June 2025 groundwater samples collected from the monitoring wells in the shallow zone of the Lower Patapsco Aquifer tended to vary slightly relative to levels detected in the November 2024 samples. As with previous sampling events, the highest concentrations of site-related contaminants of concern (COCs) were detected in the sample collected from MW-16, which had a total concentration of 3,429 µg/l COCs (Table 5; Figure 4). This total concentration reflects a slight increase in the COC level from November 2024, with concentrations of 1,1-dichloroethane (1,1-DCA), 1,4-dioxane, and 1,1,1-trichlorothane (1,1,1-TCA) all increasing between 2 and 4 percent. In contrast, the concentration of 1,1-dichlorothene (1,1-DCE; 1,470 µg/l) decreased slightly (1.3 percent) from the November 2024 measurement.

  In the eastern part of the Site upgradient of the recovery wells, the results of the sample collected from MW-04R continue to indicate low concentrations of 1,1-DCA (34.0 µg/l), 1,1-DCE (67.7 µg/l), and 1,4-dioxane (34.7 µg/l) (Figure 4). Concentrations of 1,1-DCA and 1,1-DCE have fluctuated by approximately 15 percent or less, with slightly greater variations (6 to 50 percent) in the concentrations of 1,4-dioxane. Generally, these variations are less than those that were historically observed in the previous monitoring well MW-04 and may reflect less influence of water moving downward from the SWMA through the soil to the water table Concentrations of 1,1-DCE (42.9 µg/l) continue to exceed its groundwater quality criterion at well MW-09, which is located downgradient (northwest) of MW-04R and the SWMA. The 1,1-DCE concentration exhibited a notable increase from the level detected in the previous (November 2024) sample, as did the concentrations for 1,1-DCA and 1,4-dixoane – although these latter two compounds have concentrations below the evaluation criteria. At the deeper MW-20 location, concentrations of 1,1-DCA (407 µg/l) and 1,1-DCE (301 µg/l), and 1,4-dioxane (749 µg/l) increased between November 2024 and June 2025. The concentrations of these COCs are higher than levels detected prior to December 2023. A possible explanation for higher CVOC levels is the change in both the sampling interval depth and length of the sampler compared to historical sampling events, with higher concentrations in the groundwater flowing through the upper portion of the screened interval compared to the middle portion of the screen. Vertical changes in the CVOC concentrations could also be related to subtle differences in the sandy aquifer materials within the screened interval and matrix diffusion effects from clayey deposits.

Generally lower COC concentrations were detected in samples from the shallow monitoring wells in the western part of the Site where the recovery wells are in operation (Figure 4). Concentrations of one or more site-related COCs exceeded the groundwater quality criteria in the samples from wells MW-38R and MW-43. At the MW-43 location north of the recovery wells, concentrations of 1,1-DCA, 1,1-DCE, and 1,4-dioxane remain relatively unchanged during the last six sampling events (November 2022 through June 2025). Overall, the sample results reflect a trend of decreasing VOC concentrations in this well throughout its sampling history. At the MW-44 location south of the recovery wells, concentrations of COCs have also decreased from 2019 to the present. No COCs exceeded the evaluation criteria in the June 2025 sample from this well.

– For the deep monitoring well samples, the CVOC and 1,4-dioxane concentrations detected in the June 2025 samples are generally similar to levels detected historically with some exceptions (Figure 5). At the MW-16D location, which has the highest concentrations of site-related COCs, the latest results showed slight increases in 1,1-DCA (17.7 µg/l) and 1,1-DCE (74.4 µg/l) relative to the November 2024 sample. The magnitude of these increases reflects typical seasonal fluctuations in the groundwater quality, and the latest results are consistent with the historical trend of decreasing concentrations of COCs at this location throughout its sampling history. The concentration of 1,4-dioxane (22.4 µg/l) also increased slightly compared to the November 2024 (21.6 µg/l) sampling event.

  In the upgradient portion of the plume (MW-23D), the concentration of 1,1-DCA (34.6 µg/l) and 1,1-DCE (139 µg/l) increased by 72 percent and 79 percent, respectively, between November 2024 and June 2025. Overall, these increases represent a return to the typically observed range of values after historically low concentrations were detected in November 2024. Thus, it is possible the declining concentrations in 2024 were transient in nature and not representative of a change in the long-term trend at this location, where concentrations of these two compounds have been mostly stable throughout the sampling history. The concentration of 1,4-dioxane decreased slightly from 34.1 µg/l to 32.4 µg/l.

  In the southern portion of the Site, the concentrations of 1,1-DCE (16.4 µg/l) and 1,4-dioxane (6.0 µg/l) in the June 2025 sample from well MW-21D decreased relative to the November 2024 event. Concentrations also decreased at the MW-22D location, which is situated near the southeastern corner of the Site, where 1,1-DCE (8.3 µg/l) slightly exceeded the comparative criterion and 1,4-dioxane (1.7 µg/l) was below it respective numerical value. Overall, these decreases appear to be comparable to other fluctuations observed since 2021 and may be related to perturbations in the flow field as the System goes on- and offline.

– Total concentrations of detectable CVOCs and 1,4-dioxane in the June samples from recovery wells RW-1S and RW-2S were 1,783 µg/l and 2,012 µg/l, respectively, which are higher than the concentrations detected in the previous samples collected in November 2024. The total COC concentration in the sample from deep recovery well RW-1D (407 µg/l) was lower than the level in the previous (November 2024) sample (567.5 µg/l), with 1,1-DCA (62.1 µg/l), 1,1-DCE (284 µg/l), and 1,4-dioxane (39.7 µg/l) being detected at the highest concentrations (Table 6; Figure 6). Recovery well RW-2D, which was not sampled in November 2024, had a total COC concentration of 189 µg/l.

2.0 PLANNED ONSITE ACTIVITIES FOR THE THIRD QUARTER OF 2025

– Continue with the operation and as needed maintenance activities for the System, along with the collection and assessment of operational data to evaluate System performance.

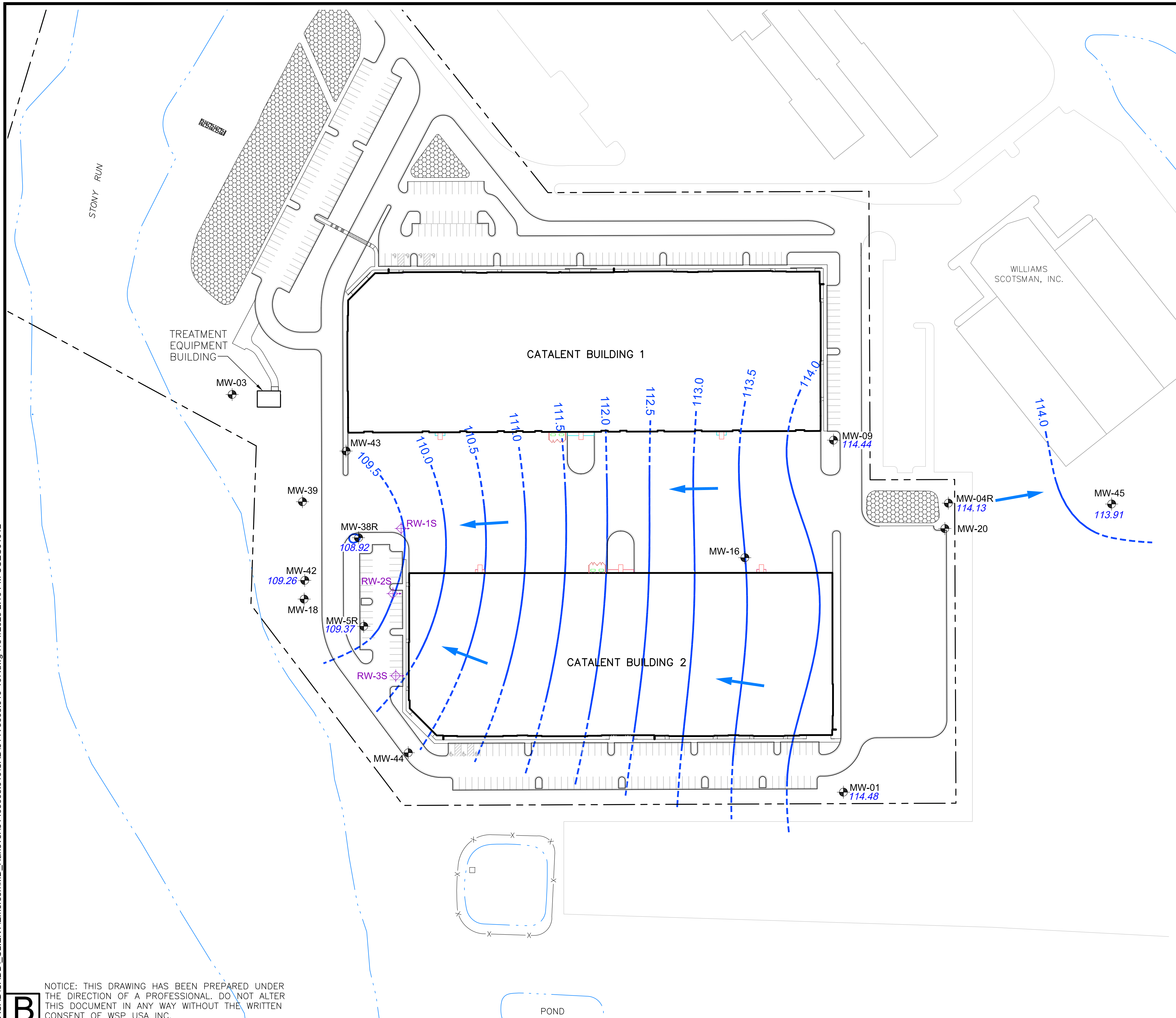
– Conduct the required monthly effluent monitoring and reporting pursuant to the NPDES Permit.

– Submit the semi-annual water use report for the January 2025 through June 2025 period to the MDE Water Supply Program vis the e-reporting portal.

3.0 KEY PERSONNEL/FACILITY CHANGES

During the second quarter of 2025, EMERSUB 16 designated Lisa Douglas as the new project manager to oversee the completion of the corrective action at the Site. Ms. Douglas has been working with the previous EMERSUB 16 project manager, Steve Clarke, and WSP to gain an understanding of the Site history and corrective measures being implemented for the soil and groundwater.

FIGURES



LEGEND

- PROPERTY LINE
- STREAM/EDGE OF WATER
- FENCE LINE
- STORMWATER MANAGEMENT AREA
- SHALLOW MONITORING WELL
- SHALLOW EXTRACTION WELL
- 109.37 GROUNDWATER SURFACE ELEVATION (FEET MSL)
- GROUNDWATER SURFACE CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW PATH

NOTE:

THE JUNE 2025 GROUNDWATER ELEVATION CONTOURS ARE REPRESENTATIVE OF NON-PUMPING CONDITIONS.

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SCALE IN FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

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Drawn By: EGC
Checked: EMR 7/30/2025
Approved: [signature]
DWG Name: 314V5608.010-107

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 1

WATER TABLE CONTOUR MAP, PUMPING CONDITIONS (JUNE 2025)

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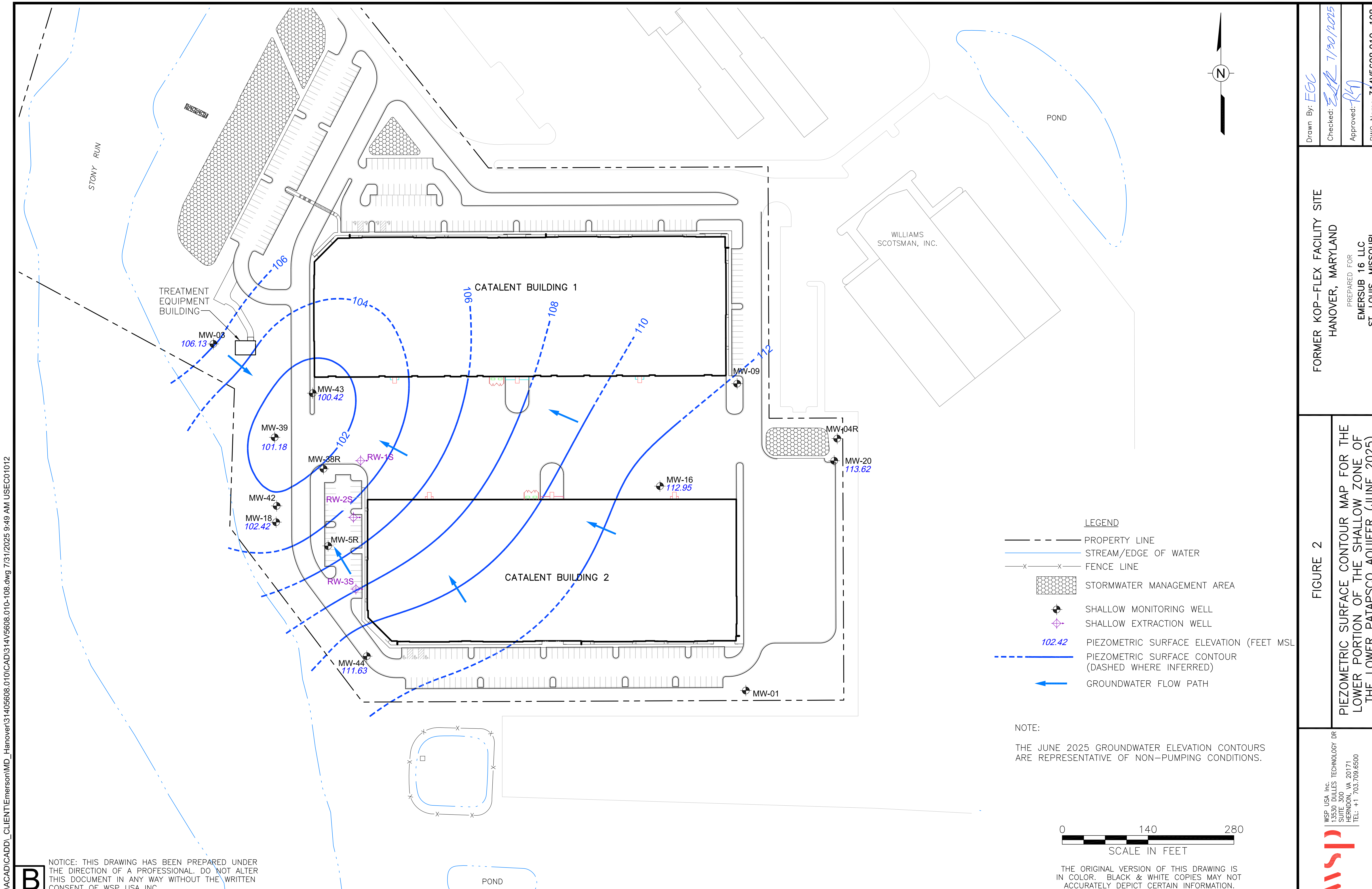
wsp



STONY RUN
TREATMENT EQUIPMENT BUILDING
CATALENT BUILDING 1
CATALENT BUILDING 2
WILLIAMS SCOTSMAN, INC.
POND
POND
N
MW-03
106.13
MW-43
100.42
MW-39
101.18
MW-38R
RW-1S
RW-2S
MW-42
MW-18
102.42
MW-5R
RW-3S
MW-44
111.63
MW-09
MW-04R
MW-20
113.62
MW-16
112.95
MW-01
102
104
106
106
108
110
112
LEGEND
PROPERTY LINE
STREAM/EDGE OF WATER
FENCE LINE
STORMWATER MANAGEMENT AREA
SHALLOW MONITORING WELL
SHALLOW EXTRACTION WELL
102.42
PIEZOMETRIC SURFACE ELEVATION (FEET MSL)
PIEZOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
GROUNDWATER FLOW PATH
NOTE:
THE JUNE 2025 GROUNDWATER ELEVATION CONTOURS ARE REPRESENTATIVE OF NON–PUMPING CONDITIONS.
0
140
280
SCALE IN FEET
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B
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Drawn By: EGC
Checked: EJM 7/30/2025
Approved:
DWG Name: 314V5608.010-108
FORMER KOP–FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI
FIGURE 2
PIEZOMETRIC SURFACE CONTOUR MAP FOR THE LOWER PORTION OF THE SHALLOW ZONE OF THE LOWER PATAPSCO AQUIFER (JUNE 2025)
WSP USA Inc.
13530 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

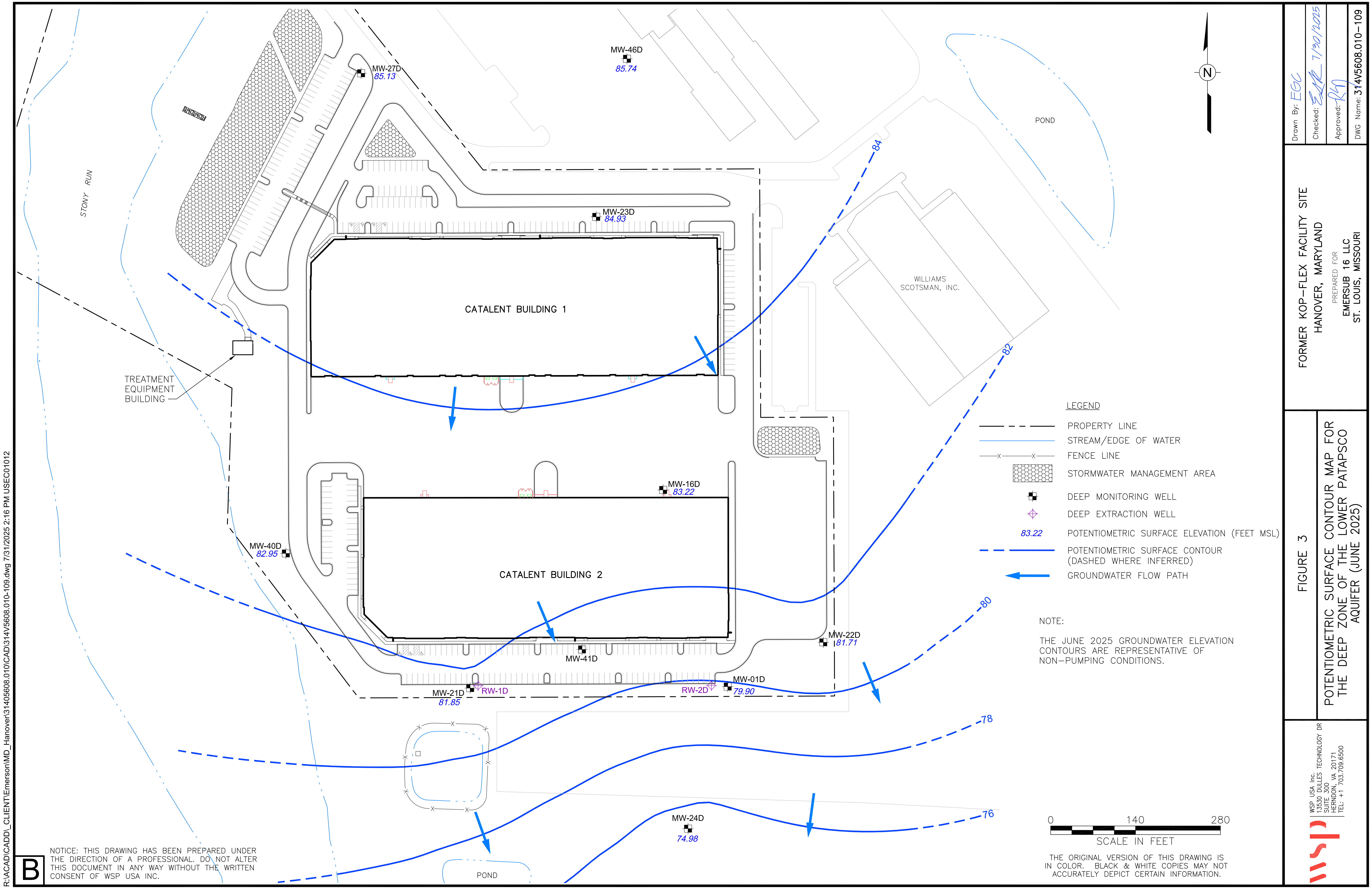
FIGURE 3
POTENTIOMETRIC SURFACE CONTOUR MAP FOR THE DEEP ZONE OF THE LOWER PATAPSCO AQUIFER (JUNE 2025)
FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI
Drawn By: EGC
Checked:
Approved:
DWG Name: 314V5608.010-109
WSP USA Inc.
13530 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500
CATALENT BUILDING 1
CATALENT BUILDING 2
WILLIAMS SCOTSMAN, INC.
POND
POND
STONY RUN
TREATMENT EQUIPMENT BUILDING
MW-46D
85.74
MW-27D
85.13
MW-23D
84.93
MW-16D
83.22
MW-40D
82.95
MW-22D
81.71
MW-41D
MW-01D
79.90
MW-21D
81.85
RW-1D
RW-2D
MW-24D
74.98
84
82
80
78
76
N
LEGEND
PROPERTY LINE
STREAM/EDGE OF WATER
FENCE LINE
STORMWATER MANAGEMENT AREA
DEEP MONITORING WELL
DEEP EXTRACTION WELL
83.22
POTENTIOMETRIC SURFACE ELEVATION (FEET MSL)
POTENTIOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
GROUNDWATER FLOW PATH
NOTE:
THE JUNE 2025 GROUNDWATER ELEVATION CONTOURS ARE REPRESENTATIVE OF NON-PUMPING CONDITIONS.
0
140
280
SCALE IN FEET
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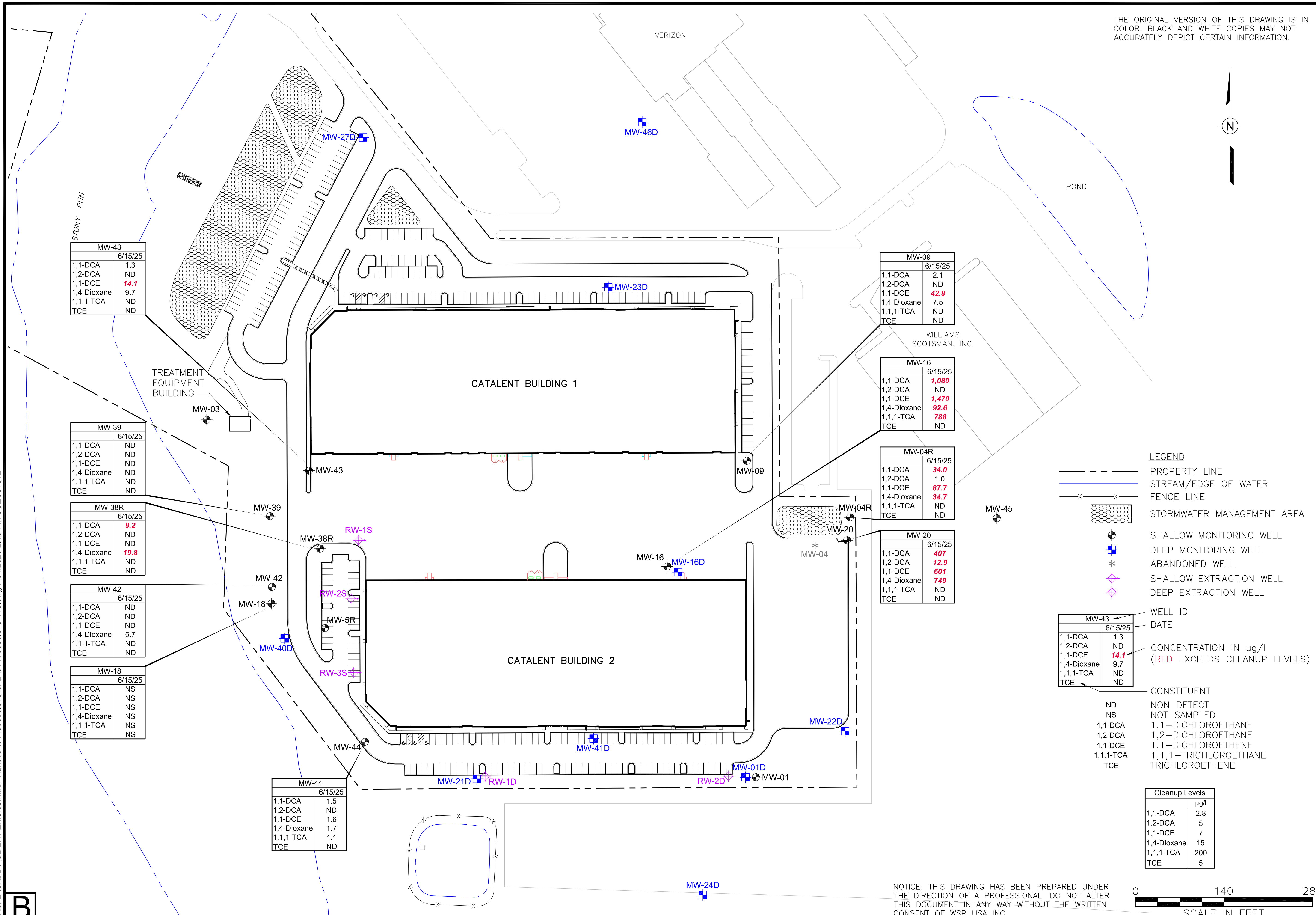
B
R:\ACAD\CADD_CLIENT\EmersonMD_Hanover\31405608.010\CAD\314V5608.010-109.dwg 7/31/2025 2:16 PM USEC01012



MW-43	6/15/25
1,1-DCA	1.3
1,2-DCA	ND
1,1-DCE	14.1
1,4-Dioxane	9.7
1,1,1-TCA	ND
TCE	ND

MW-39	6/15/25
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND
TCE	ND

MW-38R	6/15/25
1,1-DCA	9.2
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	19.8
1,1,1-TCA	ND
TCE	ND

MW-42	6/15/25
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	5.7
1,1,1-TCA	ND
TCE	ND

MW-18	6/15/25
1,1-DCA	NS
1,2-DCA	NS
1,1-DCE	NS
1,4-Dioxane	NS
1,1,1-TCA	NS
TCE	NS

MW-44	6/15/25
1,1-DCA	1.5
1,2-DCA	ND
1,1-DCE	1.6
1,4-Dioxane	1.7
1,1,1-TCA	1.1
TCE	ND

MW-09	6/15/25
1,1-DCA	2.1
1,2-DCA	ND
1,1-DCE	42.9
1,4-Dioxane	7.5
1,1,1-TCA	ND
TCE	ND

MW-16	6/15/25
1,1-DCA	1,080
1,2-DCA	ND
1,1-DCE	1,470
1,4-Dioxane	92.6
1,1,1-TCA	786
TCE	ND

MW-04R	6/15/25
1,1-DCA	34.0
1,2-DCA	1.0
1,1-DCE	67.7
1,4-Dioxane	34.7
1,1,1-TCA	ND
TCE	ND

MW-20	6/15/25
1,1-DCA	407
1,2-DCA	12.9
1,1-DCE	601
1,4-Dioxane	749
1,1,1-TCA	ND
TCE	ND

MW-43 (legend example)	6/15/25
1,1-DCA	1.3
1,2-DCA	ND
1,1-DCE	14.1
1,4-Dioxane	9.7
1,1,1-TCA	ND
TCE	ND

Cleanup Levels	µg/l
1,1-DCA	2.8
1,2-DCA	5
1,1-DCE	7
1,4-Dioxane	15
1,1,1-TCA	200
TCE	5

Drawn By: EGC
Checked: EAR 7/31/2025
Approved: [signature]
DWG Name: 314V5608.010-110

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND

PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 4

SAMPLING RESULTS FOR THE MONITORING WELLS SCREENED IN THE SHALLOW ZONE OF THE LOWER PATAPSCO AQUIFER (JUNE 2025)

WSP USA Inc.
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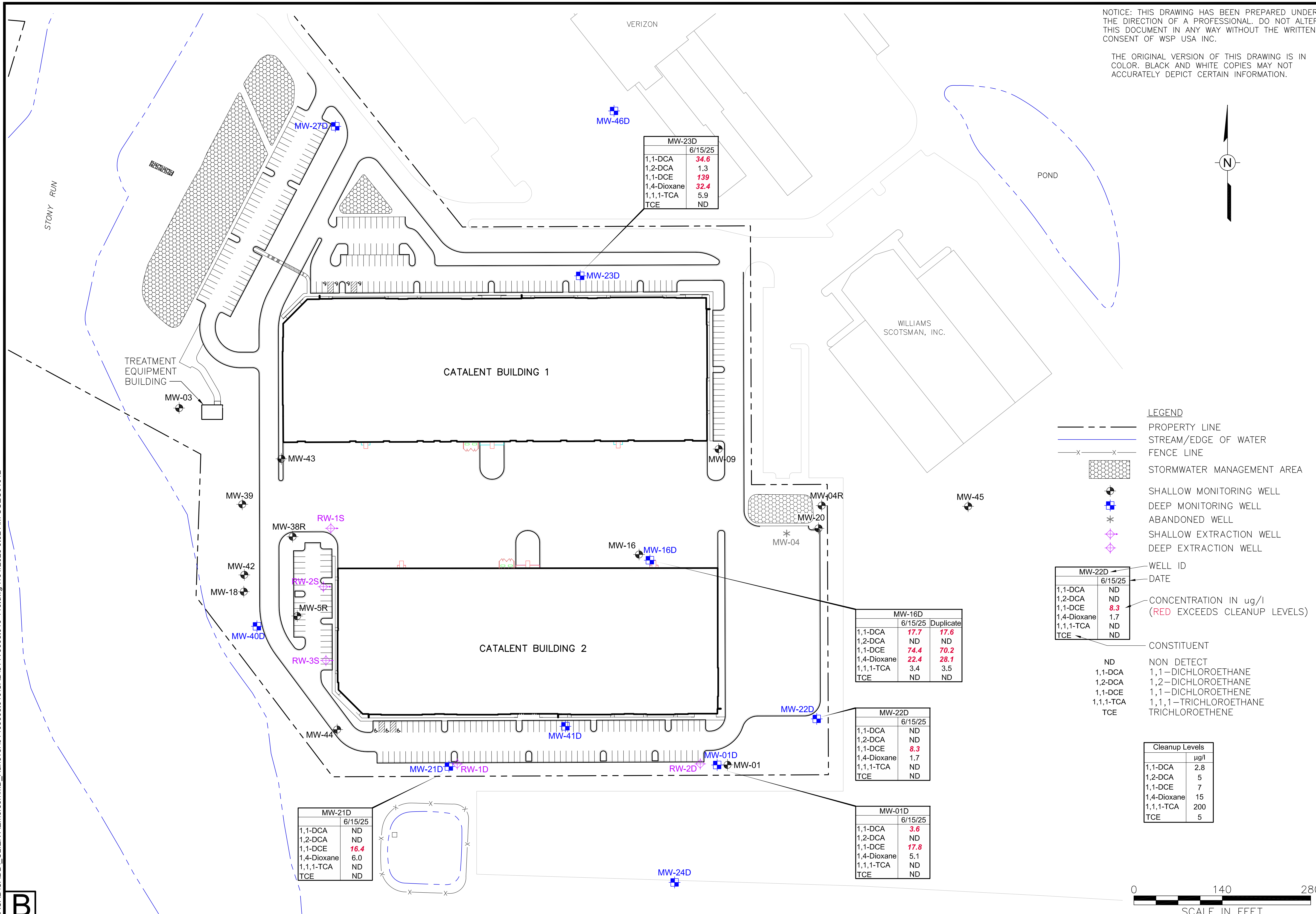

MW-23D	6/15/25
1,1-DCA	34.6
1,2-DCA	1.3
1,1-DCE	139
1,4-Dioxane	32.4
1,1,1-TCA	5.9
TCE	ND

MW-16D	6/15/25	Duplicate
1,1-DCA	17.7	17.6
1,2-DCA	ND	ND
1,1-DCE	74.4	70.2
1,4-Dioxane	22.4	28.1
1,1,1-TCA	3.4	3.5
TCE	ND	ND

MW-22D	6/15/25
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	8.3
1,4-Dioxane	1.7
1,1,1-TCA	ND
TCE	ND

MW-21D	6/15/25
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	16.4
1,4-Dioxane	6.0
1,1,1-TCA	ND
TCE	ND

MW-01D	6/15/25
1,1-DCA	3.6
1,2-DCA	ND
1,1-DCE	17.8
1,4-Dioxane	5.1
1,1,1-TCA	ND
TCE	ND

MW-22D	6/15/25
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	8.3
1,4-Dioxane	1.7
1,1,1-TCA	ND
TCE	ND

ND	NON DETECT
1,1-DCA	1,1–DICHLOROETHANE
1,2-DCA	1,2–DICHLOROETHANE
1,1-DCE	1,1–DICHLOROETHENE
1,1,1-TCA	1,1,1–TRICHLOROETHANE
TCE	TRICHLOROETHENE

Cleanup Levels	µg/l
1,1-DCA	2.8
1,2-DCA	5
1,1-DCE	7
1,4-Dioxane	15
1,1,1-TCA	200
TCE	5

Drawn By: EGC
Checked: EMR 7/31/2025
Approved: RH
DWG Name: 314V5608.010-110

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 5

SAMPLING RESULTS FOR THE MONITORING WELLS SCREENED IN THE DEEP ZONE OF THE LOWER PATAPSCO AQUIFER (JUNE 2025)

WSP USA Inc.
13530 DULLES TECHNOLOGY DR
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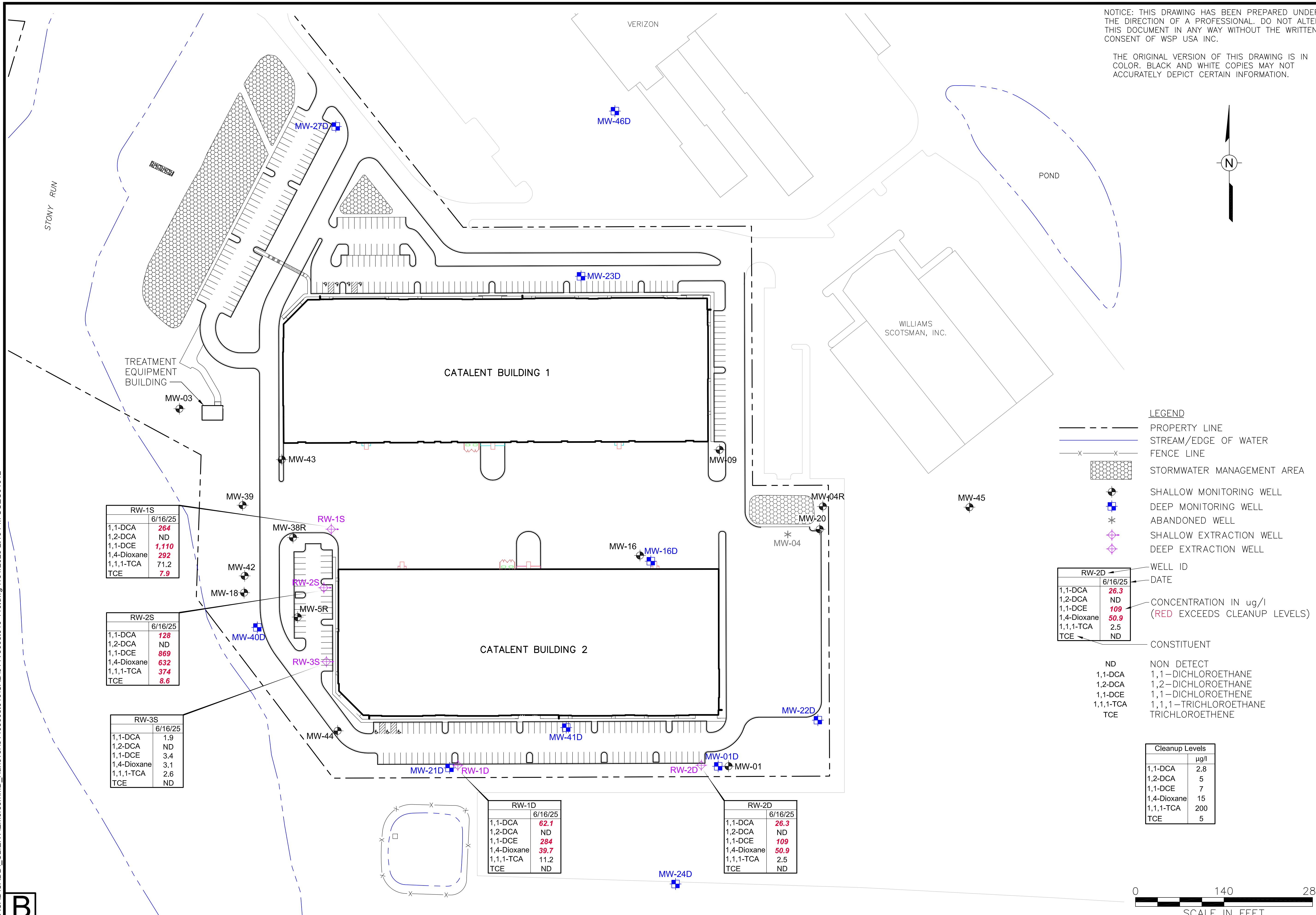
TEL: +1 703.709.6500



RW-1S	6/16/25
1,1-DCA	264
1,2-DCA	ND
1,1-DCE	1,110
1,4-Dioxane	292
1,1,1-TCA	71.2
TCE	7.9

RW-2S	6/16/25
1,1-DCA	128
1,2-DCA	ND
1,1-DCE	869
1,4-Dioxane	632
1,1,1-TCA	374
TCE	8.6

RW-3S	6/16/25
1,1-DCA	1.9
1,2-DCA	ND
1,1-DCE	3.4
1,4-Dioxane	3.1
1,1,1-TCA	2.6
TCE	ND

RW-1D	6/16/25
1,1-DCA	62.1
1,2-DCA	ND
1,1-DCE	284
1,4-Dioxane	39.7
1,1,1-TCA	11.2
TCE	ND

RW-2D	6/16/25
1,1-DCA	26.3
1,2-DCA	ND
1,1-DCE	109
1,4-Dioxane	50.9
1,1,1-TCA	2.5
TCE	ND

RW-2D	6/16/25
1,1-DCA	26.3
1,2-DCA	ND
1,1-DCE	109
1,4-Dioxane	50.9
1,1,1-TCA	2.5
TCE	ND

ND	NON DETECT
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
TCE	TRICHLOROETHENE

Cleanup Levels	µg/l
1,1-DCA	2.8
1,2-DCA	5
1,1-DCE	7
1,4-Dioxane	15
1,1,1-TCA	200
TCE	5

Drawn By: EGC
Checked: EMR 7/31/2025
Approved: RG
DWG Name: 314V5608.010-110

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 6
GROUNDWATER RECOVERY WELL RESULTS
(JUNE 2025)

WSP USA Inc.
13530 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

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TABLES

Table 1

Total and Dissloved Copper in Process Water and Tap Water Samples
Groundwater Treatment System
Former Kop-Flex Inc. Site
Hanover, Maryland
April 2025

		Sample Location	Treatment Building											
		Sample ID	**VSP-1 (Influent)**		**VSP-2**		**VSP-3**		**VSP-4 (Effluent)**		**Sink (Tap Water)**		**Sink (Tap Water)**	
		Date	4/3/2025		4/3/2025		4/3/2025		4/3/2025		4/3/2025		4/29/2025	
		Sample Type	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Constituent	**Analytical Method**	**Units**	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Copper	EPA 200.8	µg/L	5.9	5.2	5.8	5.2	6	5.4	4.5	3.9	39.6	8.4	49.1	33.8

Notes:
ug/L - microgram per liter. To evaluate sources of elevated copper concentrations, individual results were compared to the daily maximum concentration (13 µg/l) and the monthly average concentration (9 µg/l) of total copper in the discharge, as specified in the National Pollutant Discharge Elimination System Permit MD0069094, which the Maryland Department of the Environment tracks as State Discharge Permit No. 21-DP-3442.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

			12/7/2016 (c)		**2/1/2017 (c)**		**3/21/2017**		**4/7/2017**		**4/10/2017**	
Well ID	**Zone**	**TOC elevation**	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-01	Shallow	129.8	NM	-	15.98	113.82	16.16	113.64	15.93	113.87	15.95	113.85
MW-03	Shallow	113.6	6.78	106.82	6.83	106.77	6.79	106.81	6.41	107.19	6.76	106.84
MW-04	Shallow	124.4	12.28	112.12	11.14	113.26	11.17	113.23	11.05	113.35	11.09	113.31
MW-04R (b)	Shallow	127.5	NA	-	NA	-	NA	-	NA	-	NA	-
MW-5R	Shallow	123.5	15.87	107.63	13.49	110.01	15.98	107.52	16.15	107.35	16.38	107.12
MW-09	Shallow	125.1	10.84	114.26	11.30	113.80	11.51	113.59	11.41	113.69	11.41	113.69
MW-16	Shallow	124.0	10.92	113.08	11.12	112.88	11.66	112.34	11.74	112.26	11.81	112.19
MW-18	Shallow	125.1	20.77	104.33	20.84	104.26	22.85	102.25	22.85	102.25	23.11	101.99
MW-20	Shallow	125.4	NM	-	12.24	113.16	12.5	112.90	12.33	113.07	12.31	113.09
MW-38R	Shallow	125.4	15.58	109.82	15.76	109.64	19.64	105.76	19.6	105.80	20.81	104.59
MW-39	Shallow	124.6	NM	-	20.96	103.64	22.64	101.96	22.55	102.05	21.86	102.74
MW-42	Shallow	125.9	16.18	109.72	16.26	109.64	19.28	106.62	19.33	106.57	19.52	106.38
MW-43	Shallow	122.8	19.25	103.55	19.31	103.49	20.68	102.12	20.31	102.49	20.61	102.19
MW-44	Shallow	127.1	14.93	112.17	15.25	111.85	17.7	109.40	17.08	110.02	17.18	109.92
MW-45	Shallow	126.7	NM	-	NM	-	14.1	112.62	13.85	112.87	13.85	112.87
RW-1S	Shallow	122.9	12.96	109.94	13.17	109.73	12.96	109.94	20.36	102.54	20.6	102.30
RW-2S	Shallow	123.5	14.12	109.38	14.02	109.48	28.55	94.95	28.88	94.62	29.81	93.69
RW-3S	Shallow	125.4	14.29	111.11	14.24	111.16	20.34	105.06	23.49	101.91	23.59	101.81
MW-01D	Deep	129.4	42.81	86.59	42.22	87.18	56.15	73.25	56.06	73.34	56.22	73.18
MW-16D	Deep	124.1	34.91	89.19	34.72	89.38	37.55	86.55	37.6	86.50	38.02	86.08
MW-21D	Deep	126.3	37.8	88.50	37.59	88.71	47.12	79.18	47.26	79.04	47.57	78.73
MW-22D	Deep	128.9	40.78	88.07	40.49	88.36	43.28	85.57	43.3	85.55	43.59	85.26
MW-23D	Deep	125.2	35.14	90.06	34.74	90.46	36.33	88.87	36.29	88.91	36.72	88.48
MW-24D	Deep	129.1	46.3	82.80	45.73	83.37	47.44	81.66	47.71	81.39	48	81.10
MW-27D	Deep	117.2	29.66	87.54	26.78	90.42	27.73	89.47	27.68	89.52	28.18	89.02
MW-40D	Deep	124.1	35.14	88.96	34.94	89.16	37.19	86.91	37.51	86.59	37.98	86.12
MW-41D	Deep	127.1	41.98	85.12	41.44	85.66	44.00	83.10	44.06	83.04	44.48	82.62
MW-46D	Deep	124.8	NM	-	NM	-	NM	-	NM	-	NM	-
RW-1D	Deep	126.9	38.53	88.37	38.19	88.71	58.69	68.21	59.02	67.88	59.06	67.84
RW-2D	Deep	127.4	42.31	85.09	41.62	85.78	68.82	58.58	68.51	58.89	68.39	59.01

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
b/ MW-04 was replaced in September 2022 with MW-04R.
c/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

Well ID	Zone	TOC elevation	4/13/2017		4/17/2017		5/1/2017		5/8/2017		8/31/2017	
			Depth to Water	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-01	Shallow	129.8	15.94	113.86	15.90	113.90	15.92	113.88	15.81	113.99	15.49	114.31
MW-03	Shallow	113.6	6.91	106.69	6.90	106.70	6.96	106.64	6.87	106.73	7.59	106.01
MW-04	Shallow	124.4	11.06	113.34	11.13	113.27	10.95	113.45	10.91	113.49	10.66	113.74
MW-04R (b)	Shallow	127.5	NA	-	NA	-	NA	-	NA	-	NA	-
MW-5R	Shallow	123.5	16.45	107.05	16.47	107.03	16.60	106.90	16.60	106.90	16.90	106.60
MW-09	Shallow	125.1	11.51	113.59	11.48	113.62	11.41	113.69	11.34	113.76	11.09	114.01
MW-16	Shallow	124.0	11.82	112.18	12.08	111.92	11.99	112.01	11.81	112.19	11.90	112.10
MW-18	Shallow	125.1	23.18	101.92	23.19	101.91	23.30	101.80	23.28	101.82	24.63	100.47
MW-20	Shallow	125.4	12.3	113.10	13.38	112.02	13.01	112.39	12.24	113.16	12.39	113.01
MW-38R	Shallow	125.4	19.81	105.59	19.84	105.56	19.94	105.46	19.96	105.44	20.16	105.24
MW-39	Shallow	124.6	23	101.60	23.01	101.59	23.05	101.55	23.00	101.60	24.51	100.09
MW-42	Shallow	125.9	19.49	106.41	19.55	106.35	19.68	106.22	19.67	106.23	19.95	105.95
MW-43	Shallow	122.8	21.81	100.99	20.92	101.88	21.11	101.69	20.90	101.90	21.73	101.07
MW-44	Shallow	127.1	17.35	109.75	17.23	109.87	17.31	109.79	17.27	109.83	17.18	109.92
MW-45	Shallow	126.7	13.85	112.87	13.75	112.97	13.67	113.05	13.60	113.12	13.20	113.52
RW-1S	Shallow	122.9	20.56	102.34	20.60	102.30	20.80	102.10	20.79	102.11	21.49	101.41
RW-2S	Shallow	123.5	29	94.50	29.14	94.36	29.61	93.89	29.74	93.76	32.10	91.40
RW-3S	Shallow	125.4	23.69	101.71	23.73	101.67	24.32	101.08	24.46	100.94	26.20	99.20
MW-01D	Deep	129.4	56.44	72.96	56.37	73.03	56.40	73.00	56.29	73.11	56.70	72.70
MW-16D	Deep	124.1	38.1	86.00	37.94	86.16	37.98	86.12	38.08	86.02	41.1	83.00
MW-21D	Deep	126.3	47.61	78.69	47.58	78.72	47.54	78.76	47.61	78.69	56.7	69.60
MW-22D	Deep	128.9	43.76	85.09	43.73	85.12	43.82	85.03	43.81	85.04	46.71	82.14
MW-23D	Deep	125.2	36.81	88.39	36.61	88.59	36.71	88.49	36.77	88.43	39.9	85.30
MW-24D	Deep	129.1	48.16	80.94	48.29	80.81	48.35	80.75	48.37	80.73	55.82	73.28
MW-27D	Deep	117.2	28.3	88.90	28.03	89.17	28.21	88.99	28.21	88.99	31.11	86.09
MW-40D	Deep	124.1	37.98	86.12	37.85	86.25	38.01	86.09	38.04	86.06	41.00	83.10
MW-41D	Deep	127.1	44.56	82.54	44.43	82.67	44.61	82.49	44.62	82.48	49.18	77.92
MW-46D	Deep	124.8	NM	-	NM	-	NM	-	NM	-	NM	-
RW-1D	Deep	126.9	59.02	67.88	59.26	67.64	58.88	68.02	58.99	67.91	60.23	66.67
RW-2D	Deep	127.4	68.78	58.62	68.63	58.77	68.70	58.70	68.44	58.96	70.11	57.29

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
c/ MW-04 was replaced in September 2022 with MW-04R.
b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

			10/25/2017		11/14/2017		5/30/2018		11/7/2018	
Well ID	**Zone**	**TOC elevation**	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-01	Shallow	129.8	NA	NA	14.17	115.63	15.52	114.28	13.99	115.81
MW-03	Shallow	113.6	NA	NA	7.27	106.33	7.17	106.43	6.43	107.17
MW-04	Shallow	124.4	NA	NA	10.97	113.43	10.19	114.21	9.16	115.24
MW-04R (b)	Shallow	127.5	NA	-	NA	-	NA	-	NA	-
MW-5R	Shallow	123.5	NA	NA	16.78	106.72	15.89	107.61	15.51	107.99
MW-09	Shallow	125.1	NA	NA	NA	NA	10.78	114.32	9.16	115.94
MW-16	Shallow	124.0	NA	NA	12.00	112.00	11.76	112.24	10.96	113.04
MW-18	Shallow	125.1	NA	NA	24.41	100.69	23.80	101.30	23.13	101.97
MW-20	Shallow	125.4	NA	NA	11.98	113.42	12.15	113.25	11.74	113.66
MW-38R	Shallow	125.4	NA	NA	19.93	105.47	19.35	106.05	18.67	106.73
MW-39	Shallow	124.6	NA	NA	23.93	100.67	23.72	100.88	23.09	101.51
MW-42	Shallow	125.9	NA	NA	19.82	106.08	19.16	106.74	18.55	107.35
MW-43	Shallow	122.8	NA	NA	21.66	101.14	20.47	102.33	20.60	102.20
MW-44	Shallow	127.1	NA	NA	17.00	110.10	16.32	110.78	15.78	111.32
MW-45	Shallow	126.7	NA	NA	13.80	112.92	12.98	113.74	12.00	114.72
RW-1S	Shallow	122.9	NA	NA	21.98	100.92	22.88	100.02	23.97	98.93
RW-2S	Shallow	123.5	NA	NA	30.76	92.74	28.37	95.13	27.48	96.02
RW-3S	Shallow	125.4	NA	NA	28.47	96.93	26.91	98.49	24.39	101.01
MW-01D	Deep	129.4	58.17	71.23	58.09	71.31	58.03	71.37	57.22	72.18
MW-16D	Deep	124.1	40.71	83.39	40.63	83.47	40.37	83.73	39.33	84.77
MW-21D	Deep	126.3	50.61	75.69	50.53	75.77	50.38	75.92	49.61	76.69
MW-22D	Deep	128.9	46.74	82.11	46.25	82.60	46.30	82.55	35.31	93.54
MW-23D	Deep	125.2	39.21	85.99	39.04	86.16	38.87	86.33	37.72	87.48
MW-24D	Deep	129.1	52.15	76.95	51.99	77.11	50.94	78.16	50.72	78.38
MW-27D	Deep	117.2	30.52	86.68	30.34	86.86	30.20	87.00	29.17	88.03
MW-40D	Deep	124.1	40.75	83.35	40.50	83.60	40.44	83.66	39.60	84.50
MW-41D	Deep	127.1	47.94	79.16	47.71	79.39	47.56	79.54	46.56	80.54
MW-46D	Deep	124.8	NM	-	NM	-	37.37	87.40	32.65	92.12
RW-1D	Deep	126.9	62.62	64.28	63.62	63.28	62.75	64.15	62.97	63.93
RW-2D	Deep	127.4	68.90	58.50	68.95	58.45	69.21	58.19	68.34	59.06

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
c/ MW-04 was replaced in September 2022 with MW-04R.
b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

			5/21/2019		11/19/2019		5/12/2020		11/22/2020	
Well ID	**Zone**	**TOC elevation**	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-01	Shallow	129.8	13.98	115.82	16.47	113.33	15.67	114.13	15.58	114.22
MW-03	Shallow	113.6	7.08	106.52	7.02	106.58	6.09	107.51	6.1	107.50
MW-04	Shallow	124.4	8.80	115.60	11.07	113.33	11.00	113.40	10.85	113.55
MW-04R (b)	Shallow	127.5	NA	-	NA	-	NA	-	NA	-
MW-5R	Shallow	123.5	15.74	107.76	16.61	106.89	16.55	106.95	15.84	107.66
MW-09	Shallow	125.1	9.61	115.49	12.00	113.10	11.57	113.53	11.23	113.87
MW-16	Shallow	124.0	9.37	114.63	12.43	111.57	11.66	112.34	11.68	112.32
MW-18	Shallow	125.1	22.97	102.13	21.12	103.98	23.10	102.00	23.80	101.30
MW-20	Shallow	125.4	10.64	114.76	12.98	112.42	12.57	112.83	12.11	113.29
MW-38R	Shallow	125.4	19.13	106.27	19.83	105.57	19.03	106.37	19.25	106.15
MW-39	Shallow	124.6	23.00	101.60	23.94	100.66	23.04	101.56	23.52	101.08
MW-42	Shallow	125.9	18.91	106.99	19.44	106.46	18.85	107.05	NM	-
MW-43	Shallow	122.8	21.46	101.34	22.04	100.76	20.98	101.82	21.91	100.89
MW-44	Shallow	127.1	15.91	111.19	17.24	109.86	16.30	110.80	16.52	110.58
MW-45	Shallow	126.7	11.75	114.97	14.55	112.17	NM	-	13.61	113.11
RW-1S	Shallow	122.9	26.42	96.48	28.64	94.26	29.16	93.74	28.13	94.77
RW-2S	Shallow	123.5	31.16	92.34	31.70	91.80	33.33	90.17	35.31	88.19
RW-3S	Shallow	125.4	22.10	103.30	23.24	102.16	22.85	102.55	26.72	98.68
MW-01D	Deep	129.4	56.55	72.85	59.49	69.91	57.17	72.23	59.91	69.49
MW-16D	Deep	124.1	38.30	85.80	40.99	83.11	38.67	85.43	39.97	84.13
MW-21D	Deep	126.3	48.38	77.92	50.75	75.55	48.50	77.80	50.37	75.93
MW-22D	Deep	128.9	44.02	84.83	46.20	82.65	44.05	84.80	46.55	82.30
MW-23D	Deep	125.2	36.88	88.32	39.40	85.80	37.16	88.04	39.22	85.98
MW-24D	Deep	129.1	49.67	79.43	51.12	77.98	48.80	80.30	53.02	76.08
MW-27D	Deep	117.2	28.15	89.05	30.68	86.52	28.64	88.56	30.62	86.58
MW-40D	Deep	124.1	38.50	85.60	41.16	82.94	38.59	85.51	40.97	83.13
MW-41D	Deep	127.1	45.42	81.68	48.50	78.60	45.28	81.82	48.65	78.45
MW-46D	Deep	124.8	35.47	89.30	37.90	86.87	35.73	89.04	37.72	87.05
RW-1D	Deep	126.9	62.44	64.46	64.86	62.04	NM	-	NM	-
RW-2D	Deep	127.4	68.19	59.21	71.36	56.04	69.35	58.05	69.72	57.68

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
b/ MW-04 was replaced in September 2022 with MW-04R.
c/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

Well ID	Zone	TOC elevation	5/9/2021 Depth to Water	5/9/2021 Groundwater Elevation	11/14/2021 (c) Depth to Water	11/14/2021 (c) Groundwater Elevation	6/26/2022 (c) Depth to Water	6/26/2022 (c) Groundwater Elevation	11/7/2022 Depth to Water	11/7/2022 Groundwater Elevation	11/20/2022 Depth to Water	11/20/2022 Groundwater Elevation
MW-01	Shallow	129.8	14.75	115.05	15.35	114.45	14.85	114.95	15.66	114.14	15.65	114.15
MW-03	Shallow	113.6	6.4	107.20	5.86	107.74	6.21	107.39	6.39	107.21	6.29	107.31
MW-04	Shallow	124.4	9.75	114.65	10.43	113.97	9.90	114.50	-	- (b)	-	- (b)
MW-04R (b)	Shallow	127.5	NA	-	NA	-	NA	-	13.93	113.54	14.01	113.46
MW-5R	Shallow	123.5	NM	-	13.52	109.98	14.36	109.14	NM	-	15.95	107.55
MW-09	Shallow	125.1	10.35	114.75	10.85	114.25	10.50	114.60	10.81	114.29	11.08	114.02
MW-16	Shallow	124.0	11.15	112.85	11.05	112.95	11.22	112.78	11.84	112.16	11.75	112.25
MW-18	Shallow	125.1	26.71	98.39	21.42	103.68	22.05	103.05	23.37	101.73	23.39	101.71
MW-20	Shallow	125.4	11.22	114.18	11.34	114.06	14.41	110.99	11.35	114.05	11.73	113.67
MW-38R	Shallow	125.4	18.55	106.85	15.63	109.77	17.66	107.74	19.32	106.08	19.01	106.39
MW-39	Shallow	124.6	22.98	101.62	21.29	103.31	22.22	102.38	23.74	100.86	23.49	101.11
MW-42	Shallow	125.9	17.98	107.92	15.64	110.26	NM	-	18.68	107.22	18.48	107.42
MW-43	Shallow	122.8	21.02	101.78	20.10	102.70	20.47	102.33	21.58	101.22	21.51	101.29
MW-44	Shallow	127.1	16.26	110.84	15.21	111.89	15.80	111.30	16.12	110.98	15.85	111.25
MW-45	Shallow	126.7	12.69	114.03	13.35	113.37	12.91	113.81	NM	-	13.54	113.18
RW-1S	Shallow	122.9	25.00	97.90	13.28	109.62	NM	-	20.77	102.13	20.41	102.49
RW-2S	Shallow	123.5	34.85	88.65	16.02	107.48	NM	-	29.30	94.20	28.82	94.68
RW-3S	Shallow	125.4	25.36	100.04	15.69	109.71	NM	-	NM	-	16.94	108.46
MW-01D	Deep	129.4	57.46	71.94	45.20	84.20	47.46	81.94	NM	-	60.02	69.38
MW-16D	Deep	124.1	38.81	85.29	37.06	87.04	NM	-	NM	-	NM	-
MW-21D	Deep	126.3	48.64	77.66	41.50	84.80	43.11	83.19	NM	-	51.95	74.35
MW-22D	Deep	128.9	44.72	84.13	43.36	85.49	44.90	83.95	NM	-	46.90	81.95
MW-23D	Deep	125.2	37.36	87.84	36.73	88.47	38.36	86.84	NM	-	39.85	85.35
MW-24D	Deep	129.1	50.01	79.09	49.40	79.70	51.06	78.04	NM	-	53.11	75.99
MW-27D	Deep	117.2	28.89	88.31	28.72	88.48	29.82	87.38	NM	-	31.18	86.02
MW-40D	Deep	124.1	39.00	85.10	37.48	86.62	40.04	84.06	NM	-	41.58	82.52
MW-41D	Deep	127.1	45.95	81.15	44.51	82.59	46.96	80.14	NM	-	48.78	78.32
MW-46D	Deep	124.8	35.95	88.82	35.62	89.15	37.13	87.64	NM	-	38.38	86.39
RW-1D	Deep	126.9	NM	-	41.71	85.19	NM	-	NM	-	64.80	62.10
RW-2D	Deep	127.4	69.41	57.99	43.90	83.50	NM	-	NM	-	71.59	55.81

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
b/ MW-04 was replaced in September 2022 with MW-04R.
c/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

Historical Water Level Measurements in
Onsite Monitoring Wells and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 to June 2025) (a)

			5/21/2023		12/3/2023		5/19/2024		11/10/2024		6/15-6/16/2025	
Well ID	**Zone**	**TOC elevation**	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-01	Shallow	129.8	15.22	114.58	15.73	114.07	14.4	115.40	15.75	114.05	15.32	114.48
MW-03	Shallow	113.6	6.63	106.97	6.9	106.70	6.93	106.67	15.57	98.03	7.47	106.13
MW-04	Shallow	124.4	-	- (b)	-	- (b)	-	- (b)	-	- (b)	-	- (b)
MW-04R (b)	Shallow	127.5	13.60	113.87	14.11	113.36	12.83	114.64	14.13	113.34	13.34	114.13
MW-5R	Shallow	123.5	13.53	109.97	15.32	108.18	14.98	108.52	16.03	107.47	14.13	109.37
MW-09	Shallow	125.1	10.90	114.20	11.29	113.81	10.03	115.07	11.03	114.07	10.66	114.44
MW-16	Shallow	124.0	11.79	112.21	11.68	112.32	10.77	113.23	11.95	112.05	11.05	112.95
MW-18	Shallow	125.1	21.46	103.64	23.69	101.41	22.86	102.24	24.31	100.79	22.68	102.42
MW-20	Shallow	125.4	11.80	113.60	11.81	113.59	11.07	114.33	11.10	114.30	11.78	113.62
MW-38R	Shallow	125.4	16.76	108.64	18.18	107.22	18.28	107.12	18.76	106.64	16.48	108.92
MW-39	Shallow	124.6	21.72	102.88	23.63	100.97	23.20	101.40	24.48	100.12	23.42	101.18
MW-42	Shallow	125.9	15.89	110.01	17.83	108.07	17.97	107.93	18.52	107.38	16.64	109.26
MW-43	Shallow	122.8	20.10	102.70	22.15	100.65	21.92	100.88	22.84	99.96	22.38	100.42
MW-44	Shallow	127.1	15.30	111.80	15.91	111.19	15.51	111.59	16.53	110.57	15.47	111.63
MW-45	Shallow	126.7	13.08	113.64	13.54	113.18	12.40	114.32	13.63	113.09	12.81	113.91
RW-1S	Shallow	122.9	13.22	109.68	18.10	104.80	20.67	102.23	17.90	105.00	20.33	102.57
RW-2S	Shallow	123.5	14.70	108.80	28.91	94.59	20.57	102.93	33.06	90.44	37.33	86.17
RW-3S	Shallow	125.4	15.82	109.58	NM	-	16.97	108.43	NM	-	27.51	97.89
MW-01D	Deep	129.4	45.61	83.79	58.66	70.74	48.81	80.59	50.88	78.52	49.50	79.90
MW-16D	Deep	124.1	37.56	86.54	41.89	82.21	40.33	83.77	42.23	81.87	40.88	83.22
MW-21D	Deep	126.3	40.86	85.44	51.76	74.54	50.40	75.90	51.17	75.13	44.45	81.85
MW-22D	Deep	128.9	43.52	85.33	48.10	80.75	46.44	82.41	48.03	80.82	47.14	81.71
MW-23D	Deep	125.2	37.31	87.89	40.28	84.92	39.06	86.14	41.00	84.20	40.27	84.93
MW-24D	Deep	129.1	49.42	79.68	53.83	75.27	52.60	76.50	54.70	74.40	54.12	74.98
MW-27D	Deep	117.2	29.24	87.96	31.71	85.49	30.64	86.56	32.54	84.66	32.07	85.13
MW-40D	Deep	124.1	37.80	86.30	42.06	82.04	40.96	83.14	42.73	81.37	41.15	82.95
MW-41D	Deep	127.1	44.84	82.26	49.37	77.73	47.50	79.60	49.71	77.39	49.03	78.07
MW-46D	Deep	124.8	36.26	88.51	38.88	85.89	37.66	87.11	39.80	84.97	39.03	85.74
RW-1D	Deep	126.9	42.00	84.90	64.03	62.87	63.31	63.59	62.86	64.04	67.60	59.30
RW-2D	Deep	127.4	45.25	82.15	NM	-	NM	-	NM	-	NM	-

a/ Vertical datum is NAVD-88
NM = not measured
TOC = top of casing
NA = not available because the well had not been installed
Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.
Continuous pumping of the groundwater recovery well system started on March 29, 2017.
Water levels from both shallow and deep recovery wells were measured in piezometers co-located with the wells.
b/ MW-04 was replaced in September 2022 with MW-04R.
c/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 3

Deployment Depths for HydraSleeve Samplers in Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Well Depth (ft bgs)	Top of Screen (ft bgs)	Deployment Depth (ft bgs) (b)	Sample Interval (ft bgs)
Shallow Wells				
MW-04R	40	30	35	31.8-35
MW-09	25	15	20	16.8 - 20
MW-16	50	40	45	40.7 - 45
MW-20	60	50	55	51.8 - 55
MW-38R	28	18	23	20.9 - 24.1
MW-39	50	40	45	41.8 - 45
MW-42	30	20	25	21.8 - 25.0
MW-43	46	36	41	37.8 - 41.0
MW-44	42	32	37	33.8 - 37.0
Deep Wells				
MW-01D	112	102	107	103.8 - 107.0
MW-16D	101	91	98	95.2 - 98.4
MW-21D	102	92	97	93.8 - 97.0
MW-22D	114	104	109	105.8 - 109.0
MW-23D	92	82	87	83.8 - 87

a/ ft bgs = feet below ground surface

b/ Deployment depth is measured at the top of the sampler

Table 4

Field Water Quality Measurements for Monitoring Well Samples
Former Kop-Flex Facility Site
Hanover, MD
June 2025 (a)

Well ID	Sample Date	Temperature (°C)	pH (SU)	Specific Conductivity (mS/cm)	ORP (mV)	Turbidity(NTU)
Shallow Wells						
MW-04R	6/15/2025	16.88	3.20	0.535	419	724
MW-09	6/15/2025	17.28	6.79	2.89	320	> 1000
MW-16	6/15/2025	Parameters Not Collected Due to Insufficient Sample Volume				
MW-20	6/15/2025	17.13	4.27	0.138	449	332
MW-38R	6/15/2025	16.30	3.59	0.187	492	0.0
MW-39	6/15/2025	16.62	3.50	0.346	521	25.6
MW-42	6/15/2025	15.93	4.42	0.190	450	254
MW-43	6/15/2025	17.34	3.90	0.494	446	126
MW-44	6/15/2025	Parameters Not Collected Due to Insufficient Sample Volume				
Deep Wells						
MW-01D	6/15/2025	16.90	4.81	0.177	548	0.0
MW-16D	6/15/2025	Parameters Not Collected Due to Insufficient Sample Volume				
MW-21D	6/15/2025	16.77	4.20	0.271	553	90.5
MW-22D	6/15/2025	16.63	4.35	0.220	591	830
MW-23D	6/15/2025	17.16	5.55	0.418	456	790

a/ °C = degrees Celsius; SU = standard units; mS/cm = milliSiemens/centimeter; ORP = oxidation-reduction potential; mV = millivolts; NTU = nephelometric turbidity units.

Table 5

June 2025 Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Parameters	Groundwater Cleanup Standards (µg/L) (b)		Shallow Wells								
		Well ID:	MW-04R (d)	MW-09	MW-16	MW-20	MW-38R	MW-39	MW-42	MW-43	MW-44
		Sampling Date:	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025
Chloroethane	2,100		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.8		**34.0**	2.1	**1,080**	**407**	**9.2**	1.0 U	1.0 U	1.3	1.5
1,2-Dichloroethane	5		1.0	1.0 U	20.0 U	**12.9**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7		**67.7**	**42.9**	**1,470**	**601**	1.0 U	1.0 U	1.0 U	**14.1**	1.6
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	15	(c)	**34.7**	7.5	**92.6**	**749**	**19.8**	1.0 U	5.7	9.7	1.7
Methylene Chloride			1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200		1.0 U	1.0 U	**786**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1
1,1,2-Trichloroethane	5		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	3		1.0 U	1.0 U	20.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
		Total COCs & 1,4-Dioxane	**137.4**	**52.5**	**3,429**	**1769.9**	**29**	**ND**	**5.7**	**25.1**	**5.9**

Table 5

June 2025 Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Parameters	Groundwater Cleanup Standards (µg/L) (b)		Deep Wells					
		Well ID:	MW-01D	MW-16D	MW-100 (e)	MW-21D	MW-22D	MW-23D
		Sampling Date:	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025	6/15/2025
Chloroethane	2,100		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	2.8		**3.6**	**17.7**	**17.6**	1.0 U	1.0 U	**34.6**
1,2-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
1,1-Dichloroethene	7		**17.8**	**74.4**	**70.2**	**16.4**	**8.3**	**139**
cis-1,2-Dichloroethene	70		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	15	(c)	5.1	**22.4**	**28.1**	6.0	1.7	**32.4**
Methylene Chloride			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200		1.0 U	3.4	3.5	1.0 U	1.0 U	5.9
1,1,2-Trichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	3		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
		Total COCs & 1,4-Dioxane	**26.5**	**117.9**	**119.4**	**22.4**	**10**	**213.2**

a/ U = not detected above the method detection limit; ID = identification;
COCs = Site-specific contaminants of concern (sum of 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, 1,1,1-trichloroethane, and 1,4-dioxane)
Bolded values indicate an exceedence of the Groundwater Quality Standards
All sample concentrations in micrograms per liter (µg/l)
Collected samples representative of non-pumping conditions in the aquifer system
b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020:
https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.
c/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.
d/ MW-04 was replaced in September 2022 with monitoring well MW-4R
e/ MW-100 is a blind duplicate of MW-16D

Table 6
June 2025 Recovery Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Parameters	Groundwater Cleanup Standards (µg/L) (b)		Shallow Zone Wells			Deep Zone Wells	
		Well ID:	**RW-1S**	**RW-2S**	**RW-3S**	**RW-1D**	**RW-2D**
		Sampling Date:	6/16/2025	6/16/2025	6/16/2025	6/16/2025	6/16/2025
Chloroethane	2,100		28.3	5.0 U	1.0 U	9.7	1.0 U
1,1-Dichloroethane	2.8		**264**	**128**	1.9	**62.1**	**26.3**
1,1-Dichloroethene	7		**1,110**	**869**	3.4	**284**	**109**
1,4-Dioxane	15.0	(c)	**292**	**632**	3.1	**39.7**	**50.9**
1,1,1-Trichloroethane	200		71.2	**374**	2.6	11.2	2.5
Trichloroethene	5		**7.9**	**8.6**	1.0 U	5.0 U	1.0 U
Vinyl Chloride	3		**9.2**	5.0 U	1.0 U	5.0 U	1.0 U
Total Detected CVOCs + 1,4-Dioxane			*1,783*	*2,012*	*11*	*406.7*	*189*

a/ U = not detected above the method detection limit
Bolded values indicate an exceedence of the Groundwater Quality Standards
All sample concentrations in micrograms per liter (µg/l)
b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater, Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020: https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/document/MDE%20Soil%20a
c/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

ENCLOSURE A – LABORATORY REPORT FOR APRIL 2025 COPPER SAMPLING

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040313

April 18, 2025

Eric Johnson
WSP USA - Herndon
13530 Dulles Technology Dr, Ste 300
Herndon, VA 20171

Reference: PSS Project No: **25040313**
Project Name: Kop-Flex
Project Location: Hanover, MD
Project ID.: 31405608.010/02.02

Dear Eric Johnson:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **25040313**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 8, 2025, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

PHASE SEPARATION SCIENCE

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Sample Summary

Project Name: Kop-Flex

PSS Project No.: 25040313

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/03/2025 at 02:37 pm
Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
25040313-001	Influent-VSP1	GROUND WATER	04/03/25 11:40
25040313-002	Effluent-VSP4	WASTE WATER	04/03/25 11:10
25040313-003	Trip Blank- 040325	WATER	04/03/25 00:00

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Phase Separation Science

Report Information

Project Name: Kop-Flex

PSS Project No.: 25040313

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Samples prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements

Standard Flags/Abbreviations:

B	A target analyte was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C	Results pending final confirmation.
Dil	Dilution Factor is the factor applied to the reported data due to dilution of the sample aliquot.
E	The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
F	RPD exceeded the laboratory control limits.
Fail	The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
H	Recovery of BKS, BSD or both exceeded the laboratory control limits.
J	The target analyte was positively identified below the reporting limit but greater than the MDL.
L	Recovery of BKS, BSD or both below the laboratory control limits.
MCL	The Maximum Contaminant Level is the highest level of a contaminant that is allowed in drinking water as determined by the EPA.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level.
ND	Not Detected at or above the reporting limit (or MDL if shown).
RL	PSS Reporting Limit.
X	Recovery outside of QC criteria.
%Rec	Percent Recovery

QC Types:

CCV	Continuing Calibration Verification	MD	Sample Duplicate
ICV	Initial Calibration Verification	MRL	Minimum Reporting Level
LCS / BKS	Laboratory Control Sample	MS	Matrix Spike
LCSD / BSD	Laboratory Control Sample Duplicate	MSD	Matrix Spike Duplicate
LLCCV	Low Level Continuing Calibration Verification	PDS	Post Digestion Spike
MB / BLK	Method Blank	RPD	Relative Percent Difference

Certifications:

Authority	Program	Identification Number
Maryland - MDE	State - Certification of Drinking Water Laboratories	179
MWAA	LDBE	LD1997-0041-2015
Pennsylvania - PADEP	NELAP	68-03330
USCG	NSWC	Accepted Laboratory
USDA	Regulated Soil Permit	P330-12-00268
Virginia - VELAP	NELAP	460156
West Virginia - WVDEP	State - Certified Laboratories	303

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Influent-VSP1 **PSS Sample ID: 25040313-001**
Date/Time Sampled: 04/03/2025 11:40 **Matrix: GROUND WATER**

1,4- Dioxane Analytical Method: EPA 624 .1 Preparation Method: E624.1

Qualifier(s): See NELAP accreditation section on Case Narrative.

pH=2

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
1,4-Dioxane	**75.4**	ug/L	10.0		10	10	04/08/25	04/08/25 19:37	1045
Surrogate(s)	***Recovery***		***Limits***						
Dibromofluoromethane	*104*	*%*	*95-109*		*10*		*04/08/25*	*04/08/25 19:37*	*1045*
4-Bromofluorobenzene	*0*	*%*	*74-124*	*	*10*		*04/08/25*	*04/08/25 19:37*	*1045*
Toluene-D8	*96*	*%*	*94-108*		*10*		*04/08/25*	*04/08/25 19:37*	*1045*

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5030B

Qualifier(s): See Batch 220762 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	5.0		1	1.9	04/11/25	04/11/25 14:36	1045
Benzene	ND	ug/L	1.0		1	0.25	04/11/25	04/11/25 14:36	1045
Bromochloromethane	ND	ug/L	1.0		1	0.3	04/11/25	04/11/25 14:36	1045
Bromodichloromethane	ND	ug/L	1.0		1	0.28	04/11/25	04/11/25 14:36	1045
Bromoform	ND	ug/L	1.0		1	0.37	04/11/25	04/11/25 14:36	1045
Bromomethane	ND	ug/L	1.0		1	0.48	04/11/25	04/11/25 14:36	1045
2-Butanone (MEK)	ND	ug/L	5.0		1	2.4	04/11/25	04/11/25 14:36	1045
Carbon Disulfide	ND	ug/L	1.0		1	0.43	04/11/25	04/11/25 14:36	1045
Carbon tetrachloride	ND	ug/L	1.0		1	0.22	04/11/25	04/11/25 14:36	1045
Chlorobenzene	ND	ug/L	1.0		1	0.27	04/11/25	04/11/25 14:36	1045
Chloroethane	**4.8**	ug/L	1.0		1	0.37	04/11/25	04/11/25 14:36	1045
Chloroform	ND	ug/L	1.0		1	0.27	04/11/25	04/11/25 14:36	1045
Chloromethane	ND	ug/L	1.0		1	0.36	04/11/25	04/11/25 14:36	1045
Cyclohexane	ND	ug/L	1.0		1	0.3	04/11/25	04/11/25 14:36	1045
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0		1	0.43	04/11/25	04/11/25 14:36	1045
Dibromochloromethane	ND	ug/L	1.0		1	0.35	04/11/25	04/11/25 14:36	1045
1,2-Dibromoethane	ND	ug/L	1.0		1	0.33	04/11/25	04/11/25 14:36	1045
1,2-Dichlorobenzene	ND	ug/L	1.0		1	0.31	04/11/25	04/11/25 14:36	1045
1,3-Dichlorobenzene	ND	ug/L	1.0		1	0.29	04/11/25	04/11/25 14:36	1045
Dichlorodifluoromethane	ND	ug/L	1.0		1	0.44	04/11/25	04/11/25 14:36	1045
1,4-Dichlorobenzene	ND	ug/L	1.0		1	0.34	04/11/25	04/11/25 14:36	1045
1,1-Dichloroethane	**51**	ug/L	1.0		1	0.24	04/11/25	04/11/25 14:36	1045
1,2-Dichloroethane	**1.4**	ug/L	1.0		1	0.23	04/11/25	04/11/25 14:36	1045
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0		1	0.25	04/11/25	04/11/25 14:36	1045
1,1-Dichloroethene	**200**	ug/L	10		10	3.9	04/17/25	04/17/25 23:13	1045

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Influent-VSP1 **PSS Sample ID: 25040313-001**
Date/Time Sampled: 04/03/2025 11:40 **Matrix: GROUND WATER**

TCL Volatile Organic Compounds Analytical Method: SW-846 8260 D Preparation Method: SW5030B

Qualifier(s): See Batch 220762 on Case Narrative.

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
1,2-Dichloropropane	ND	ug/L	1.0		1	0.26	04/11/25	04/11/25 14:36	1045
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	0.34	04/11/25	04/11/25 14:36	1045
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	0.43	04/11/25	04/11/25 14:36	1045
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	0.22	04/11/25	04/11/25 14:36	1045
Ethylbenzene	ND	ug/L	1.0		1	0.3	04/11/25	04/11/25 14:36	1045
2-Hexanone (MBK)	ND	ug/L	5.0		1	2	04/11/25	04/11/25 14:36	1045
Isopropylbenzene	ND	ug/L	1.0		1	0.32	04/11/25	04/11/25 14:36	1045
Methyl Acetate	ND	ug/L	1.0		1	0.51	04/11/25	04/11/25 14:36	1045
Methylcyclohexane	ND	ug/L	1.0		1	0.28	04/11/25	04/11/25 14:36	1045
Methylene chloride	ND	ug/L	1.0		1	0.56	04/11/25	04/11/25 14:36	1045
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0		1	1.6	04/11/25	04/11/25 14:36	1045
Methyl-t-Butyl Ether	ND	ug/L	1.0		1	0.32	04/11/25	04/11/25 14:36	1045
Naphthalene	ND	ug/L	1.0		1	0.6	04/11/25	04/11/25 14:36	1045
Styrene	ND	ug/L	1.0		1	0.33	04/11/25	04/11/25 14:36	1045
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	0.28	04/11/25	04/11/25 14:36	1045
Tetrachloroethene	ND	ug/L	1.0		1	0.43	04/11/25	04/11/25 14:36	1045
Toluene	ND	ug/L	1.0		1	0.24	04/11/25	04/11/25 14:36	1045
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	0.3	04/11/25	04/11/25 14:36	1045
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	0.76	04/11/25	04/11/25 14:36	1045
1,1,1-Trichloroethane	**20**	ug/L	1.0		1	0.33	04/11/25	04/11/25 14:36	1045
Trichloroethene	**1.2**	ug/L	1.0		1	0.26	04/11/25	04/11/25 14:36	1045
1,1,2-Trichloroethane	ND	ug/L	1.0		1	0.27	04/11/25	04/11/25 14:36	1045
Trichlorofluoromethane	ND	ug/L	1.0		1	0.33	04/11/25	04/11/25 14:36	1045
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0		1	0.32	04/11/25	04/11/25 14:36	1045
Vinyl chloride	ND	ug/L	1.0		1	0.36	04/11/25	04/11/25 14:36	1045
m&p-Xylene	ND	ug/L	2.0		1	0.47	04/11/25	04/11/25 14:36	1045
o-Xylene	ND	ug/L	1.0		1	0.32	04/11/25	04/11/25 14:36	1045

Surrogate(s)	*Recovery*		*Limits*	*Dil*	*Prepared*	*Analyzed*	*Analyst*
4-Bromofluorobenzene	*108*	*%*	*85-122*	*1*	*04/11/25*	*04/11/25 14:36*	*1045*
Dibromofluoromethane	*102*	*%*	*96-107*	*1*	*04/11/25*	*04/11/25 14:36*	*1045*
Toluene-D8	*99*	*%*	*95-105*	*1*	*04/11/25*	*04/11/25 14:36*	*1045*
4-Bromofluorobenzene	*108*	*%*	*85-122*	*10*	*04/17/25*	*04/17/25 23:13*	*1045*
Dibromofluoromethane	*102*	*%*	*96-107*	*10*	*04/17/25*	*04/17/25 23:13*	*1045*
Toluene-D8	*101*	*%*	*95-105*	*10*	*04/17/25*	*04/17/25 23:13*	*1045*

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Effluent-VSP4 **PSS Sample ID: 25040313-002**
Date/Time Sampled: 04/03/2025 11:10 **Matrix: WASTE WATER**

Total Metals — Analytical Method: EPA 200.8 — Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**4.5**	ug/L	1.0		1	0.98	04/04/25	04/08/25 03:42	1059
Lead	ND	ug/L	1.0		1	0.66	04/04/25	04/08/25 03:42	1059
Nickel	**41.5**	ug/L	1.00		1	0.95	04/04/25	04/08/25 03:42	1059
Zinc	**35.2**	ug/L	20.0		1	7.1	04/04/25	04/08/25 03:42	1059

1,4- Dioxane — Analytical Method: EPA 624 .1 — Preparation Method: E624.1

Qualifier(s): See NELAP accreditation section on Case Narrative.

pH=2

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
1,4-Dioxane	**17.4**	ug/L	1.00		1	1	04/08/25	04/08/25 18:13	1045
Surrogate(s)	***Recovery***		***Limits***						
Dibromofluoromethane	*104*	*%*	*95-109*		*1*		*04/08/25*	*04/08/25 18:13*	*1045*
4-Bromofluorobenzene	*0*	*%*	*74-124*	*	*1*		*04/08/25*	*04/08/25 18:13*	*1045*
Toluene-D8	*96*	*%*	*94-108*		*1*		*04/08/25*	*04/08/25 18:13*	*1045*

VOC (Full List) — Analytical Method: EPA 624 .1 — Preparation Method: E624.1

pH=7

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Acrolein	ND	ug/L	5.0		1	1.7	04/06/25	04/06/25 16:15	1045
Dichlorodifluoromethane	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:15	1045
Acrylonitrile	ND	ug/L	5.0		1	1.5	04/06/25	04/06/25 16:15	1045
Chloromethane	ND	ug/L	1.0		1	0.33	04/06/25	04/06/25 16:15	1045
Vinyl Chloride	ND	ug/L	1.0		1	0.34	04/06/25	04/06/25 16:15	1045
Bromomethane	ND	ug/L	1.0		1	0.6	04/06/25	04/06/25 16:15	1045
Chloroethane	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:15	1045
Trichlorofluoromethane	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:15	1045
2-Chloroethyl Vinyl Ether	ND	ug/L	1.0		1	1	04/06/25	04/06/25 16:15	1045
1,1-Dichloroethene	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:15	1045
Methylene Chloride	ND	ug/L	1.0		1	0.34	04/06/25	04/06/25 16:15	1045
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.29	04/06/25	04/06/25 16:15	1045
1,1-Dichloroethane	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:15	1045
Chloroform	ND	ug/L	1.0		1	0.21	04/06/25	04/06/25 16:15	1045
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.16	04/06/25	04/06/25 16:15	1045
Carbon Tetrachloride	ND	ug/L	1.0		1	0.22	04/06/25	04/06/25 16:15	1045
Benzene	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:15	1045

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Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Effluent-VSP4 **PSS Sample ID: 25040313-002**
Date/Time Sampled: 04/03/2025 11:10 **Matrix: WASTE WATER**

VOC (Full List) Analytical Method: EPA 624 .1 Preparation Method: E624.1

pH=7

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
1,2-Dichloroethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:15	1045
Trichloroethene	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:15	1045
1,2-Dichloropropane	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:15	1045
Bromodichloromethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:15	1045
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:15	1045
Toluene	ND	ug/L	1.0		1	0.52	04/06/25	04/06/25 16:15	1045
trans-1,3-dichloropropene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:15	1045
1,1,2-Trichloroethane	ND	ug/L	1.0		1	0.26	04/06/25	04/06/25 16:15	1045
Tetrachloroethylene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:15	1045
Dibromochloromethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:15	1045
Chlorobenzene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:15	1045
Ethylbenzene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:15	1045
Bromoform	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:15	1045
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	0.27	04/06/25	04/06/25 16:15	1045
1,3-Dichlorobenzene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:15	1045
1,4-Dichlorobenzene	ND	ug/L	1.0		1	0.26	04/06/25	04/06/25 16:15	1045
1,2-Dichlorobenzene	ND	ug/L	1.0		1	0.2	04/06/25	04/06/25 16:15	1045
Surrogate(s)	***Recovery***		***Limits***						
Dibromofluoromethane	*100*	*%*	*95-109*		*1*		*04/06/25*	*04/06/25 16:15*	*1045*
4-Bromofluorobenzene	*106*	*%*	*74-124*		*1*		*04/06/25*	*04/06/25 16:15*	*1045*
Toluene-D8	*99*	*%*	*94-108*		*1*		*04/06/25*	*04/06/25 16:15*	*1045*

Total Suspended Solids Analytical Method: SM 2540D -2015

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Total Suspended Solids	ND	mg/L	1.0		1	0.4	04/03/25	04/03/25 16:05	1074

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Effluent-VSP4 **PSS Sample ID: 25040313-002**

Date/Time Sampled: 04/03/2025 11:10 **Matrix: WASTE WATER**

Biochemical Oxygen Demand Analytical Method: SM 5210B -2016

Qualifier(s): See NELAP accreditation section on Case Narrative.

	Result	Units	RL	Flag	MDL	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand, 5 day	ND	mg/L	2			04/04/25	04/04/25 13:47	4009

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Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Trip Blank- 040325 **PSS Sample ID: 25040313-003**
Date/Time Sampled: 04/03/2025 00:00 **Matrix: WATER**

1,4- Dioxane Analytical Method: EPA 624 .1 Preparation Method: E624.1

Qualifier(s): See NELAP accreditation section on Case Narrative.

pH=2

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
1,4-Dioxane	ND	ug/L	1.0		1	1	04/08/25	04/08/25 18:34	1045
Surrogate(s)	***Recovery***		***Limits***						
Dibromofluoromethane	*104*	*%*	*95-109*		*1*		*04/08/25*	*04/08/25 18:34*	*1045*
4-Bromofluorobenzene	*0*	*%*	*74-124*	*	*1*		*04/08/25*	*04/08/25 18:34*	*1045*
Toluene-D8	*96*	*%*	*94-108*		*1*		*04/08/25*	*04/08/25 18:34*	*1045*

VOC (Full List) Analytical Method: EPA 624 .1 Preparation Method: E624.1

pH=3

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Acrolein	ND	ug/L	5.0		1	1.7	04/06/25	04/06/25 16:36	1045
Acrylonitrile	ND	ug/L	5.0		1	1.5	04/06/25	04/06/25 16:36	1045
Dichlorodifluoromethane	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:36	1045
Chloromethane	ND	ug/L	1.0		1	0.33	04/06/25	04/06/25 16:36	1045
Vinyl Chloride	ND	ug/L	1.0		1	0.34	04/06/25	04/06/25 16:36	1045
Bromomethane	ND	ug/L	1.0		1	0.6	04/06/25	04/06/25 16:36	1045
Chloroethane	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:36	1045
Trichlorofluoromethane	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:36	1045
2-Chloroethyl Vinyl Ether	ND	ug/L	1.0		1	1	04/06/25	04/06/25 16:36	1045
1,1-Dichloroethene	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:36	1045
Methylene Chloride	ND	ug/L	1.0		1	0.34	04/06/25	04/06/25 16:36	1045
trans-1,2-dichloroethene	ND	ug/L	1.0		1	0.29	04/06/25	04/06/25 16:36	1045
1,1-Dichloroethane	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:36	1045
Chloroform	ND	ug/L	1.0		1	0.21	04/06/25	04/06/25 16:36	1045
1,1,1-Trichloroethane	ND	ug/L	1.0		1	0.16	04/06/25	04/06/25 16:36	1045
Carbon Tetrachloride	ND	ug/L	1.0		1	0.22	04/06/25	04/06/25 16:36	1045
Benzene	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:36	1045
1,2-Dichloroethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:36	1045
Trichloroethene	ND	ug/L	1.0		1	0.19	04/06/25	04/06/25 16:36	1045
1,2-Dichloropropane	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:36	1045
Bromodichloromethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:36	1045
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:36	1045
Toluene	ND	ug/L	1.0		1	0.52	04/06/25	04/06/25 16:36	1045
trans-1,3-dichloropropene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:36	1045
1,1,2-Trichloroethane	ND	ug/L	1.0		1	0.26	04/06/25	04/06/25 16:36	1045

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Project Name: Kop-Flex
PSS Project No.: 25040313

Sample ID: Trip Blank- 040325 **PSS Sample ID: 25040313-003**

Date/Time Sampled: 04/03/2025 00:00 **Matrix: WATER**

VOC (Full List) Analytical Method: EPA 624 .1 Preparation Method: E624.1

pH=3

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Tetrachloroethylene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:36	1045
Dibromochloromethane	ND	ug/L	1.0		1	0.18	04/06/25	04/06/25 16:36	1045
Chlorobenzene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:36	1045
Ethylbenzene	ND	ug/L	1.0		1	0.15	04/06/25	04/06/25 16:36	1045
Bromoform	ND	ug/L	1.0		1	0.17	04/06/25	04/06/25 16:36	1045
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	0.27	04/06/25	04/06/25 16:36	1045
1,3-Dichlorobenzene	ND	ug/L	1.0		1	0.23	04/06/25	04/06/25 16:36	1045
1,4-Dichlorobenzene	ND	ug/L	1.0		1	0.26	04/06/25	04/06/25 16:36	1045
1,2-Dichlorobenzene	ND	ug/L	1.0		1	0.2	04/06/25	04/06/25 16:36	1045
Surrogate(s)	***Recovery***		***Limits***						
Dibromofluoromethane	*101*	*%*	*95-109*		*1*		*04/06/25*	*04/06/25 16:36*	*1045*
4-Bromofluorobenzene	*108*	*%*	*74-124*		*1*		*04/06/25*	*04/06/25 16:36*	*1045*
Toluene-D8	*102*	*%*	*94-108*		*1*		*04/06/25*	*04/06/25 16:36*	*1045*

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Case Narrative

Project Name: Kop-Flex

PSS Project No.: 25040313

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

25040313: Analyses associated with analyst code 4009 were performed by
Martel Laboratories, Inc., 1025 Cromwell Bridge Road, Towson, MD 21204

General Comments:

Draft report pending dilution for 1,1-dichloroethene.

Analytical:

TCL Volatile Organic Compounds

Batch: 220762

Continuing calibration verification standard (CCV) meets method criteria in that more than 80% of analytes are within acceptance limits, see QC summary.

Method exceedance: Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) exceedances identified; see QC summary.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Analytical Method(s): SM 5210B -2016

EPA 624 .1: 1,4-Dioxane

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Lab Chronology

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Project Name: Kop-Flex
PSS Project No.: 25040313

Method	PSS Sample ID	Container ID	Analysis Type	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 200.8	25040313-002	83	Initial	W	104264	220643	04/04/2025 12:55	04/08/2025 03:42
	104264-1-BKS		BKS	W	104264	220643	04/04/2025 12:55	04/08/2025 03:10
	104264-1-BLK		BLK	W	104264	220643	04/04/2025 12:55	04/08/2025 03:05
	25040210-001 S	910	MS	W	104264	220643	04/04/2025 12:55	04/08/2025 03:32
	25040324-001 S	168	MS	W	104264	220643	04/04/2025 12:55	04/08/2025 08:12
	25040210-001 SD	910	MSD	W	104264	220643	04/04/2025 12:55	04/08/2025 03:37
EPA 624 .1	25040313-002	87	Initial	W	104306	220660	04/06/2025 12:05	04/06/2025 16:15
	25040313-003	92	Initial	W	104306	220660	04/06/2025 12:05	04/06/2025 16:36
	104306-1-BKS		BKS	W	104306	220660	04/06/2025 12:05	04/06/2025 12:47
	104306-1-BLK		BLK	W	104306	220660	04/06/2025 12:05	04/06/2025 15:54
	104306-1-BSD		BSD	W	104306	220660	04/06/2025 12:05	04/06/2025 13:07
	25040313-002 S	88	MS	W	104306	220660	04/06/2025 12:05	04/07/2025 00:14
	25040313-002 SD	88	MSD	W	104306	220660	04/06/2025 12:05	04/07/2025 00:35
EPA 624 .1	25040313-001	78	Initial	W	104314	220676	04/08/2025 13:28	04/08/2025 19:37
	25040313-002	84	Initial	W	104314	220676	04/08/2025 13:28	04/08/2025 18:13
	25040313-003	93	Initial	W	104314	220676	04/08/2025 13:28	04/08/2025 18:34
	104314-1-BKS		BKS	W	104314	220676	04/08/2025 13:28	04/08/2025 14:43
	104314-1-BLK		BLK	W	104314	220676	04/08/2025 13:28	04/08/2025 16:49
	104314-1-BSD		BSD	W	104314	220676	04/08/2025 13:28	04/08/2025 15:04
	25032612-001 S	154	MS	W	104314	220676	04/08/2025 13:28	04/08/2025 15:46
	25032612-001 SD	154	MSD	W	104314	220676	04/08/2025 13:28	04/08/2025 16:07
SM 2540D -2015	25040313-002	82	Initial	W	220554	220554	04/03/2025 16:05	04/03/2025 16:05
	220554-1-BKS		BKS	W	220554	220554	04/03/2025 16:05	04/03/2025 16:05
	220554-1-BLK		BLK	W	220554	220554	04/03/2025 16:05	04/03/2025 16:05
	25040110-001 D	440	MD	W	220554	220554	04/03/2025 16:05	04/03/2025 16:05
	25040208-001 D	943	MD	W	220554	220554	04/03/2025 16:05	04/03/2025 16:05
SM 5210B -2016	25040313-002	81	Initial	W	220867	220867	04/04/2025 13:47	04/04/2025 13:47
SW-846 8260 D	25040313-001	80	Initial	W	104348	220762	04/11/2025 08:57	04/11/2025 14:36
	104348-1-BKS		BKS	W	104348	220762	04/11/2025 08:57	04/11/2025 09:39
	104348-1-BLK		BLK	W	104348	220762	04/11/2025 08:57	04/11/2025 11:28
	104348-1-BSD		BSD	W	104348	220762	04/11/2025 08:57	04/11/2025 09:59
	25040913-001 S	533	MS	W	104348	220762	04/11/2025 08:57	04/11/2025 18:25
	25040913-001 SD	533	MSD	W	104348	220762	04/11/2025 08:57	04/11/2025 18:46
	104437-1-BKS		BKS	W	104437	220925	04/17/2025 21:50	04/17/2025 22:11
	104437-1-BLK		BLK	W	104437	220925	04/17/2025 21:50	04/17/2025 22:52
	25041403-001 S	842	MS	W	104437	220925	04/17/2025 21:50	04/18/2025 03:23
	25041403-001 SD	842	MSD	W	104437	220925	04/17/2025 21:50	04/18/2025 03:44
	25040313-001	80	Reanalysis	W	104437	220925	04/17/2025 21:50	04/17/2025 23:13

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: SM 2540D -2015

Seq Number: 220554 Matrix: Water
MB Sample ID: 220554-1-BLK LCS Sample ID: 220554-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Total Suspended Solids	<0.4000	61.90	62.00	100	88-109	mg/L	

Analytical Method: EPA 200.8

Prep Method: E200.8_PREP
Seq Number: 220643 Matrix: Water Date Prep: 04/04/25
MB Sample ID: 104264-1-BLK LCS Sample ID: 104264-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	51.39	103	85-115	ug/L	
Lead	<0.6600	50.00	50.98	102	85-115	ug/L	
Nickel	<0.9500	50.00	50.62	101	85-115	ug/L	
Zinc	<7.100	100	100.8	101	85-115	ug/L	

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 624 .1 Prep Method: E624PREP
Seq Number: 220660 Matrix: Water Date Prep: 04/06/25
MB Sample ID: 104306-1-BLK LCS Sample ID: 104306-1-BKS LCSD Sample ID: 104306-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acrolein	<1.700	50.00	52.62	105	51.86	104	60-140	1	20	ug/L	
Acrylonitrile	<1.500	50.00	55.62	111	53.31	107	60-140	4	20	ug/L	
Dichlorodifluoromethane	<1.000	50.00	38.65	77	34.46	69	37-142	11	20	ug/L	
Chloromethane	<1.000	50.00	42.54	85	38.95	78	1-205	9	20	ug/L	
Vinyl Chloride	<1.000	50.00	37.29	75	33.00	66	5-195	12	20	ug/L	
Bromomethane	<1.000	50.00	39.61	79	37.24	74	15-185	6	20	ug/L	
Chloroethane	<1.000	50.00	44.98	90	40.75	82	40-160	10	20	ug/L	
Trichlorofluoromethane	<1.000	50.00	40.34	81	38.00	76	50-150	6	20	ug/L	
2-Chloroethyl Vinyl Ether	<1.000	50.00	49.38	99	50.80	102	1-225	3	20	ug/L	
1,1-Dichloroethene	<1.000	50.00	55.30	111	47.45	95	50-150	15	20	ug/L	
Methylene Chloride	<1.000	50.00	47.91	96	45.33	91	60-140	6	20	ug/L	
trans-1,2-dichloroethene	<1.000	50.00	47.98	96	44.79	90	70-130	7	20	ug/L	
1,1-Dichloroethane	<1.000	50.00	47.19	94	43.81	88	70-130	7	20	ug/L	
Chloroform	<1.000	50.00	48.63	97	45.72	91	70-135	6	20	ug/L	
1,1,1-Trichloroethane	<1.000	50.00	49.79	100	46.04	92	70-130	8	20	ug/L	
Carbon Tetrachloride	<1.000	50.00	52.20	104	47.93	96	70-130	9	20	ug/L	
Benzene	<1.000	50.00	48.58	97	46.18	92	65-135	5	20	ug/L	
1,2-Dichloroethane	<1.000	50.00	51.41	103	48.97	98	70-130	5	20	ug/L	
Trichloroethene	<1.000	50.00	50.52	101	47.44	95	65-135	6	20	ug/L	
1,2-Dichloropropane	<1.000	50.00	50.12	100	47.33	95	35-165	6	20	ug/L	
Bromodichloromethane	<1.000	50.00	52.20	104	49.05	98	65-135	6	20	ug/L	
cis-1,3-Dichloropropene	<1.000	50.00	54.85	110	52.66	105	25-175	4	20	ug/L	
Toluene	<1.000	50.00	48.62	97	46.45	93	70-130	5	20	ug/L	
trans-1,3-dichloropropene	<1.000	50.00	55.41	111	53.25	107	50-150	4	20	ug/L	
1,1,2-Trichloroethane	<1.000	50.00	51.11	102	49.01	98	70-130	4	20	ug/L	
Tetrachloroethylene	<1.000	50.00	48.11	96	46.31	93	70-130	4	20	ug/L	
Dibromochloromethane	<1.000	50.00	53.57	107	51.56	103	70-135	4	20	ug/L	
Chlorobenzene	<1.000	50.00	49.90	100	47.97	96	65-135	4	20	ug/L	
Ethylbenzene	<1.000	50.00	52.65	105	49.15	98	60-140	7	20	ug/L	
Bromoform	<1.000	50.00	58.24	116	57.42	115	70-130	1	20	ug/L	
1,1,2,2-Tetrachloroethane	<1.000	50.00	53.73	107	55.24	110	60-140	3	20	ug/L	
1,3-Dichlorobenzene	<1.000	50.00	54.87	110	52.50	105	70-130	4	20	ug/L	
1,4-Dichlorobenzene	<1.000	50.00	53.67	107	52.03	104	65-135	3	20	ug/L	
1,2-Dichlorobenzene	<1.000	50.00	55.76	112	53.99	108	65-135	3	20	ug/L	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units
Dibromofluoromethane	101		99		97		95-109	%
4-Bromofluorobenzene	105		99		99		74-124	%
Toluene-D8	100		103		102		94-108	%

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QC Summary

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Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 624 .1 Prep Method: E624PREP
Seq Number: 220676 Matrix: Water Date Prep: 04/08/25
MB Sample ID: 104314-1-BLK LCS Sample ID: 104314-1-BKS LCSD Sample ID: 104314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
1,4-Dioxane	<26.00	20.00	19.24	96	18.39	92	59-164	5	20	ug/L	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units
Dibromofluoromethane	104		104		104		95-109	%
4-Bromofluorobenzene	0	*	0	*	0	*	74-124	%
Toluene-D8	96		96		96		94-108	%

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 624 .1 Prep Method: E624PREP
Seq Number: 220660 Matrix: Waste Water Date Prep: 04/06/25
Parent Sample ID: 25040313-002 MS Sample ID: 25040313-002 S MSD Sample ID: 25040313-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acrolein	<1.700	50.00	53.16	106	54.27	109	40-160	2	60	ug/L	
Acrylonitrile	<1.500	50.00	51.05	102	51.76	104	40-160	1	60	ug/L	
Dichlorodifluoromethane	<0.2300	50.00	37.18	74	37.70	75	47-138	1	28	ug/L	
Chloromethane	<0.3300	50.00	43.18	86	43.22	86	1-273	0	60	ug/L	
Vinyl Chloride	<0.3400	50.00	47.78	96	45.71	91	1-251	4	66	ug/L	
Bromomethane	<0.6000	50.00	34.83	70	39.28	79	1-242	12	61	ug/L	
Chloroethane	<0.2300	50.00	46.41	93	46.42	93	14-230	0	78	ug/L	
Trichlorofluoromethane	<0.1700	50.00	43.80	88	41.51	83	17-181	5	84	ug/L	
2-Chloroethyl Vinyl Ether	<1.000	50.00	47.72	95	45.44	91	1-305	5	71	ug/L	
1,1-Dichloroethene	<0.1800	50.00	49.42	99	48.79	98	1-234	1	32	ug/L	
Methylene Chloride	<0.3400	50.00	48.62	97	49.02	98	1-221	1	28	ug/L	
trans-1,2-dichloroethene	<0.2900	50.00	48.92	98	49.01	98	54-156	0	45	ug/L	
1,1-Dichloroethane	<0.1900	50.00	48.36	97	47.88	96	59-155	1	40	ug/L	
Chloroform	<0.2100	50.00	50.32	101	49.60	99	51-138	1	54	ug/L	
1,1,1-Trichloroethane	<0.1600	50.00	51.54	103	50.14	100	52-162	3	36	ug/L	
Carbon Tetrachloride	<0.2200	50.00	53.85	108	52.62	105	70-140	2	41	ug/L	
Benzene	<0.1900	50.00	51.24	102	49.77	100	37-151	3	61	ug/L	
1,2-Dichloroethane	<0.1800	50.00	52.45	105	51.76	104	49-155	1	49	ug/L	
Trichloroethene	<0.1900	50.00	52.16	104	51.04	102	70-157	2	48	ug/L	
1,2-Dichloropropane	<0.1700	50.00	51.08	102	50.34	101	1-210	1	55	ug/L	
Bromodichloromethane	<0.1800	50.00	53.53	107	52.62	105	35-155	2	56	ug/L	
cis-1,3-Dichloropropene	<0.1500	50.00	53.99	108	53.34	107	1-227	1	58	ug/L	
Toluene	<0.5200	50.00	51.49	103	49.63	99	47-150	4	41	ug/L	
trans-1,3-dichloropropene	<0.1500	50.00	53.53	107	53.13	106	17-183	1	86	ug/L	
1,1,2-Trichloroethane	<0.2600	50.00	52.07	104	50.92	102	52-150	2	45	ug/L	
Tetrachloroethylene	<0.2300	50.00	50.83	102	49.03	98	64-148	4	39	ug/L	
Dibromochloromethane	<0.1800	50.00	54.73	109	51.77	104	53-149	6	50	ug/L	
Chlorobenzene	<0.2300	50.00	52.80	106	50.02	100	37-160	5	53	ug/L	
Ethylbenzene	<0.1500	50.00	55.69	111	52.48	105	37-162	6	63	ug/L	
Bromoform	<0.1700	50.00	58.96	118	56.32	113	45-169	5	42	ug/L	
1,1,2,2-Tetrachloroethane	<0.2700	50.00	53.71	107	50.17	100	46-157	7	61	ug/L	
1,3-Dichlorobenzene	<0.2300	50.00	54.75	110	51.24	102	59-156	7	43	ug/L	
1,4-Dichlorobenzene	<0.2600	50.00	53.02	106	49.61	99	18-190	7	57	ug/L	
1,2-Dichlorobenzene	<0.2000	50.00	54.46	109	51.74	103	18-190	5	57	ug/L	

Surrogate	MS Result	MS Flag	MSD Result	MSD Flag	Limits	Units
Dibromofluoromethane	98		99		95-109	%
4-Bromofluorobenzene	99		96		74-124	%
Toluene-D8	100		100		94-108	%

PHASE SEPARATION SCIENCE

QC Summary

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Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: SW-846 8260 D Prep Method: SW5030B
Seq Number: 220762 Matrix: Water Date Prep: 04/11/25
MB Sample ID: 104348-1-BLK LCS Sample ID: 104348-1-BKS LCSD Sample ID: 104348-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Acetone	<1.900	50.00	50.73	101	45.03	90	51-160	12	20	ug/L	
Benzene	<0.2500	50.00	51.60	103	50.06	100	79-118	3	20	ug/L	
Bromochloromethane	<0.3000	50.00	50.37	101	50.05	100	78-122	1	20	ug/L	
Bromodichloromethane	<0.2800	50.00	54.66	109	53.27	107	82-123	3	20	ug/L	
Bromoform	<0.3700	50.00	59.03	118	58.40	117	70-141	1	20	ug/L	
Bromomethane	<0.4800	50.00	39.85	80	38.83	78	50-142	3	20	ug/L	
2-Butanone (MEK)	<2.400	50.00	53.17	106	49.99	100	58-139	6	20	ug/L	
Carbon Disulfide	<0.4300	50.00	52.05	104	48.62	97	73-125	7	20	ug/L	
Carbon tetrachloride	<0.2200	50.00	53.84	108	51.43	103	77-126	5	20	ug/L	
Chlorobenzene	<0.2700	50.00	50.84	102	49.76	100	80-120	2	20	ug/L	
Chloroethane	<0.3700	50.00	45.60	91	43.63	87	70-122	4	20	ug/L	
Chloroform	<0.2700	50.00	51.53	103	49.73	99	77-115	4	20	ug/L	
Chloromethane	<0.3600	50.00	40.08	80	37.72	75	45-138	6	20	ug/L	
Cyclohexane	<0.3000	50.00	55.29	111	52.55	105	80-125	5	20	ug/L	
1,2-Dibromo-3-chloropropane	<0.4300	50.00	61.17	122	62.40	125	75-138	2	20	ug/L	
Dibromochloromethane	<0.3500	50.00	55.36	111	54.37	109	84-130	2	20	ug/L	
1,2-Dibromoethane	<0.3300	50.00	54.23	108	53.54	107	80-122	1	20	ug/L	
1,2-Dichlorobenzene	<0.3100	50.00	52.43	105	53.65	107	80-128	2	20	ug/L	
1,3-Dichlorobenzene	<0.2900	50.00	52.32	105	53.01	106	80-125	1	20	ug/L	
Dichlorodifluoromethane	<0.4400	50.00	31.64	63	29.12	58	63-135	8	20	ug/L	L
1,4-Dichlorobenzene	<0.3400	50.00	50.53	101	51.53	103	78-122	2	20	ug/L	
1,1-Dichloroethane	<0.2400	50.00	51.14	102	49.61	99	73-119	3	20	ug/L	
1,2-Dichloroethane	<0.2300	50.00	53.57	107	51.88	104	75-120	3	20	ug/L	
cis-1,2-Dichloroethene	<0.2500	50.00	51.41	103	49.96	100	77-120	3	20	ug/L	
1,2-Dichloropropane	<0.2600	50.00	52.38	105	51.67	103	78-122	1	20	ug/L	
cis-1,3-Dichloropropene	<0.3400	50.00	58.01	116	56.14	112	73-133	3	20	ug/L	
trans-1,3-Dichloropropene	<0.4300	50.00	57.38	115	56.76	114	75-117	1	20	ug/L	
trans-1,2-Dichloroethene	<0.2200	50.00	51.04	102	49.64	99	76-121	3	20	ug/L	
Ethylbenzene	<0.3000	50.00	54.65	109	53.12	106	82-125	3	20	ug/L	
2-Hexanone (MBK)	<2.000	50.00	59.55	119	55.24	110	59-144	8	20	ug/L	
Isopropylbenzene	<0.3200	50.00	54.31	109	54.73	109	80-131	1	20	ug/L	
Methyl Acetate	<0.5100	50.00	60.14	120	57.88	116	71-128	4	20	ug/L	
Methylcyclohexane	<0.2800	50.00	53.41	107	51.27	103	81-122	4	20	ug/L	
Methylene chloride	1.050	50.00	52.78	106	48.71	97	79-120	8	20	ug/L	
4-Methyl-2-Pentanone (MIBK)	<1.600	50.00	67.15	134	66.47	133	71-125	1	20	ug/L	H
Methyl-t-Butyl Ether	<0.3200	50.00	56.42	113	56.98	114	74-118	1	20	ug/L	
Naphthalene	<0.6000	50.00	51.36	103	52.63	105	59-141	2	20	ug/L	
Styrene	<0.3300	50.00	57.01	114	56.17	112	85-128	1	20	ug/L	
1,1,2,2-Tetrachloroethane	<0.2800	50.00	52.05	104	53.43	107	74-131	3	20	ug/L	
Tetrachloroethene	<0.4300	50.00	51.50	103	49.81	100	73-123	3	20	ug/L	
Toluene	<0.2400	50.00	51.27	103	50.69	101	78-118	1	20	ug/L	
1,2,3-Trichlorobenzene	<0.3000	50.00	55.22	110	56.10	112	80-136	2	20	ug/L	
1,2,4-Trichlorobenzene	<0.7600	50.00	55.56	111	56.44	113	77-137	2	20	ug/L	
1,1,1-Trichloroethane	<0.3300	50.00	53.10	106	51.15	102	74-119	4	20	ug/L	
Trichloroethene	<0.2600	50.00	52.17	104	50.25	101	78-120	4	20	ug/L	
1,1,2-Trichloroethane	<0.2700	50.00	51.80	104	51.41	103	81-121	1	20	ug/L	
Trichlorofluoromethane	<0.3300	50.00	41.50	83	39.47	79	77-119	5	20	ug/L	
1,1,2-Trichlorotrifluoroethane	<0.3200	50.00	56.52	113	50.99	102	71-121	10	20	ug/L	
Vinyl chloride	<0.3600	50.00	37.88	76	38.10	76	46-146	1	20	ug/L	
m&p-Xylene	<0.4660	100	109.8	110	107.1	107	83-124	2	20	ug/L	
o-Xylene	<0.3200	50.00	54.68	109	53.65	107	83-125	2	20	ug/L	

PHASE SEPARATION SCIENCE

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: SW-846 8260 D Prep Method: SW5030B
Seq Number: 220762 Matrix: Water Date Prep: 04/11/25
MB Sample ID: 104348-1-BLK LCS Sample ID: 104348-1-BKS LCSD Sample ID: 104348-1-BSD

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units
4-Bromofluorobenzene	108		99		101		85-122	%
Dibromofluoromethane	100		101		99		96-107	%
Toluene-D8	100		100		100		95-105	%

Analytical Method: SW-846 8260 D Prep Method: SW5030B
Seq Number: 220925 Matrix: Water Date Prep: 04/17/25
MB Sample ID: 104437-1-BLK LCS Sample ID: 104437-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
1,1-Dichloroethene	<0.3900	50.00	57.98	116	70-122	ug/L	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units
4-Bromofluorobenzene	106		99		85-122	%
Dibromofluoromethane	104		102		96-107	%
Toluene-D8	103		101		95-105	%

Phase Separation Science

QC Summary

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Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 200.8
CCV Sample Id: CCV 4 Seq Number: 220643
Analyzed Date: 04/08/25 02:17

Parameter	CCV %Rec	Limits	Flag
Copper	103	85-115	
Lead	110	85-115	
Nickel	102	85-115	
Zinc	102	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 5 Seq Number: 220643
Analyzed Date: 04/08/25 03:21

Parameter	CCV %Rec	Limits	Flag
Copper	106	85-115	
Lead	103	85-115	
Nickel	104	85-115	
Zinc	105	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 6 Seq Number: 220643
Analyzed Date: 04/08/25 04:24

Parameter	CCV %Rec	Limits	Flag
Copper	108	85-115	
Lead	102	85-115	
Nickel	107	85-115	
Zinc	110	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 9 Seq Number: 220643
Analyzed Date: 04/08/25 07:20

Parameter	CCV %Rec	Limits	Flag
Copper	104	85-115	
Lead	104	85-115	
Nickel	103	85-115	
Zinc	105	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 10 Seq Number: 220643
Analyzed Date: 04/08/25 08:38

Parameter	CCV %Rec	Limits	Flag
Copper	106	85-115	
Lead	102	85-115	
Nickel	106	85-115	
Zinc	109	85-115	

Analytical Method: EPA 200.8
Parent Sample Id: ICV 1 Seq Number: 220643
Analyzed Date: 04/07/25 21:37

Parameter	ICV %Rec	Limits	Flag
Copper	103	90-110	
Lead	106	90-110	
Nickel	102	90-110	
Zinc	103	90-110	

Analytical Method: EPA 624 .1
CCV Sample Id: CCV, 624-1 Seq Number: 220660
Analyzed Date: 04/06/25 12:26

Parameter	CCV %Rec	Limits	Flag
Acrolein	99	60-140	
Acrylonitrile	104	60-140	
Dichlorodifluoromethane	77	37-142	
Chloromethane	83	1-205	
Vinyl Chloride	84	5-195	
Bromomethane	75	15-185	
Chloroethane	90	40-160	
Trichlorofluoromethane	79	50-150	
2-Chloroethyl Vinyl Ether	92	1-225	
1,1-Dichloroethene	114	50-150	
Methylene Chloride	94	60-140	
trans-1,2-dichloroethene	92	70-130	
1,1-Dichloroethane	92	70-130	
Chloroform	96	70-135	
1,1,1-Trichloroethane	97	70-130	
Carbon Tetrachloride	101	70-130	

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Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 624 .1
CCV Sample Id: CCV, 624-1 Seq Number: 220660
Analyzed Date: 04/06/25 12:26

Parameter	CCV %Rec	Limits	Flag
Benzene	95	65-135	
1,2-Dichloroethane	102	70-130	
Trichloroethene	98	65-135	
1,2-Dichloropropane	97	35-165	
Bromodichloromethane	102	65-135	
cis-1,3-Dichloropropene	107	25-175	
Toluene	96	70-130	
trans-1,3-dichloropropene	106	50-150	
1,1,2-Trichloroethane	98	70-130	
Tetrachloroethylene	95	70-130	
Dibromochloromethane	106	70-135	
Chlorobenzene	99	65-135	
Ethylbenzene	105	60-140	
Bromoform	114	70-130	
1,1,2,2-Tetrachloroethane	106	60-140	
1,3-Dichlorobenzene	110	70-130	
1,4-Dichlorobenzene	108	65-135	
1,2-Dichlorobenzene	110	65-135	

Surrogate		Limits	Flag
Dibromofluoromethane	99	95-109	
4-Bromofluorobenzene	100	74-124	
Toluene-D8	104	94-108	

Analytical Method: EPA 624 .1
CCV Sample Id: CCV, VOC-1 Seq Number: 220676
Analyzed Date: 04/08/25 14:22

Parameter	CCV %Rec	Limits	Flag
1,4-Dioxane	2	59-164	X

Surrogate		Limits	Flag
Dibromofluoromethane	104	95-109	
Toluene-D8	96	94-108	

Analytical Method: EPA 624 .1
Parent Sample Id: ICV-01 Seq Number: 218612
Analyzed Date: 12/28/24 17:52

Parameter	ICV %Rec	Limits	Flag
1,4-Dioxane	2	54-145	X

Surrogate		Limits	Flag
Dibromofluoromethane	101	95-109	
Toluene-D8	97	94-108	

Analytical Method: EPA 624 .1
Parent Sample Id: ICV-01 Seq Number: 220089
Analyzed Date: 03/10/25 18:28

Parameter	ICV %Rec	Limits	Flag
Acrolein	93	60-140	
Acrylonitrile	97	60-140	
Dichlorodifluoromethane	85	37-142	
Chloromethane	90	1-205	
Vinyl Chloride	87	5-195	
Bromomethane	90	15-185	
Chloroethane	90	40-160	

PHASE SEPARATION SCIENCE

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: EPA 624 .1
Parent Sample Id: ICV-01 Seq Number: 220089
Analyzed Date: 03/10/25 18:28

Parameter	ICV %Rec	Limits	Flag
Trichlorofluoromethane	91	50-150	
2-Chloroethyl Vinyl Ether	102	1-225	
1,1-Dichloroethene	93	50-150	
Methylene Chloride	94	60-140	
trans-1,2-dichloroethene	97	70-130	
1,1-Dichloroethane	93	70-130	
Chloroform	93	70-135	
1,1,1-Trichloroethane	96	70-130	
Carbon Tetrachloride	97	70-130	
Benzene	94	65-135	
1,2-Dichloroethane	92	70-130	
Trichloroethene	96	65-135	
1,2-Dichloropropane	94	35-165	
Bromodichloromethane	95	65-135	
cis-1,3-Dichloropropene	102	25-175	
Toluene	95	70-130	
trans-1,3-dichloropropene	99	50-150	
1,1,2-Trichloroethane	91	70-130	
Tetrachloroethylene	94	70-130	
Dibromochloromethane	95	70-135	
Chlorobenzene	92	65-135	
Ethylbenzene	97	60-140	
Bromoform	98	70-130	
1,1,2,2-Tetrachloroethane	86	60-140	
1,3-Dichlorobenzene	92	70-130	
1,4-Dichlorobenzene	89	65-135	
1,2-Dichlorobenzene	91	65-135	

Surrogate		Limits	Flag
Dibromofluoromethane	101	95-109	
4-Bromofluorobenzene	98	74-124	
Toluene-D8	101	94-108	

Analytical Method: SW-846 8260 D
CCV Sample Id: CCV, VOC-1 Seq Number: 220762
Analyzed Date: 04/11/25 09:18

Parameter	CCV %Rec	Limits	Flag
Acetone	109	80-120	
Benzene	104	80-120	
Bromochloromethane	101	80-120	
Bromodichloromethane	111	80-120	
Bromoform	117	80-120	
Bromomethane	77	80-120	X
2-Butanone (MEK)	116	80-120	
Carbon Disulfide	100	80-120	
Carbon tetrachloride	108	80-120	
Chlorobenzene	102	80-120	
Chloroethane	93	80-120	

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Project Name Kop-Flex
PSS Project No.: 25040313

Analytical Method: SW-846 8260 D
CCV Sample Id: CCV, VOC-1 Seq Number: 220762
Analyzed Date: 04/11/25 09:18

Parameter	CCV %Rec	Limits	Flag
Chloroform	104	80-120	
Chloromethane	81	80-120	
Cyclohexane	113	80-120	
1,2-Dibromo-3-chloropropane	122	80-120	X
Dibromochloromethane	110	80-120	
1,2-Dibromoethane	106	80-120	
1,2-Dichlorobenzene	105	80-120	
1,3-Dichlorobenzene	105	80-120	
Dichlorodifluoromethane	67	80-120	X
1,4-Dichlorobenzene	101	80-120	
1,1-Dichloroethane	104	80-120	
1,2-Dichloroethane	109	80-120	
cis-1,2-Dichloroethene	102	80-120	
1,2-Dichloropropane	107	80-120	
cis-1,3-Dichloropropene	116	80-120	
trans-1,3-Dichloropropene	114	80-120	
trans-1,2-Dichloroethene	101	80-120	
Ethylbenzene	110	80-120	
2-Hexanone (MBK)	125	80-120	X
Isopropylbenzene	109	80-120	
Methyl Acetate	120	80-120	
Methylcyclohexane	109	80-120	
Methylene chloride	102	80-120	
4-Methyl-2-Pentanone (MIBK)	137	80-120	X
Methyl-t-Butyl Ether	112	80-120	
Naphthalene	100	80-120	
Styrene	114	80-120	
1,1,2,2-Tetrachloroethane	104	80-120	
Tetrachloroethene	102	80-120	
Toluene	104	80-120	
1,2,3-Trichlorobenzene	107	80-120	
1,2,4-Trichlorobenzene	108	80-120	
1,1,1-Trichloroethane	107	80-120	
Trichloroethene	103	80-120	
1,1,2-Trichloroethane	103	80-120	
Trichlorofluoromethane	83	80-120	
1,1,2-Trichlorotrifluoroethane	136	80-120	X
Vinyl chloride	80	80-120	
m&p-Xylene	111	80-120	
o-Xylene	111	80-120	

Surrogate		Limits	Flag
4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	101	80-120	
Toluene-D8	101	80-120	

Analytical Method: SW-846 8260 D
CCV Sample Id: CCV, VOC-1 Seq Number: 220925
Analyzed Date: 04/17/25 21:50

Parameter	CCV %Rec	Limits	Flag
1,1-Dichloroethene	124	80-120	X

Surrogate		Limits	Flag
4-Bromofluorobenzene	101	80-120	
Dibromofluoromethane	102	80-120	
Toluene-D8	101	80-120	

Phase Separation Science

CHAIN OF CUSTODY FORM

All fields must be completed accurately. Shaded sections for lab use only.

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① PSS CLIENT: WSP USA OFFICE LOCATION: Herndon, VA

PSS Work Order #: 25040313 PAGE 1 OF 1

BILL TO (if different): PHONE #: 703-709-6500

CONTACT: Eric Johnson EMAIL: eric.johnson@wsp.com

PROJECT NAME: Kop-Flex PROJECT #: 31405608.010/02

SITE LOCATION: Hanover, MD P.O. #:

SAMPLER(S): Thea Torrisi DW CERT #:

Matrix Codes:
SW=Surface Water DW=Drinking Water GW=Ground Water WW=Waste Water O=Oil S=Soil SOL=Solid A=Air WI=Wipe

Preservative Codes: 1 - HCL; 2 - H_2SO_4; 3 - HNO_3; 4 - NaOH; 5 - E624KIT; 6 - ICE; 7 - Sodium Thiosulfate; 8 - Ascorbic Acid; 9 - TerraCore Kit

② PSS ID	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	VOCs (624.1)	TCL VOCs (8260D)	1,4-Dioxane (624.1)	BOD (SM5210B)	TSS (SM2540D)	Total Metals (200.8)					
Preservatives Use Codes ③							1,6	1,6	1,6	6	6	3,6					
1	Influent - VSP1	04/03/25	1140	GW	6	G		3	3								
2	Effluent - VSP4	04/03/25	1110	WW	9	G	3		3	1	1	1					
3	Trip Blank - 040325	—	—	TB	4	G	2		2								

⑤ Relinquished By:	Date	Time	Received By:
(1) [signature] /WSP	04/03/25	1437	[signature]
(2)			
(3)			
(4)			

④ Requested TAT (One TAT per COC): ☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☒ Other

STATE RESULTS REPORTED TO: ☐ MD ☐ DE ☐ PA ☐ VA ☐ WV ☐ OTHER

COMPLIANCE? ☐ DW ☐ WW

EDD FORMAT TYPE

Special Instructions:
* Standard 10-Day TAT
* Metals: Cu, Pb, Ni, Zn

Ice Present: Pres
Custody Seal: Cooler Intact
Coolers: 1 Temp: 6.4-7.2°C
Shipping Carrier: Client
Temp Blank: 7.3°C

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Sample Receipt Checklist

Project Name: Kop-Flex
PSS Project No.: 25040313

Client Name	WSP USA - Herndon	**Received By**	Tyler Enwright
Disposal Date	05/08/2025	**Date Received**	04/03/2025 02:37 PM
		Delivered By	Client
		Tracking #	Not Applicable
		Logged In By	Tyler Enwright

Shipping Container(s)

# of Coolers	1	Ice	Present
Custody Seal(s) Intact?	N/A	Temp (°C)	7.2
Seal(s) Signed / Dated?	N/A	Temp Blank Present	Yes

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Thea Torrisi
Chain of Custody	Yes	MD DW Cert. No.	N/A

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)?	Yes	Total # of Samples Received	3
		Total # of Containers Received	19

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	N/A
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes
624 VOC (Rcvd at least one unpreserved VOA vial)		Yes
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, the sample ID, preservative added, documentation of any client notification, and subsequent client instructions are noted below. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C, and <=4°C for EPA 524. Samples that are received by the lab on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that thermal preservation has begun.

Samples Inspected/Checklist Completed By: Tyler Enwright Date: 04/03/2025
Tyler Enwright

PM Review and Approval: Amber J Confer Date: 04/04/2025
Amber Confer

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040321

April 17, 2025

Eric Johnson
WSP USA - Herndon
13530 Dulles Technology Dr, Ste 300
Herndon, VA 20171

Reference: PSS Project No: **25040321**
Project Name: Kop-Flex
Project Location: Hanover, MD
Project ID.: 31405608.010/02.02

Dear Eric Johnson:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **25040321**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 8, 2025, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

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PHASE SEPARATION SCIENCE

Sample Summary

Project Name: Kop-Flex

PSS Project No.: 25040321

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/03/2025 at 02:37 pm
Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
25040321-001	VSP-1-TOT	WASTE WATER	04/03/25 11:45
25040321-002	VSP-1-FILT	WASTE WATER	04/03/25 11:48
25040321-003	VSP-2-TOT	WASTE WATER	04/03/25 11:50
25040321-004	VSP-2-FILT	WASTE WATER	04/03/25 11:53
25040321-005	VSP-3-TOT	WASTE WATER	04/03/25 11:55
25040321-006	VSP-3-FILT	WASTE WATER	04/03/25 11:57
25040321-007	VSP-4-FILT	WASTE WATER	04/03/25 12:02
25040321-008	SINK-TOT	WASTE WATER	04/03/25 12:07
25040321-009	SINK-FILT	WASTE WATER	04/03/25 12:09

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Report Information

Project Name: Kop-Flex

PSS Project No.: 25040321

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Samples prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements

Standard Flags/Abbreviations:

B	A target analyte was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C	Results pending final confirmation.
Dil	Dilution Factor is the factor applied to the reported data due to dilution of the sample aliquot.
E	The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
F	RPD exceeded the laboratory control limits.
Fail	The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
H	Recovery of BKS, BSD or both exceeded the laboratory control limits.
J	The target analyte was positively identified below the reporting limit but greater than the MDL.
L	Recovery of BKS, BSD or both below the laboratory control limits.
MCL	The Maximum Contaminant Level is the highest level of a contaminant that is allowed in drinking water as determined by the EPA.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level.
ND	Not Detected at or above the reporting limit (or MDL if shown).
RL	PSS Reporting Limit.
X	Recovery outside of QC criteria.
%Rec	Percent Recovery

QC Types:

CCV	Continuing Calibration Verification	MD	Sample Duplicate
ICV	Initial Calibration Verification	MRL	Minimum Reporting Level
LCS / BKS	Laboratory Control Sample	MS	Matrix Spike
LCSD / BSD	Laboratory Control Sample Duplicate	MSD	Matrix Spike Duplicate
LLCCV	Low Level Continuing Calibration Verification	PDS	Post Digestion Spike
MB / BLK	Method Blank	RPD	Relative Percent Difference

Certifications:

Authority	Program	Identification Number
Maryland - MDE	State - Certification of Drinking Water Laboratories	179
MWAA	LDBE	LD1997-0041-2015
Pennsylvania - PADEP	NELAP	68-03330
USCG	NSWC	Accepted Laboratory
USDA	Regulated Soil Permit	P330-12-00268
Virginia - VELAP	NELAP	460156
West Virginia - WVDEP	State - Certified Laboratories	303

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25040321

Sample ID: VSP-1-TOT **PSS Sample ID: 25040321-001**
Date/Time Sampled: 04/03/2025 11:45 **Matrix: WASTE WATER**

Total Metals Analytical Method: EPA 200.8 Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**5.9**	ug/L	1.0		1	0.98	04/04/25	04/08/25 03:53	1059

Sample ID: VSP-1-FILT **PSS Sample ID: 25040321-002**
Date/Time Sampled: 04/03/2025 11:48 **Matrix: WASTE WATER**

Dissolved Metals Analytical Method: EPA 200.8 Dissolved Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**5.2**	ug/L	1.0		1	0.98	04/09/25	04/09/25 22:19	1059

Sample ID: VSP-2-TOT **PSS Sample ID: 25040321-003**
Date/Time Sampled: 04/03/2025 11:50 **Matrix: WASTE WATER**

Total Metals Analytical Method: EPA 200.8 Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**5.8**	ug/L	1.0		1	0.98	04/04/25	04/08/25 03:58	1059

Sample ID: VSP-2-FILT **PSS Sample ID: 25040321-004**
Date/Time Sampled: 04/03/2025 11:53 **Matrix: WASTE WATER**

Dissolved Metals Analytical Method: EPA 200.8 Dissolved Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**5.2**	ug/L	1.0		1	0.98	04/09/25	04/09/25 22:35	1059

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Project Name: Kop-Flex
PSS Project No.: 25040321

Sample ID: VSP-3-TOT **PSS Sample ID: 25040321-005**
Date/Time Sampled: 04/03/2025 11:55 **Matrix: WASTE WATER**

Total Metals — Analytical Method: EPA 200.8 — Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**6.0**	ug/L	1.0		1	0.98	04/04/25	04/08/25 04:03	1059

Sample ID: VSP-3-FILT **PSS Sample ID: 25040321-006**
Date/Time Sampled: 04/03/2025 11:57 **Matrix: WASTE WATER**

Dissolved Metals — Analytical Method: EPA 200.8 Dissolved — Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**5.4**	ug/L	1.0		1	0.98	04/09/25	04/09/25 22:40	1059

Sample ID: VSP-4-FILT **PSS Sample ID: 25040321-007**
Date/Time Sampled: 04/03/2025 12:02 **Matrix: WASTE WATER**

Dissolved Metals — Analytical Method: EPA 200.8 Dissolved — Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**3.9**	ug/L	1.0		1	0.98	04/09/25	04/09/25 22:46	1059

Sample ID: SINK-TOT **PSS Sample ID: 25040321-008**
Date/Time Sampled: 04/03/2025 12:07 **Matrix: WASTE WATER**

Total Metals — Analytical Method: EPA 200.8 — Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**39.6**	ug/L	1.00		1	0.98	04/04/25	04/08/25 04:09	1059

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Project Name: Kop-Flex

PSS Project No.: 25040321

Sample ID: SINK-FILT **PSS Sample ID: 25040321-009**

Date/Time Sampled: 04/03/2025 12:09 **Matrix: WASTE WATER**

Dissolved Metals Analytical Method: EPA 200.8 Dissolved Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**8.4**	ug/L	1.0		1	0.98	04/09/25	04/09/25 22:51	1059

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Case Narrative

Project Name: Kop-Flex

PSS Project No.: 25040321

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Samples 002, 004, 006, 007, and 009 logged in for dissolved copper, per container labels.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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Lab Chronology

Project Name: Kop-Flex
PSS Project No.: 25040321

Method	PSS Sample ID	Container ID	Analysis Type	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 200.8	25040321-001	145	Initial	W	104264	220643	04/04/2025 12:55	04/08/2025 03:53
	25040321-003	147	Initial	W	104264	220643	04/04/2025 12:55	04/08/2025 03:58
	25040321-005	149	Initial	W	104264	220643	04/04/2025 12:55	04/08/2025 04:03
	25040321-008	152	Initial	W	104264	220643	04/04/2025 12:55	04/08/2025 04:09
	104264-1-BKS		BKS	W	104264	220643	04/04/2025 12:55	04/08/2025 03:10
	104264-1-BLK		BLK	W	104264	220643	04/04/2025 12:55	04/08/2025 03:05
	25040210-001 S	910	MS	W	104264	220643	04/04/2025 12:55	04/08/2025 03:32
	25040324-001 S	168	MS	W	104264	220643	04/04/2025 12:55	04/08/2025 08:12
	25040210-001 SD	910	MSD	W	104264	220643	04/04/2025 12:55	04/08/2025 03:37
EPA 200.8 Dissolved	25040321-002	146	Initial	W	104318	220708	04/09/2025 13:46	04/09/2025 22:19
	25040321-004	148	Initial	W	104318	220708	04/09/2025 13:46	04/09/2025 22:35
	25040321-006	150	Initial	W	104318	220708	04/09/2025 13:46	04/09/2025 22:40
	25040321-007	151	Initial	W	104318	220708	04/09/2025 13:46	04/09/2025 22:46
	25040321-009	153	Initial	W	104318	220708	04/09/2025 13:46	04/09/2025 22:51
	104318-1-BKS		BKS	W	104318	220708	04/09/2025 13:46	04/09/2025 22:13
	104318-1-BLK		BLK	W	104318	220708	04/09/2025 13:46	04/09/2025 21:52
	25040321-002 S	146	MS	W	104318	220708	04/09/2025 13:46	04/09/2025 22:24
	25040712-002 S	314	MS	W	104318	220708	04/09/2025 13:46	04/09/2025 23:46
	25040321-002 SD	146	MSD	W	104318	220708	04/09/2025 13:46	04/09/2025 22:30

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040321

Analytical Method: EPA 200.8
Prep Method: E200.8_PREP
Seq Number: 220643 Matrix: Water Date Prep: 04/04/25
MB Sample ID: 104264-1-BLK LCS Sample ID: 104264-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	51.39	103	85-115	ug/L	

Analytical Method: EPA 200.8 Dissolved
Prep Method: E200.8_PREP
Seq Number: 220708 Matrix: Water Date Prep: 04/09/25
MB Sample ID: 104318-1-BLK LCS Sample ID: 104318-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	51.28	103	85-115	ug/L	

Analytical Method: EPA 200.8 Dissolved
Prep Method: E200.8_PREP
Seq Number: 220708 Matrix: Waste Water Date Prep: 04/09/25
Parent Sample ID: 25040321-002 MS Sample ID: 25040321-002 S MSD Sample ID: 25040321-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Copper	5.247	50.00	56.35	102	57.37	104	70-130	2	25	ug/L	

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040321

Analytical Method: EPA 200.8
CCV Sample Id: CCV 4 Seq Number: 220643
Analyzed Date: 04/08/25 02:17

Parameter	CCV %Rec	Limits	Flag
Copper	103	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 5 Seq Number: 220643
Analyzed Date: 04/08/25 03:21

Parameter	CCV %Rec	Limits	Flag
Copper	106	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 6 Seq Number: 220643
Analyzed Date: 04/08/25 04:24

Parameter	CCV %Rec	Limits	Flag
Copper	108	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 9 Seq Number: 220643
Analyzed Date: 04/08/25 07:20

Parameter	CCV %Rec	Limits	Flag
Copper	104	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 10 Seq Number: 220643
Analyzed Date: 04/08/25 08:38

Parameter	CCV %Rec	Limits	Flag
Copper	106	85-115	

Analytical Method: EPA 200.8
Parent Sample Id: ICV 1 Seq Number: 220643
Analyzed Date: 04/07/25 21:37

Parameter	ICV %Rec	Limits	Flag
Copper	103	90-110	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 8 Seq Number: 220708
Analyzed Date: 04/09/25 20:52

Parameter	CCV %Rec	Limits	Flag
Copper	100	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 9 Seq Number: 220708
Analyzed Date: 04/09/25 22:02

Parameter	CCV %Rec	Limits	Flag
Copper	102	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 10 Seq Number: 220708
Analyzed Date: 04/09/25 23:13

Parameter	CCV %Rec	Limits	Flag
Copper	100	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 11 Seq Number: 220708
Analyzed Date: 04/10/25 00:18

Parameter	CCV %Rec	Limits	Flag
Copper	101	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 12 Seq Number: 220708
Analyzed Date: 04/10/25 08:17

Parameter	CCV %Rec	Limits	Flag
Copper	100	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 13 Seq Number: 220708
Analyzed Date: 04/10/25 08:51

Parameter	CCV %Rec	Limits	Flag
Copper	100	85-115	

Analytical Method: EPA 200.8 Dissolved
Parent Sample Id: ICV 1 Seq Number: 220708
Analyzed Date: 04/09/25 11:18

PHASE SEPARATION SCIENCE

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25040321

Analytical Method: EPA 200.8 Dissolved

Parent Sample Id: ICV 1 Seq Number: 220708
Analyzed Date: 04/09/25 11:18

Parameter	ICV %Rec	Limits	Flag
Copper	103	90-110	

CHAIN OF CUSTODY FORM

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All fields must be completed accurately. Shaded sections for lab use only.

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PSS CLIENT: WSP USA	OFFICE LOCATION: Herndon, VA
BILL TO (if different):	PHONE #: 703-709-6500
CONTACT: Eric Johnson	EMAIL: eric.johnson@wsp.com
PROJECT NAME: Kop-Flex	PROJECT #: 31405608.010/02.02
SITE LOCATION: Hanover, MD	P.O. #:
SAMPLER(S): Thea Torrisi	DW CERT #:

PSS Work Order #: 25040321

PAGE 1 OF 1

Matrix Codes: SW=Surface Water DW=Drinking Water GW=Ground Water WW=Waste Water O=Oil S=Soil SOL=Solid A=Air WI=Wipe

Preservative Codes: 1 - HCL, 2 - H_2SO_4, 3 - HNO_3, 4 - NaOH, 5 - E624KIT, 6 - ICE, 7 - Sodium Thiosulfate, 8 - Ascorbic Acid, 9 - TerraCore Kit

Preservatives Use Codes: 3,6

Analysis/Method Required: Cu (EPA 200.8)

PSS ID	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	Cu (EPA 200.8)
1	VSP-1-TOT	04/03/25	1145	WW	1	G	
2	VSP-1-FILT	04/03/25	1148	WW	1	G	
3	VSP-2-TOT	04/03/25	1150	WW	1	G	
4	VSP-2-FILT	04/03/25	1153	WW	1	G	
5	VSP-3-TOT	04/03/25	1155	WW	1	G	
6	VSP-3-FILT	04/03/25	1157	WW	1	G	
7	VSP-4-FILT	04/03/25	1202	WW	1	G	
8	SINK-TOT	04/03/25	1207	WW	1	G	
9	SINK-FILT	04/03/25	1209	WW	1	G	

Relinquished By	Date	Time	Received By
(1) [signature] /WSP	04/03/25	1437	[signature]
(2)			
(3)			
(4)			

Requested TAT (One TAT per COC): ☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☒ Other

STATE RESULTS REPORTED TO: ☐ MD ☐ DE ☐ PA ☐ VA ☐ WV ☐ OTHER

Ice Present: Pres

Custody Seal: Cooler/intact

Coolers: 1 Temp: 7.4-8.6°C

Shipping Carrier: Client

COMPLIANCE? ☐ DW ☐ WW

Special Instructions: * Standard 10-Day TAT

EDD FORMAT TYPE

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Sample Receipt Checklist

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800-932-9047
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Project Name: Kop-Flex
PSS Project No.: 25040321

Client Name	WSP USA - Herndon	**Received By**	Tyler Enwright
Disposal Date	05/08/2025	**Date Received**	04/03/2025 02:37 PM
		Delivered By	Client
		Tracking #	Not Applicable
		Logged In By	Tyler Enwright

Shipping Container(s)

# of Coolers	1		
		Ice	Present
Custody Seal(s) Intact?	Yes	Temp (°C)	8.6
Seal(s) Signed / Dated?	Yes	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Thea Torrisi
Chain of Custody	Yes	MD DW Cert. No.	N/A

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)?	Yes	Total # of Samples Received	9
		Total # of Containers Received	9

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	Yes
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, the sample ID, preservative added, documentation of any client notification, and subsequent client instructions are noted below. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C, and <=4°C for EPA 524. Samples that are received by the lab on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that thermal preservation has begun.

Samples 002, 004, 006, 007, and 009 logged in for dissolved copper, per container labels.

Samples Inspected/Checklist Completed By: Tyler Enwright Date: 04/03/2025

PM Review and Approval: Amber Confer Date: 04/04/2025

 Version 1.000

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25042939

May 13, 2025

Eric Johnson
WSP USA - Herndon
13530 Dulles Technology Dr, Ste 300
Herndon, VA 20171

Reference: PSS Project No: **25042939**
Project Name: Kop-Flex
Project Location: Hanover, MD
Project ID.: 31405608.010/0202

Dear Eric Johnson:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **25042939**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 3, 2025, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal
Laboratory Manager

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Sample Summary

Project Name: Kop-Flex

PSS Project No.: 25042939

The following samples were received under chain of custody by Phase Separation Science (PSS) on 04/29/2025 at 04:20 pm
Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
25042939-001	SINK-TOT	WASTE WATER	04/29/25 14:30
25042939-002	SINK-FILT	WASTE WATER	04/29/25 14:35

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Report Information

Project Name: Kop-Flex

PSS Project No.: 25042939

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Samples prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements

Standard Flags/Abbreviations:

B	A target analyte was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C	Results pending final confirmation.
Dil	Dilution Factor is the factor applied to the reported data due to dilution of the sample aliquot.
E	The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
F	RPD exceeded the laboratory control limits.
Fail	The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
H	Recovery of BKS, BSD or both exceeded the laboratory control limits.
J	The target analyte was positively identified below the reporting limit but greater than the MDL.
L	Recovery of BKS, BSD or both below the laboratory control limits.
MCL	The Maximum Contaminant Level is the highest level of a contaminant that is allowed in drinking water as determined by the EPA.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level.
ND	Not Detected at or above the reporting limit (or MDL if shown).
RL	PSS Reporting Limit.
X	Recovery outside of QC criteria.
%Rec	Percent Recovery

QC Types:

CCV	Continuing Calibration Verification	MD	Sample Duplicate
ICV	Initial Calibration Verification	MRL	Minimum Reporting Level
LCS / BKS	Laboratory Control Sample	MS	Matrix Spike
LCSD / BSD	Laboratory Control Sample Duplicate	MSD	Matrix Spike Duplicate
LLCCV	Low Level Continuing Calibration Verification	PDS	Post Digestion Spike
MB / BLK	Method Blank	RPD	Relative Percent Difference

Certifications:

Authority	Program	Identification Number
Maryland - MDE	State - Certification of Drinking Water Laboratories	179
MWAA	LDBE	LD1997-0041-2015
Pennsylvania - PADEP	NELAP	68-03330
USCG	NSWC	Accepted Laboratory
USDA	Regulated Soil Permit	P330-12-00268
Virginia - VELAP	NELAP	460156
West Virginia - WVDEP	State - Certified Laboratories	303

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25042939

Sample ID: SINK-TOT **PSS Sample ID: 25042939-001**
Date/Time Sampled: 04/29/2025 14:30 **Matrix: WASTE WATER**

Total Copper   Analytical Method: EPA 200.8   Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**49.1**	ug/L	1.00		1	0.98	04/30/25	05/01/25 14:09	1073

Sample ID: SINK-FILT **PSS Sample ID: 25042939-002**
Date/Time Sampled: 04/29/2025 14:35 **Matrix: WASTE WATER**

Dissolved Copper   Analytical Method: EPA 200.8 Dissolved   Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**33.8**	ug/L	1.00		1	0.98	05/08/25	05/08/25 22:52	1073

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Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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Lab Chronology

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Project Name: Kop-Flex
PSS Project No.: 25042939

Method	PSS Sample ID	Container ID	Analysis Type	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 200.8	25042939-001	758	Initial	W	104587	221273	04/30/2025 13:15	05/01/2025 14:09
	104587-1-BKS		BKS	W	104587	221273	04/30/2025 13:15	05/01/2025 12:08
	104587-1-BLK		BLK	W	104587	221273	04/30/2025 13:15	05/01/2025 12:04
	25042424-001 S	225	MS	W	104587	221273	04/30/2025 13:15	05/01/2025 13:13
	25042424-001 SD	225	MSD	W	104587	221273	04/30/2025 13:15	05/01/2025 13:17
EPA 200.8 Dissolved	25042939-002	760	Initial	W	104708	221496	05/08/2025 21:42	05/08/2025 22:52
	104708-1-BKS		BKS	W	104708	221496	05/08/2025 21:42	05/08/2025 22:47
	104708-1-BLK		BLK	W	104708	221496	05/08/2025 21:42	05/08/2025 22:41
	25042939-002 S	760	MS	W	104708	221496	05/08/2025 21:42	05/08/2025 22:57
	25042939-002 SD	760	MSD	W	104708	221496	05/08/2025 21:42	05/08/2025 23:03

Phase
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QC Summary

Project Name Kop-Flex
PSS Project No.: 25042939

Analytical Method: EPA 200.8 Prep Method: E200.8_PREP
Seq Number: 221273 Matrix: Water Date Prep: 04/30/25
MB Sample ID: 104587-1-BLK LCS Sample ID: 104587-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	53.81	108	85-115	ug/L	

Analytical Method: EPA 200.8 Dissolved Prep Method: E200.8_PREP
Seq Number: 221496 Matrix: Water Date Prep: 05/08/25
MB Sample ID: 104708-1-BLK LCS Sample ID: 104708-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	51.52	103	85-115	ug/L	

Analytical Method: EPA 200.8 Dissolved Prep Method: E200.8_PREP
Seq Number: 221496 Matrix: Waste Water Date Prep: 05/08/25
Parent Sample ID: 25042939-002 MS Sample ID: 25042939-002 S MSD Sample ID: 25042939-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	RPD	RPD Limit	Units	Flag
Copper	33.76	50.00	84.53	102	86.06	105	70-130	2	25	ug/L	

Phase Separation Science

QC Summary

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Project Name Kop-Flex
PSS Project No.: 25042939

Analytical Method: EPA 200.8
CCV Sample Id: CCV 1 Seq Number: 221273
Analyzed Date: 05/01/25 12:53

Parameter	CCV %Rec	Limits	Flag
Copper	102	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 2 Seq Number: 221273
Analyzed Date: 05/01/25 13:53

Parameter	CCV %Rec	Limits	Flag
Copper	104	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 3 Seq Number: 221273
Analyzed Date: 05/01/25 14:54

Parameter	CCV %Rec	Limits	Flag
Copper	102	85-115	

Analytical Method: EPA 200.8
Parent Sample Id: ICV 1 Seq Number: 221273
Analyzed Date: 05/01/25 11:48

Parameter	ICV %Rec	Limits	Flag
Copper	102	90-110	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 1 Seq Number: 221496
Analyzed Date: 05/08/25 20:09

Parameter	CCV %Rec	Limits	Flag
Copper	102	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 2 Seq Number: 221496
Analyzed Date: 05/08/25 21:19

Parameter	CCV %Rec	Limits	Flag
Copper	101	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 3 Seq Number: 221496
Analyzed Date: 05/08/25 22:30

Parameter	CCV %Rec	Limits	Flag
Copper	101	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 4 Seq Number: 221496
Analyzed Date: 05/08/25 23:41

Parameter	CCV %Rec	Limits	Flag
Copper	101	85-115	

Analytical Method: EPA 200.8 Dissolved
Parent Sample Id: ICV 1 Seq Number: 221496
Analyzed Date: 05/08/25 18:53

Parameter	ICV %Rec	Limits	Flag
Copper	102	90-110	

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CHAIN OF CUSTODY FORM

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①

PSS CLIENT: WSP USA	OFFICE LOCATION: Herndon, VA
BILL TO (if different):	PHONE #: 703-709-6500
CONTACT: Eric Johnson	EMAIL: eric.johnson@wsp.com
PROJECT NAME: Kop-Flex	PROJECT #: 31405608.010/0202
SITE LOCATION: Hanover, MD	P.O. #:
SAMPLER(S): Thea Torrisi	DW CERT #:

PSS Work Order #: 25042939

PAGE 1 OF 1

Matrix Codes:
SW=Surface Water **DW**=Drinking Water **GW**=Ground Water **WW**=Waste Water **O**=Oil **S**=Soil **SOL**=Solid **A**=Air **WI**=Wipe

Preservatives Use Codes: 3,6

Analysis/ Method Required ③: Cu (EPA 200.8)

Preservative Codes
1 - HCL
2 - H_2SO_4
3 - HNO_3
4 - NaOH
5 - E624KIT
6 - ICE
7 - Sodium Thiosulfate
8 - Ascorbic Acid
9 - TerraCore Kit

②

PSS ID	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	Cu (EPA 200.8)											
1	SINK-TOT	04/29/25	1430	WW	1	G	X											
2	SINK-FILT	04/29/25	1435	WW	1	G	X											

⑤

Relinquished By	Date	Time	Received By
Relinquished By: (1) [signature] / WSP	04/29/25	1620	Received By: [signature]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

④ Requested TAT (One TAT per COC)
- ☐ 5-Day ☐ 3-Day ☐ 2-Day
- ☐ Next Day ☐ Emergency ☒ Other

STATE RESULTS REPORTED TO:
☐ MD ☐ DE ☐ PA ☐ VA ☐ WV
☐ OTHER ________

COMPLIANCE?
☐ DW ☐ WW

EDD FORMAT TYPE

Ice Present: Pres

Custody Seal: Cooler/intact

Coolers: 1 Temp: 3.7-5.3°C

Shipping Carrier: Client

Special Instructions:
* Standard 10-day TAT
* All Samples preserved on ice
* "SINK-FILT" field-filtered

Temp Blank: 1.7°C

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Sample Receipt Checklist

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Project Name: Kop-Flex
PSS Project No.: 25042939

Client Name	WSP USA - Herndon	**Received By**	Tyler Enwright
Disposal Date	06/03/2025	**Date Received**	04/29/2025 04:20 PM
		Delivered By	Client
		Tracking #	Not Applicable
		Logged In By	Tyler Enwright

Shipping Container(s)

# of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	Yes	Temp (°C)	5.3
Seal(s) Signed / Dated?	Yes	Temp Blank Present	Yes

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Thea Torrisi
Chain of Custody	Yes	MD DW Cert. No.	N/A

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)?	Yes	Total # of Samples Received	2
		Total # of Containers Received	2

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	Yes
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, the sample ID, preservative added, documentation of any client notification, and subsequent client instructions are noted below. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C, and <=4°C for EPA 524. Samples that are received by the lab on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that thermal preservation has begun.

Samples Inspected/Checklist Completed By: Tyler Enwright Date: 04/29/2025
Tyler Enwright

PM Review and Approval: Amber J Confer Date: 04/30/2025
Amber Confer

ENCLOSURE B – LABORATORY REPORT FOR JUNE 2025 COPPER SAMPLING

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25061919

July 3, 2025

Eric Johnson
WSP USA - Herndon
13530 Dulles Technology Dr, Ste 300
Herndon, VA 20171

Reference: PSS Project No: **25061919**
Project Name: Kop-Flex
Project Location: Hanover, MD
Project ID.: 31405608.010/02.02

Dear Eric Johnson:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **25061919**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 24, 2025, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Cathy Thompson
QA Officer

Phase Separation Science

6630 Baltimore National Pike
Baltimore, MD 21228
410-747-8770
800-932-9047
www.phaseonline.com

Sample Summary

Project Name: Kop-Flex

PSS Project No.: 25061919

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/19/2025 at 02:34 pm
Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
25061919-001	Boiler - TOT	WASTE WATER	06/19/25 13:30
25061919-002	Boiler - FILT	WASTE WATER	06/19/25 13:35

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Report Information

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Project Name: Kop-Flex

PSS Project No.: 25061919

Notes:

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
5. Samples prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements

Standard Flags/Abbreviations:

B	A target analyte was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C	Results pending final confirmation.
Dil	Dilution Factor is the factor applied to the reported data due to dilution of the sample aliquot.
E	The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
F	RPD exceeded the laboratory control limits.
Fail	The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
H	Recovery of BKS, BSD or both exceeded the laboratory control limits.
J	The target analyte was positively identified below the reporting limit but greater than the MDL.
L	Recovery of BKS, BSD or both below the laboratory control limits.
MCL	The Maximum Contaminant Level is the highest level of a contaminant that is allowed in drinking water as determined by the EPA.
MDL	This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is the minimum result, which can be reliably discriminated from a blank with a predetermined confidence level.
ND	Not Detected at or above the reporting limit (or MDL if shown).
RL	PSS Reporting Limit.
X	Recovery outside of QC criteria.
%Rec	Percent Recovery

QC Types:

CCV	Continuing Calibration Verification	MD	Sample Duplicate
ICV	Initial Calibration Verification	MRL	Minimum Reporting Level
LCS / BKS	Laboratory Control Sample	MS	Matrix Spike
LCSD / BSD	Laboratory Control Sample Duplicate	MSD	Matrix Spike Duplicate
LLCCV	Low Level Continuing Calibration Verification	PDS	Post Digestion Spike
MB / BLK	Method Blank	RPD	Relative Percent Difference

Certifications:

Authority	Program	Identification Number
Maryland - MDE	State - Certification of Drinking Water Laboratories	179
MWAA	LDBE	LD1997-0041-2015
Pennsylvania - PADEP	NELAP	68-03330
USCG	NSWC	Accepted Laboratory
USDA	Regulated Soil Permit	P330-12-00268
Virginia - VELAP	NELAP	460156
West Virginia - WVDEP	State - Certified Laboratories	303

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Certificate of Analysis

Project Name: Kop-Flex
PSS Project No.: 25061919

Sample ID: Boiler - TOT **PSS Sample ID: 25061919-001**
Date/Time Sampled: 06/19/2025 13:30 **Matrix: WASTE WATER**

Total Metals | Analytical Method: EPA 200.8 | Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**44.7**	ug/L	1.00		1	0.98	06/20/25	06/23/25 23:12	1073

Sample ID: Boiler - FILT **PSS Sample ID: 25061919-002**
Date/Time Sampled: 06/19/2025 13:35 **Matrix: WASTE WATER**

Dissolved Metals | Analytical Method: EPA 200.8 Dissolved | Preparation Method: E200.8

	Result	Units	RL	Flag	Dil	MDL	Prepared	Analyzed	Analyst
Copper	**13.5**	ug/L	1.00		1	0.98	06/24/25	06/24/25 21:36	1059

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Project Name: Kop-Flex

PSS Project No.: 25061919

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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Lab Chronology

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Project Name: Kop-Flex
PSS Project No.: 25061919

Method	PSS Sample ID	Container ID	Analysis Type	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA 200.8	25061919-001	845	Initial	W	105224	222560	06/20/2025 13:10	06/23/2025 23:12
	105224-1-BKS		BKS	W	105224	222560	06/20/2025 13:10	06/23/2025 22:07
	105224-1-BLK		BLK	W	105224	222560	06/20/2025 13:10	06/23/2025 22:01
	25061814-001 S	752	MS	W	105224	222560	06/20/2025 13:10	06/23/2025 22:18
	25061814-001 SD	752	MSD	W	105224	222560	06/20/2025 13:10	06/23/2025 22:23
EPA 200.8 Dissolved	25061919-002	846	Initial	W	105254	222586	06/24/2025 17:40	06/24/2025 21:36
	105254-1-BKS		BKS	W	105254	222586	06/24/2025 17:40	06/24/2025 20:36
	105254-1-BLK		BLK	W	105254	222586	06/24/2025 17:40	06/24/2025 20:31
	25061906-001 S	774	MS	W	105254	222586	06/24/2025 17:40	06/24/2025 20:47
	25061906-001 SD	774	MSD	W	105254	222586	06/24/2025 17:40	06/24/2025 20:53

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QC Summary

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Project Name Kop-Flex
PSS Project No.: 25061919

Analytical Method: EPA 200.8 Prep Method: E200.8_PREP
Seq Number: 222560 Matrix: Water Date Prep: 06/20/25
MB Sample ID: 105224-1-BLK LCS Sample ID: 105224-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	49.64	99	85-115	ug/L	

Analytical Method: EPA 200.8 Dissolved Prep Method: E200.8_PREP
Seq Number: 222586 Matrix: Water Date Prep: 06/24/25
MB Sample ID: 105254-1-BLK LCS Sample ID: 105254-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Flag
Copper	<0.9800	50.00	50.74	101	85-115	ug/L	

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QC Summary

Project Name Kop-Flex
PSS Project No.: 25061919

Analytical Method: EPA 200.8
CCV Sample Id: CCV 6 Seq Number: 222560
Analyzed Date: 06/23/25 21:45

Parameter	CCV %Rec	Limits	Flag
Copper	103	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 7 Seq Number: 222560
Analyzed Date: 06/23/25 22:56

Parameter	CCV %Rec	Limits	Flag
Copper	107	85-115	

Analytical Method: EPA 200.8
CCV Sample Id: CCV 8 Seq Number: 222560
Analyzed Date: 06/24/25 00:07

Parameter	CCV %Rec	Limits	Flag
Copper	103	85-115	

Analytical Method: EPA 200.8
Parent Sample Id: ICV 1 Seq Number: 222560
Analyzed Date: 06/23/25 14:35

Parameter	ICV %Rec	Limits	Flag
Copper	110	90-110	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 1 Seq Number: 222586
Analyzed Date: 06/24/25 19:53

Parameter	CCV %Rec	Limits	Flag
Copper	95	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 2 Seq Number: 222586
Analyzed Date: 06/24/25 21:03

Parameter	CCV %Rec	Limits	Flag
Copper	97	85-115	

Analytical Method: EPA 200.8 Dissolved
CCV Sample Id: CCV 3 Seq Number: 222586
Analyzed Date: 06/24/25 22:10

Parameter	CCV %Rec	Limits	Flag
Copper	97	85-115	

Analytical Method: EPA 200.8 Dissolved
Parent Sample Id: ICV 1 Seq Number: 222586
Analyzed Date: 06/24/25 18:37

Parameter	ICV %Rec	Limits	Flag
Copper	100	90-110	

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CHAIN OF CUSTODY FORM

All fields must be completed accurately. Shaded sections for lab use only.

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① PSS CLIENT: WSP USA   OFFICE LOCATION: Herndon, VA

PSS Work Order #: 25061919   PAGE 1 OF 1

BILL TO (if different):   PHONE #: 703-709-6500

CONTACT: Eric Johnson   EMAIL: eric.johnson@wsp.com

PROJECT NAME: Kop-Flex   PROJECT #: 31405608.010/02.02

SITE LOCATION: Hanover, MD   P.O. #:

SAMPLER(S): Thea Torrisi   DW CERT #:

Matrix Codes: **SW**=Surface Water **DW**=Drinking Water **GW**=Ground Water **WW**=Waste Water **O**=Oil **S**=Soil **SOL**=Solid **A**=Air **WI**=Wipe

Preservative Codes: 1 - HCL; 2 - H_2SO_4; 3 - HNO_3; 4 - NaOH; 5 - E624KIT; 6 - ICE; 7 - Sodium Thiosulfate; 8 - Ascorbic Acid; 9 - TerraCore Kit

Preservatives Use Codes: 3,6 | 3,6

Analysis/Method Required ③: Tot. Cu (200.8) | Diss. Cu (200.8) (Field-Filtered)

②

PSS ID	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX Use Codes	# OF CONTAINERS	SAMPLE TYPE: C=COMPOSITE G=GRAB	Tot. Cu (200.8)	Diss. Cu (200.8) (Field-Filtered)
1	Boiler - TOT	06/19/25	1330	WW	1	G	X	
2	Boiler - FILT	06/19/25	1335	WW	1	G		X

⑤

Relinquished By:	Date	Time	Received By:
(1) [signature] /WSP	06/19/25	1434	[signature]
(2)			
(3)			
(4)			

④ **Requested TAT (One TAT per COC)**
❑ 5-Day ❑ 3-Day ❑ 2-Day
❑ Next Day ❑ Emergency ☒ Other

STATE RESULTS REPORTED TO:
❑ MD ❑ DE ❑ PA ❑ VA ❑ WV
❑ OTHER

COMPLIANCE? ❑ DW ❑ WW

EDD FORMAT TYPE

Ice Present: Pres

Custody Seal: AHS

Coolers: 1   Temp: 8.2-9.5°C

Shipping Carrier: Client

Special Instructions:
* Standard 10-day TAT
* Boiler-FILT field-filtered
* All samples preserved on ice

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Sample Receipt Checklist

Project Name: Kop-Flex
PSS Project No.: 25061919

Client Name	WSP USA - Herndon	**Received By**	Tyler Enwright
Disposal Date	07/24/2025	**Date Received**	06/19/2025 02:34 PM
		Delivered By	Client
		Tracking #	Not Applicable
		Logged In By	Tyler Enwright

Shipping Container(s)

# of Coolers 1

		Ice	Present
Custody Seal(s) Intact?	N/A	Temp (°C)	9.5
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No

Documentation

COC agrees with sample labels?	Yes	Sampler Name	Thea Torrisi
Chain of Custody	Yes	MD DW Cert. No.	N/A

Sample Container

Appropriate for Specified Analysis?	Yes	Custody Seal(s) Intact?	Not Applicable
Intact?	Yes	Seal(s) Signed / Dated	Not Applicable
Labeled and Labels Legible?	Yes		

Holding Time

All Samples Received Within Holding Time(s)?	Yes	Total # of Samples Received	2
		Total # of Containers Received	2

Preservation

Total Metals	(pH<2)	Yes
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	Yes
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(pH<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	N/A
Do VOA vials have zero headspace?		N/A
624 VOC (Rcvd at least one unpreserved VOA vial)		N/A
524 VOC (Rcvd with trip blanks)	(pH<2)	N/A

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, the sample ID, preservative added, documentation of any client notification, and subsequent client instructions are noted below. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C, and <=4°C for EPA 524. Samples that are received by the lab on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that thermal preservation has begun.

Samples Inspected/Checklist Completed By: Tyler Enwright Date: 06/19/2025

PM Review and Approval: Lynn Jackson Date: 06/19/2025

ENCLOSURE C – HISTORICAL MONITORING WELL SAMPLE RESULTS

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-01	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-03	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-04	12/7/2016	10.0 U	**259**	10.0 U	**1,020**	10.0 U	**576**	20.0 U	4.0 U	31.7	10.0 U	10.0 U	10.0 U
	5/2/2017	4.0 U	**103**	4.0 U	**459**	4.0 U	**252**	8.0 U	4.0 U	13.0	4.0 U	4.0 U	4.0 U
	11/15/2017	5.0 U	**29.2**	1.0 J	**151**	1.0 U	**121**	**10.5**	0.687 J	4.3	1.0 U	1.4	1.0 U
	5/30/2018	1.0 U	**33.3**	1.0 U	**153**	1.0 U	**92.7**	2.0 U	1.0 U	4.0	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**23.3**	1.0 U	**89.9**	1.0 U	1.0 U	2.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	**57.7**	1.1	**142**	1.0 U	**111**	5.0 U	1.0 U	1.7	1.0 U	1.1	1.0 U
	11/19/2019	1.0 U	**45.1**	1.1	**126**	1.0 U	**94.2**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	**58.6**	1.3	**149**	1.0 U	**84.6**	5.0 U	1.0 U	1.4	1.2	1.2	1.0 U
	11/22/2020	1.0 U	**62.0**	1.6	**141**	1.0 U	**151**	5.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U
	5/9/2021	2.5 U	**130**	2.9	**361**	2.5 U	**303**	12.5 U	2.5 U	3.4	2.5 U	2.5 U	2.5 U
	11/14/2021	1.0 U	**82.7**	1.2	**175**	1.0 U	**134**	5.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U
	6/26/2022	1.0 U	**173**	3.1	**339**	1.0 U	**86.8**	5.0 U	1.0 U	1.8	1.0 U	3.0	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-04R	11/20/2022	1.0 U	**37.4**	1.1	**76.0**	1.0 U	**57.3**	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	**33.2**	1.0 U	**65.5**	1.0 U	**30.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	5.0 U	**31.3**	5.0 U	**65.8**	5.0 U	**35.9**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	5/19/2024	1.0 U	**36.0**	1.1	**76.0**	1.0 U	**26.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	**32.6**	1.0 U	**61.6**	1.0 U	**36.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	**34.0**	1.0 U	**67.7**	1.0 U	**34.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-5R	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**16.5**	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.4	1.0 U	1.4	1.0 U	**16.5**	2.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.6	1.0 U	2.5	1.0 U	11.0	**10.2**	1.0 U	1.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.8	1.0 U	2.7	1.0 U	11.5	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.3	1.0 U	2.0 U	2.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.6	5.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.8	1.0 U	1.7	1.0 U	13.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.6	1.0 U	1.4	1.0 U	12.0	5.0 U	1.0 U	2.4	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.2	1.0 U	1.0 U	1.0 U	3.3	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-09	12/8/2016	1.0 U	**4.5**	1.0 U	**104**	1.0 U	**95.5**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	**2.9**	1.0 U	**63.8**	1.0 U	**20.8**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	**3.1**	0.4 J	**60.2**	1.0 U	**32.4**	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	2.2	1.0 U	**49.2**	1.0 U	**23.4**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**4.5**	1.0 U	**75.9**	1.0 U	**37.4**	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	**3.6**	1.0 U	**70.8**	1.0 U	**32.8**	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	2.6	1.0 U	**48.7**	1.0 U	**24.4**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	2.6	1.0 U	**50.5**	1.0 U	**18.7**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	2.5	1.0 U	**56.4**	1.0 U	**25.7**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	**3.0**	1.0 U	**56.3**	1.0 U	**23.6**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	2.5	1.0 U	**53.3**	1.0 U	**22.6**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	**3.0**	1.0 U	**57.7**	1.0 U	4.5	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.9	1.0 U	**35.7**	1.0 U	7.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.9	1.0 U	**36.0**	1.0 U	4.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	2.6	1.0 U	**53.4**	1.0 U	6.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	**2.9**	1.0 U	**60.7**	1.0 U	3.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	1.1	1.0 U	**18.0**	1.0 U	2.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	2.1	1.0 U	**42.9**	1.0 U	7.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-16	12/8/2016	200 U	**6,420**	200 U	**26,200**	200 U	**1,450**	400 U	100 U	**4,390**	200 U	200 U	200 U
	5/2/2017	225	**7,910**	100 U	**10,500**	100 U	**971**	200 U	100 U	**8,930**	100 U	100 U	100 U
	11/15/2017	732	**7,110**	**22**	**7,740**	46	**836**	**11**	**18.4**	**5,590**	1.0 U	**69**	**19**
	5/30/2018	249	**6,250**	50 U	**4,690**	50 U	**636**	100 U	50 U	**7,360**	50.0 U	50 U	50 U
	11/7/2018	275	**7,360**	50 U	**7,800**	50 U	**866**	100 U	50 U	**6,420**	50.0 U	**74.2**	50 U
	5/22/2019	10 U	**343**	10 U	**1,160**	10 U	**1,230**	50 U	10 U	**216**	10.0 U	**13.7**	10.0 U
	11/19/2019	23.4	**608**	10 U	**1,440**	10 U	**81.9**	50 U	10 U	**314**	10.0 U	**18.3**	10.0 U
	5/13/2020	10.9	**394**	5.0 U	**571**	5.0 U	**39.2**	5.0 U	5.0 U	**487**	5.0 U	**10.7**	5.0 U
	11/22/2020	20.0 U	**1,560**	20 U	**1,130**	20 U	**84.2**	100 U	20 U	**2,060**	5.0 U	20.0 U	20.0 U
	5/9/2021	4.2	**169**	2.0 U	**276**	2.1	**19.3**	10 U	2.2	123	2.0 U	**6.2**	2.0 U
	11/14/2021	12.5 U	**1,350**	12.5 U	**1,630**	12.5 U	**76.0**	62.5 U	12.5 U	**1,720**	12.5 U	12.5 U	12.5 U
	6/26/2022	42.6	**1,030**	1.0 U	**1,210**	1.0 U	**26.4**	1.4	**5.5**	**1,610**	1.0 U	**13.8**	**2.3**
	11/20/2022	136.0	**3,290**	1.0 U	**4,290**	1.0 U	**143.0**	2.2	**9.4**	**2,960**	1.0 U	**28.0**	**13.2**
	5/21/2023	96.1	**2,230**	1.0 U	**2,510**	1.0 U	**89.5**	3.7	**6.3**	**2,230**	1.0 U	**19.1**	**6.7**
	12/3/2023	124.0	**3,040**	20.0 U	**3,990**	20.0 U	**96.3**	20.0 U	20.0 U	**2,200**	20.0 U	**20.5**	20 U
	5/19/2024	34.5	**1,160**	20.0 U	**1,640**	20.0 U	**91.4**	20.0 U	20.0 U	**905**	20.0 U	20.0 U	20 U
	11/11/2024	35.4	**1,030**	20.0 U	**1,490**	20.0 U	**88.1**	20.0 U	20.0 U	**767**	20.0 U	20.0 U	20 U
	6/15/2025	20.0 U	**1,080**	20.0 U	**1,470**	20.0 U	**92.6**	20.0 U	20.0 U	**786**	20.0 U	20.0 U	20.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-18	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**24.9**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-20	12/9/2016	2.0 U	**99.7**	**5.1**	**173**	2.0 U	**767**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/2/2017	2.0 U	**161**	**7.3**	**286**	2.0 U	**967**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	**136**	**5.7**	**223**	1.4	**969**	5.0 U	1.0 U	1.0 U	1.9	1.0 U	1.0 U
	5/30/2018	2.0 U	**115**	**5.5**	**205**	2.0 U	**966**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/7/2018	2.5 U	**145**	**6.3**	**233**	2.5 U	**986**	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	5/21/2019	2.0 U	**157**	**6.5**	**226**	2.0 U	**1,620**	10.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/19/2019	2.0 U	**175**	**7.5**	**244**	2.0 U	**1,220**	10.0 U	2.0 U	2.0 U	2.1	2.0 U	2.0 U
	5/13/2020	2.0 U	**188**	**7.7**	**232**	2.0 U	**1,000**	10.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/22/2020	2.0 U	**205**	**7.5**	**272**	2.0 U	**1,260**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/9/2021	2.0 U	**214**	**7.5**	**267**	2.2	**1,010**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/14/2021	2.0 U	**256**	**8.7**	**321**	2.0 U	**1,210**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	6/26/2022	1.0 U	**294**	**10.8**	**426**	2.9	**377**	5.0 U	1.0 U	1.0 U	2.7	2.7	1.0 U
	11/20/2022	1.0 U	**258**	**9.7**	**348**	2.6	**560**	1.0 U	1.0 U	1.0 U	2.4	2.7	1.0 U
	5/21/2023	1.0 U	**252**	**8.9**	**307**	1.0 U	**407**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	5.0 U	**432**	**13.1**	**631**	5.0 U	**404**	5.0 U	5.0 U	5.0 U	5.0 U	**5.9**	1.0 U
	5/19/2024	5.0 U	**386**	**12.6**	**560**	5.0 U	**396**	5.0 U	5.0 U	5.0 U	5.0 U	**5.1**	1.0 U
	11/11/2024	5.0 U	**389**	**13.2**	**528**	5.0 U	**616**	5.0 U	5.0 U	5.0 U	5.0 U	**5.0** U	5.0 U
	6/15/2025	5.0 U	**407**	**12.9**	**601**	5.0 U	**749**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-38R	12/9/2016	1.0 U	**3.8**	1.0 U	1.0 U	1.0 U	**18.3**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	**6.0**	1.0 U	1.0 U	1.0 U	**42.6**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	**8.3**	1.0 U	1.0 U	1.0 U	**62.5**	**8.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	**4.3**	1.0 U	1.0 U	1.0 U	**40.7**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**6.9**	1.0 U	1.0 U	1.0 U	**39.4**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	**4.7**	1.0 U	1.0 U	1.0 U	**43.2**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	**7.7**	1.0 U	1.0 U	1.0 U	**51.5**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	**6.2**	1.0 U	1.0 U	1.0 U	**40.8**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	**6.5**	1.0 U	1.0 U	1.0 U	**40.9**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	**5.5**	1.0 U	1.0 U	1.0 U	**47.0**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2021	1.0 U	**6.7**	1.0 U	1.0 U	1.0 U	**46.2**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	**7.6**	1.0 U	1.0 U	1.0 U	14.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	**7.1**	1.0 U	1.0 U	1.0 U	**20.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	**6.8**	1.0 U	1.0 U	1.0 U	11.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	**4.2**	1.0 U	1.0 U	1.0 U	**18.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	**3.9**	1.0 U	1.0 U	1.0 U	**19.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	**9.2**	1.0 U	1.0 U	1.0 U	**19.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-39	12/7/2016	1.0 U	1.0 U	1.0 U	1.7	1.0 U	2.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.1	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	0.6 J	1.0 U	2.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/12/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-42	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**19.3**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	1/6/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13.3	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12.5	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	7/15/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-43	12/7/2016	2.0 U	**15.9**	2.1	**171**	2.0 U	**237**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	**21.3**	2.1	**177**	2.0 U	**206**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	**15.9**	1.3	**159**	1.0 U	**165**	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	5/30/2018	2.0 U	**5.9**	1.0 U	**68**	1.0 U	**57.6**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**13.8**	1.2	**118**	1.0 U	**107**	2.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U
	5/21/2019	1.0 U	**5.2**	1.0 U	**53.9**	1.0 U	**52.0**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	**4.3**	1.0 U	**48.5**	1.0 U	**55.2**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	1.0 U	**3.8**	1.0 U	**46.3**	1.0 U	**49.0**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	**2.9**	1.0 U	**31.8**	1.0 U	**42.7**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	2.7	1.0 U	**31.7**	1.0 U	**34.1**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	2.6	1.0 U	**31.3**	1.0 U	**34.3**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	2.5	1.0 U	**29.4**	1.0 U	7.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.7	1.0 U	**20.3**	1.0 U	9.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.6	1.0 U	**21.2**	1.0 U	9.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.6	1.0 U	**19.9**	1.0 U	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	1.5	1.0 U	**17.3**	1.0 U	6.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.3	1.0 U	**15.2**	1.0 U	9.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.3	1.0 U	**14.1**	1.0 U	9.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-44	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	**6.6**	1.0 U	5.9	1.0 U	**49.1**	2.0 U	1.0 U	27.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.4	1.0 U	1.4	1.0 U	8.4	2.0 U	1.0 U	4.9	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	**14.9**	1.0 U	**22.4**	1.0 U	**64.4**	5.0 U	1.0 U	74.3	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	**3.0**	1.0 U	4.1	1.0 U	**17.7**	5.0 U	1.0 U	11.9	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.7	1.0 U	2.9	1.0 U	10.2	5.0 U	1.0 U	6.9	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	**3.8**	1.0 U	**7.2**	1.0 U	13.3	5.0 U	1.0 U	15.4	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	2.3	1.0 U	3.2	1.0 U	2.5	5.0 U	1.0 U	5.9	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	2.4	1.0 U	3.9	1.0 U	4.2	1.0 U	1.0 U	8.0	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.2	1.0 U	1.9	1.0 U	1.9	1.0 U	1.0 U	2.6	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.6	1.0 U	**6.8**	1.0 U	2.6	1.0 U	1.0 U	9.4	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	**3.3**	1.0 U	5.0	1.0 U	1.9	1.0 U	1.0 U	5.8	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	**1.6**	1.0 U	2.0	1.0 U	2.8	1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.5	1.0 U	1.6	1.0 U	1.7	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
MW-1D	1/2/2017	2.0 U	**72**	4.7	**375**	2.0 U	**236**	4.0 U	2.5 U	37.5	2.0 U	2.0 U	2.0 U
	5/3/2017	2.5 U	**105**	**5.7**	**407**	2.5 U	**329**	5.0 U	2.5 U	37.1	2.5 U	2.5 U	2.5 U
	11/15/2017	5.0 U	**80**	3.8	**277**	0.6 J	**243**	5.0 U	0.519 J	29.8	0.8 J	1.7	1 U
	5/30/2018	1.0 U	**14.9**	1.0 U	**71.4**	1.0 U	**64.4**	2.0 U	1.0 U	5.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**7.1**	1.0 U	**38.8**	1.0 U	2.0 U	2.0 U	1.0 U	3.3	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	2.1	1.0 U	**13.7**	1.0 U	12.8	5.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	**3.4**	1.0 U	**17.7**	1.0 U	**17.9**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	2.6	1.0 U	**16.5**	1.0 U	12.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-1D	11/22/2020	1.0 U	**3.1**	1.0 U	**17.6**	1.0 U	**16.9**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
(continued)	5/9/2021	1.0 U	1.8	1.0 U	**12.2**	1.0 U	9.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	**3.8**	1.0 U	**22.4**	1.0 U	**16.5**	5.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	**3.1**	1.0 U	**19.1**	1.0 U	4.0	5.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	**3.0**	1.0 U	**16.8**	1.0 U	6.8	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	**1.8**	1.0 U	**11.1**	1.0 U	4.0	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	**3.8**	1.0 U	**21.3**	1.0 U	6.5	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	2.4	1.0 U	**17.1**	1.0 U	3.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	**2.9**	1.0 U	**15.6**	1.0 U	6.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/16/2025	1.0 U	**3.6**	1.0 U	**17.8**	1.0 U	5.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-16D	12/8/2016	2.0 U	**56.6**	2.9	**254**	2.0 U	**202**	4.0 U	2.0 U	21	2.0 U	2.0 U	2.0 U
	5/2/2017	2.0 U	**43.7**	2.9	**235**	2.0 U	**182**	4.0 U	2.0 U	16.4	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	**29.7**	1.9	**179**	0.3 J	**192**	**10.0**	1.0 U	15.1	0.5 J	0.9 J	1.0 U
	5/30/2018	1.0 U	**26.4**	1.6	**180**	1.0 U	**153**	2.0 U	1.0 U	10.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**27.5**	1.8	**161**	1.0 U	**158**	2.0 U	1.0 U	12.5	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	**28.5**	2.1	**172**	1.0 U	**148**	5.0 U	1.0 U	14.5	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	**25.6**	1.7	**133**	1.0 U	**140**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	**29.1**	1.9	**145**	1.0 U	**130**	5.0 U	1.0 U	11.7	1.0 U	1.0 U	1.0 U
	12/8/2020	1.0 U	**25.9**	1.6	**127**	1.0 U	**105**	5.0 U	1.0 U	10.1	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	**27.7**	1.7	**130**	1.0 U	**107**	5.0 U	1.0 U	9.5	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	**21.5**	1.1	**98.7**	1.0 U	**84.5**	5.0 U	1.0 U	6.9	1.0 U	1.0 U	1.0 U
	7/15/2022	1.0 U	**27.4**	1.7	**136.0**	1.0 U	**39.2**	1.0 U	1.0 U	8.3	1.0 U	1.0 U	1.0 U
	12/29/2022	1.0 U	**16.4**	1.0 U	**80.1**	1.0 U	**29.9**	5.0 U	1.0 U	4.7	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	**24.8**	1.4	**111.0**	1.0 U	**36.1**	1.0 U	1.0 U	6.5	1.0 U	1.0 U	1.0 U
Duplicate	5/21/2023	1.0 U	**24.9**	1.4	**110.0**	1.0 U	**21.3**	1.0 U	1.0 U	6.7	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	**21.8**	1.4	**103.0**	1.0 U	**34.5**	1.0 U	1.0 U	5.2	1.0 U	1.0 U	1.0 U
Duplicate	12/3/2023	1.0 U	**19.7**	1.0 U	**98.3**	1.0 U	**27.0**	1.0 U	1.0 U	4.7	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	**20.5**	1.1	**96.6**	1.0 U	**18.7**	1.0 U	1.0 U	4.5	1.0 U	1.0 U	1.0 U
Duplicate	5/19/2024	1.0 U	**20.7**	1.1	**96.6**	1.0 U	**19.1**	1.0 U	1.0 U	4.4	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	**16.8**	1.0 U	**68.2**	1.0 U	**21.6**	1.0 U	1.0 U	3.5	1.0 U	1.0 U	1.0 U
Duplicate	11/10/2024	1.0 U	**15.0**	1.0 U	**58.8**	1.0 U	**24.8**	1.0 U	1.0 U	3.2	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	**17.7**	1.0 U	**74.4**	1.0 U	**22.4**	1.0 U	1.0 U	3.4	1.0 U	1.0 U	1.0 U
Duplicate	6/15/2025	1.0 U	**17.6**	1.0 U	**70.2**	1.0 U	**28.1**	1.0 U	1.0 U	3.5	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-21D	12/16/2016	1.0 U	2.6	1.0 U	**23.4**	1.0 U	**18.6**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	**6.9**	1.4	**111**	1.0 U	**57.5**	2.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	2.0	1.0 U	**14.4**	1.0 U	**18.5**	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0	1.0 U	**38.8**	1.0 U	**32.2**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	**30.0**	1.0 U	**18.0**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	**9.9**	1.0 U	8.4	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	4.1	1.0 U	4.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	**13.6**	1.0 U	7.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	**7.8**	1.0 U	5.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	4.1	1.0 U	2.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	**18.7**	1.0 U	12.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	**24.5**	1.0 U	4.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	**17.6**	1.0 U	5.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	**26.1**	1.0 U	7.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	**30.8**	1.0 U	7.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	1.0 U	1.0 U	6.3	1.0 U	4.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	**19.8**	1.0 U	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.0 U	1.0 U	**16.4**	1.0 U	6.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-22D	12/7/2016	1.0 U	2.5	1.0 U	**31.5**	1.0 U	**24.5**	2.0 U	1.0 U	4.1	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	2.5	1.0 U	**36.9**	1.0 U	**24.6**	2.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.72	1.0 U	**24.4**	1.0 U	**19.6**	5.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	**13.1**	1.0 U	7.9	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	**9.7**	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	6.3	1.0 U	5.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	5.6	1.0 U	4.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	6.2	1.0 U	4.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	**7.1**	1.0 U	4.9	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	5.9	1.0 U	4.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	6.2	1.0 U	5.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	**9.0**	1.0 U	1.6	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	6.1	1.0 U	2.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	**8.4**	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	**8.5**	1.0 U	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	1.0 U	1.0 U	5.5	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	1.0 U	1.0 U	**10.8**	1.0 U	3.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	1.0 U	1.0 U	**8.3**	1.0 U	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-23D	1/2/2017	2.0 U	**26.4**	2.0 U	**140**	2.0 U	**151**	**8.3**	1.0 U	17.0	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	**39.1**	2.4	**208**	2.0 U	**177**	4.0 U	2.0 U	19.9	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	**31.1**	1.9	**179**	0.3 J	**158**	5.0 U	0.417 J	19.3	0.4 J	0.9 J	1.0 U
	5/30/2018	1.0 U	**30.5**	1.6	**172**	1.0 U	**148**	2.0 U	1.0 U	14.8	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	**36.2**	1.9	**185**	1.0 U	**146**	2.0 U	1.0 U	17.0	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	**18.5**	1.2	**96.4**	1.0 U	**70.7**	5.0 U	1.0 U	8.6	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	**22.7**	1.4	**107**	1.0 U	**109**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	**35.2**	1.8	**142**	1.0 U	**112**	5.0 U	1.0 U	13.6	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	**26.3**	1.2	**106**	1.0 U	**96.7**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	**31.8**	1.5	**126**	1.0 U	**99.0**	5.0 U	1.0 U	11.7	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	**28.5**	1.1	**110**	1.0 U	**92.4**	5.0 U	1.0 U	9.2	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	**34.6**	1.5	**138**	1.0 U	**27.0**	5.0 U	1.0 U	10.7	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	**33.6**	1.7	**140**	1.0 U	**59.6**	1.0 U	1.0 U	9.7	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	**32.4**	1.4	**116**	1.0 U	**27.0**	1.0 U	1.0 U	8.3	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-23D	12/3/2023	1.0 U	**41.2**	1.4	**177**	1.0 U	**56.1**	1.0 U	1.0 U	9.3	1.0 U	1.0 U	1.0 U
	5/19/2024	1.0 U	**32.7**	1.4	**134**	1.0 U	**24.2**	1.0 U	1.0 U	6.9	1.0 U	1.0 U	1.0 U
	11/11/2024	1.0 U	**20.1**	1.0 U	**78**	1.0 U	**34.1**	1.0 U	1.0 U	4.6	1.0 U	1.0 U	1.0 U
	6/15/2025	1.0 U	**34.6**	1.3	**139.0**	1.0 U	**32.4**	1.0 U	1.0 U	5.9	1.0 U	1.0 U	1.0 U
MW-27D	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/13/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-40D	12/9/2016	1.0 U	**2.9**	1.0 U	**18.1**	1.0 U	9.4	2.0 U		1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	**3.1**	1.0 U	**17.4**	1.0 U	8.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	0.9 J	1.0 U	5.2	1.0 U	5.2	**9.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	2.9	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	4.4	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/22/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.18	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table C-1

Historical Monitoring Well Sampling Results
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 - June 2025) (a)

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
Groundwater Cleanup Standards (b)		2,100	2.8	5	7	70	15 (c)	5	5	200	5	5	2
MW-41D	12/16/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/17/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/18/2020	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/9/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/14/2021	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	6/26/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/20/2022	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/3/2023	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/10/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

a/ U = not detected above the method detection limit
Bolded values indicate an exceedence of the Groundwater Quality Standards
All sample concentrations in micrograms per liter (µg/l)
b/ All cleanup standards, except for 1,4-dioxane, are equal to the Maryland Generic Numeric Cleanup Standards for Groundwater,
Type I and II Aquifers, from the State of Maryland Interim Final Guidance (October 2018). Accessed May 27, 2020:
https://mde.maryland.gov/programs/LAND/MarylandBrownfieldVCP/Documents/www.mde.state.md.us/assets/document/M
c/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

ENCLOSURE D - LABORATORY ANALYTICAL REPORTS FOR JUNE 2025 MONITORING WELL AND RECOVERY WELL SAMPLES

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **WSP USA Inc.**

Project: Former KOP-Flex Facility Onsit
Workorder: 3420848
Report ID: 433652 on 6/27/2025

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 16, 2025.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
- Eric Johnson - WSP USA INC
- Erik Reinert - WSP USA Inc
- Jessica Mendez - WSP USA Inc.
- Stevie Henrick - WSP USA Inc.

Susan Scherer

Susan Scherer (ALS Digital Signature)
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3420848001	MW-35D	Ground Water	06/16/2025 08:35	06/16/2025 20:00	CBC	Collected By Client
3420848002	MW-43	Ground Water	06/16/2025 10:15	06/16/2025 20:00	CBC	Collected By Client
3420848003	MW-39	Ground Water	06/16/2025 10:35	06/16/2025 20:00	CBC	Collected By Client
3420848004	MW-38R	Ground Water	06/16/2025 11:10	06/16/2025 20:00	CBC	Collected By Client
3420848005	MW-42	Ground Water	06/16/2025 11:30	06/16/2025 20:00	CBC	Collected By Client
3420848006	MW-44	Ground Water	06/16/2025 12:00	06/16/2025 20:00	CBC	Collected By Client
3420848007	Trip Blank 1	Ground Water	06/16/2025 00:00	06/16/2025 20:00	CBC	Collected By Client
3420848008	MW-46D	Ground Water	06/16/2025 13:35	06/16/2025 20:00	CBC	Collected By Client
3420848009	MW-100	Ground Water	06/16/2025 13:00	06/16/2025 20:00	CBC	Collected By Client
3420848010	MW-21D	Ground Water	06/16/2025 14:10	06/16/2025 20:00	CBC	Collected By Client
3420848011	MW-01D	Ground Water	06/16/2025 14:35	06/16/2025 20:00	CBC	Collected By Client
3420848012	MW-22D	Ground Water	06/16/2025 15:00	06/16/2025 20:00	CBC	Collected By Client
3420848013	MW-04R	Ground Water	06/16/2025 15:15	06/16/2025 20:00	CBC	Collected By Client
3420848014	MW-20	Ground Water	06/16/2025 15:35	06/16/2025 20:00	CBC	Collected By Client
3420848015	MW-09	Ground Water	06/16/2025 15:55	06/16/2025 20:00	CBC	Collected By Client
3420848016	Trip Blank 2	Ground Water	06/16/2025 00:00	06/16/2025 20:00	CBC	Collected By Client
3420848017	MW-23D	Ground Water	06/16/2025 16:15	06/16/2025 20:00	CBC	Collected By Client
3420848018	MW-16	Ground Water	06/16/2025 16:35	06/16/2025 20:00	CBC	Collected By Client
3420848019	MW-16D	Ground Water	06/16/2025 17:00	06/16/2025 20:00	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	2-Butanone was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 20.63%. Acceptable limits are +/-20%.
2	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 160 and the control limits were 51 to 142.
3	Chloroethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 58.98%. Acceptable limits are +/-20%.
4	1,2-Dibromo-3-Chloropropane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 20.81%. Acceptable limits are +/-20%.
5	The initial calibration verification for method SW846 8260D was outside the control limits for the analyte Dichlorodifluoromethane. The % Recovery was reported as 149% and the control limits were 70 to 130%.
6	4-Methyl-2-Pentanone(MIBK) was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 23.73%. Acceptable limits are +/-20%.
7	Trichlorofluoromethane was recovered above the 20 percent 8260D criteria in the continuing calibration verification associated with this sample. The % drift/difference was reported at 27.84%. Acceptable limits are +/-20%.
8	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Benzene. The % Recovery was reported as 126 and the control limits were 80 to 124.
9	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 119 and the control limits were 85 to 117.
10	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chlorobenzene. The % Recovery was reported as 118 and the control limits were 85 to 117.
11	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 159 and the control limits were 51 to 142.
12	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Chloroethane. The % Recovery was reported as 165 and the control limits were 51 to 142.
13	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte 1,2-Dichlorobenzene. The % Recovery was reported as 120 and the control limits were 82 to 118.
14	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte 1,3-Dichlorobenzene. The % Recovery was reported as 121 and the control limits were 81 to 118.
15	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,3-Dichlorobenzene. The % Recovery was reported as 120 and the control limits were 81 to 118.
16	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 118 and the control limits were 81 to 116.
17	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte 1,4-Dichlorobenzene. The % Recovery was reported as 117 and the control limits were 81 to 116.
18	The surrogate Fluoranthene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 44 and the control limits were 45 to 130. This result was reported at a dilution of 1.
19	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,1-Dichloroethane. The % Recovery was reported as 128 and the control limits were 78 to 124.

20	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte 1,1-Dichloroethane. The % Recovery was reported as 126 and the control limits were 78 to 124.
21	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 130 and the control limits were 63 to 128.
22	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 126 and the control limits were 71 to 122.
23	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 126 and the control limits were 71 to 122.
24	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Styrene. The % Recovery was reported as 124 and the control limits were 79 to 123.
25	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Styrene. The % Recovery was reported as 126 and the control limits were 79 to 123.
26	The QC sample type MS for method SW846 8260D was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 130 and the control limits were 38 to 123.
27	The QC sample type MSD for method SW846 8260D was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 130 and the control limits were 38 to 123.
28	The QC sample type MSD for method SW846 8270E SIM was outside the control limits for the analyte 1,4-Dioxane. The % Recovery was reported as 84.9 and the control limits were 22 to 75.
29	The QC sample type MS for method SW846 8270E SIM was outside the control limits for the analyte 1,4-Dioxane. The % Recovery was reported as 104 and the control limits were 22 to 75.
30	The surrogate 2-Methylnapthalene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 0 and the control limits were 29 to 112. This result was reported at a dilution of 100.
31	The surrogate Fluoranthene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 0 and the control limits were 45 to 130. This result was reported at a dilution of 100.
32	The surrogate Fluoranthene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 42.5 and the control limits were 45 to 130. This result was reported at a dilution of 20.

Detected Results Summary

Client Sample ID	MW-43	Collected	06/16/2025 10:15
Lab Sample ID	3420848002	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	9.7	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.3	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	14.1	ug/L	1.0	SW846 8260D	#
Methyl t-Butyl Ether	1.6	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-39	Collected	06/16/2025 10:35
Lab Sample ID	3420848003	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
VOLATILE ORGANICS					
Methyl t-Butyl Ether	1.1	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-38R	Collected	06/16/2025 11:10
Lab Sample ID	3420848004	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	19.8	ug/L	4.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	9.2	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-42	Collected	06/16/2025 11:30
Lab Sample ID	3420848005	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	5.7	ug/L	1.0	SW846 8270E SIM	#

Detected Results Summary

Client Sample ID	MW-44	Collected	06/16/2025 12:00
Lab Sample ID	3420848006	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	1.7	ug/L	1.1	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	1.1	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	1.5	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	1.6	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-46D	Collected	06/16/2025 13:35
Lab Sample ID	3420848008	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	16.8	ug/L	4.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	1.7	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	10.7	ug/L	1.0	SW846 8260D	#

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Detected Results Summary

Client Sample ID	MW-100	Collected	06/16/2025 13:00
Lab Sample ID	3420848009	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	28.1	ug/L	4.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	3.5	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	17.6	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	70.2	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-21D	Collected	06/16/2025 14:10
Lab Sample ID	3420848010	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	6.0	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethene	16.4	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-01D	Collected	06/16/2025 14:35
Lab Sample ID	3420848011	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	5.1	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	3.6	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	17.8	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-22D	Collected	06/16/2025 15:00
Lab Sample ID	3420848012	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	1.7	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethene	8.3	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-04R	Collected	06/16/2025 15:15
Lab Sample ID	3420848013	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	34.7	ug/L	10.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	34.0	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	67.7	ug/L	1.0	SW846 8260D	#
1,2-Dichloroethane	1.0	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-20	Collected	06/16/2025 15:35
Lab Sample ID	3420848014	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	749	ug/L	100	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	407	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethene	601	ug/L	5.0	SW846 8260D	#
1,2-Dichloroethane	12.9	ug/L	5.0	SW846 8260D	#

Detected Results Summary

Client Sample ID MW-09 | Collected 06/16/2025 15:55
Lab Sample ID 3420848015 | Lab Receipt 06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	7.5	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1-Dichloroethane	2.1	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	42.9	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-23D	Collected	06/16/2025 16:15
Lab Sample ID	3420848017	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	32.4	ug/L	10.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	5.9	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	34.6	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	139	ug/L	1.0	SW846 8260D	#
1,2-Dichloroethane	1.3	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-16	Collected	06/16/2025 16:35
Lab Sample ID	3420848018	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	92.6	ug/L	21.7	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	786	ug/L	20.0	SW846 8260D	#
1,1-Dichloroethane	1080	ug/L	20.0	SW846 8260D	#
1,1-Dichloroethene	1470	ug/L	20.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	MW-16D	Collected	06/16/2025 17:00
Lab Sample ID	3420848019	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	22.4	ug/L	5.4	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	3.4	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	17.7	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	74.4	ug/L	1.0	SW846 8260D	#

Results

Client Sample ID	MW-35D	Collected	06/16/2025 08:35
Lab Sample ID	3420848001	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U	ug/L	1.0	SW846 8270E SIM	1	06/21/2025 05:47	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	70.3%	29 – 112	06/21/2025 05:47	
Fluoranthene-d10	93951-69-0	77.3%	45 – 130	06/21/2025 05:47	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A

Results

Client Sample ID	MW-35D	Collected	06/16/2025 08:35
Lab Sample ID	3420848001	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:39	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:39	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	06/24/2025 16:39	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	06/24/2025 16:39	
Dibromofluoromethane	1868-53-7	105%	78 – 116	06/24/2025 16:39	
Toluene-d8	2037-26-5	99%	76 – 127	06/24/2025 16:39	

Results

Client Sample ID	MW-43	Collected	06/16/2025 10:15
Lab Sample ID	3420848002	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	9.7		ug/L	1.0	SW846 8270E SIM	1	06/21/2025 06:15	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	83.4%	29 – 112	06/21/2025 06:15	
Fluoranthene-d10	93951-69-0	90.7%	45 – 130	06/21/2025 06:15	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1-Dichloroethane	1.3		ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1-Dichloroethene	14.1		ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A

Results

Client Sample ID	MW-43	Collected	06/16/2025 10:15
Lab Sample ID	3420848002	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Methyl t-Butyl Ether	1.6		ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:56	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:56	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 14:56	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	06/24/2025 14:56	
Dibromofluoromethane	1868-53-7	101%	78 – 116	06/24/2025 14:56	
Toluene-d8	2037-26-5	101%	76 – 127	06/24/2025 14:56	

Results

Client Sample ID	MW-39	Collected	06/16/2025 10:35
Lab Sample ID	3420848003	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.0 U	U	ug/L	1.0	SW846 8270E SIM	1	06/21/2025 06:42	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	78.3%	29 – 112	06/21/2025 06:42	
Fluoranthene-d10	93951-69-0	87.4%	45 – 130	06/21/2025 06:42	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A

Results

Client Sample ID	MW-39	Collected	06/16/2025 10:35
Lab Sample ID	3420848003	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Methyl t-Butyl Ether	1.1		ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:17	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:17	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	109%	62 – 133	06/24/2025 15:17	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	06/24/2025 15:17	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/24/2025 15:17	
Toluene-d8	2037-26-5	99.5%	76 – 127	06/24/2025 15:17	

Results

Client Sample ID	MW-38R	Collected	06/16/2025 11:10
Lab Sample ID	3420848004	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	19.8		ug/L	4.0	SW846 8270E SIM	4	06/25/2025 15:48	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	70.1%	29 – 112	06/21/2025 07:09	
2-Methylnapthalene-d10	7297-45-2	69.9%	29 – 112	06/25/2025 15:48	
Fluoranthene-d10	93951-69-0	76.9%	45 – 130	06/21/2025 07:09	
Fluoranthene-d10	93951-69-0	81.6%	45 – 130	06/25/2025 15:48	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1-Dichloroethane	9.2		ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A

Results

Client Sample ID	MW-38R	Collected	06/16/2025 11:10
Lab Sample ID	3420848004	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:37	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:37	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	06/24/2025 15:37	
4-Bromofluorobenzene	460-00-4	98.2%	79 – 114	06/24/2025 15:37	
Dibromofluoromethane	1868-53-7	104%	78 – 116	06/24/2025 15:37	
Toluene-d8	2037-26-5	101%	76 – 127	06/24/2025 15:37	

Results

Client Sample ID	MW-42	Collected	06/16/2025 11:30
Lab Sample ID	3420848005	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	5.7		ug/L	1.0	SW846 8270E SIM	1	06/21/2025 07:37	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	71.5%	29 – 112	06/21/2025 07:37	
Fluoranthene-d10	93951-69-0	80.3%	45 – 130	06/21/2025 07:37	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A

Results

Client Sample ID	MW-42	Collected	06/16/2025 11:30
Lab Sample ID	3420848005	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 15:58	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 15:58	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 15:58	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	06/24/2025 15:58	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/24/2025 15:58	
Toluene-d8	2037-26-5	99.5%	76 – 127	06/24/2025 15:58	

Results

Client Sample ID	MW-44	Collected	06/16/2025 12:00
Lab Sample ID	3420848006	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.7	28,29	ug/L	1.1	SW846 8270E SIM	1	06/24/2025 03:36	S7M	J

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	56.8%	29 – 112	06/24/2025 03:36	
Fluoranthene-d10	93951-69-0	44*%	45 – 130	06/24/2025 03:36	18

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1,1-Trichloroethane	1.1		ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1-Dichloroethane	1.5	19,20	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1-Dichloroethene	1.6	21	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2-Dichlorobenzene	1.0 U	U,13	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,3-Dichlorobenzene	1.0 U	U,14,15	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
1,4-Dichlorobenzene	1.0 U	U,16,17	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Benzene	1.0 U	U,8	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Chlorobenzene	1.0 U	U,9,10	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Chloroethane	1.0 U	U,2,3,11,12	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A

Results

Client Sample ID	MW-44	Collected	06/16/2025 12:00
Lab Sample ID	3420848006	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Styrene	1.0 U	U,24,25	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
trans-1,2-Dichloroethene	1.0 U	U,22,23	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Trichlorofluoromethane	1.0 U	U,7,26,27	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:18	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:18	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 16:18	
4-Bromofluorobenzene	460-00-4	96.6%	79 – 114	06/24/2025 16:18	
Dibromofluoromethane	1868-53-7	101%	78 – 116	06/24/2025 16:18	
Toluene-d8	2037-26-5	98.4%	76 – 127	06/24/2025 16:18	

Results

Client Sample ID	Trip Blank 1	Collected	06/16/2025 00:00
Lab Sample ID	3420848007	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A

Results

Client Sample ID	Trip Blank 1	Collected	06/16/2025 00:00
Lab Sample ID	3420848007	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 14:36	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 14:36	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 14:36	
4-Bromofluorobenzene	460-00-4	98.9%	79 – 114	06/24/2025 14:36	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/24/2025 14:36	
Toluene-d8	2037-26-5	99.9%	76 – 127	06/24/2025 14:36	

Results

Client Sample ID	MW-46D	Collected	06/16/2025 13:35
Lab Sample ID	3420848008	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	16.8		ug/L	4.0	SW846 8270E SIM	4	06/25/2025 16:19	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	69%	29 – 112	06/21/2025 08:04	
2-Methylnapthalene-d10	7297-45-2	65.1%	29 – 112	06/25/2025 16:19	
Fluoranthene-d10	93951-69-0	78%	45 – 130	06/21/2025 08:04	
Fluoranthene-d10	93951-69-0	80.5%	45 – 130	06/25/2025 16:19	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1-Dichloroethane	1.7		ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1-Dichloroethene	10.7		ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A

Results

Client Sample ID	MW-46D	Collected	06/16/2025 13:35
Lab Sample ID	3420848008	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 16:59	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 16:59	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 16:59	
4-Bromofluorobenzene	460-00-4	98.8%	79 – 114	06/24/2025 16:59	
Dibromofluoromethane	1868-53-7	101%	78 – 116	06/24/2025 16:59	
Toluene-d8	2037-26-5	99.1%	76 – 127	06/24/2025 16:59	

Results

Client Sample ID	MW-100	Collected	06/16/2025 13:00
Lab Sample ID	3420848009	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	28.1		ug/L	4.0	SW846 8270E SIM	4	06/25/2025 16:50	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	69.9%	29 – 112	06/21/2025 08:32	
2-Methylnapthalene-d10	7297-45-2	65.9%	29 – 112	06/25/2025 16:50	
Fluoranthene-d10	93951-69-0	79.4%	45 – 130	06/21/2025 08:32	
Fluoranthene-d10	93951-69-0	83.2%	45 – 130	06/25/2025 16:50	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1,1-Trichloroethane	3.5		ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1-Dichloroethane	17.6		ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1-Dichloroethene	70.2		ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A

Results

Client Sample ID	MW-100	Collected	06/16/2025 13:00
Lab Sample ID	3420848009	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:20	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:20	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 – 133	06/24/2025 17:20	
4-Bromofluorobenzene	460-00-4	97.1%	79 – 114	06/24/2025 17:20	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/24/2025 17:20	
Toluene-d8	2037-26-5	98.9%	76 – 127	06/24/2025 17:20	

Results

Client Sample ID	MW-21D	Collected	06/16/2025 14:10
Lab Sample ID	3420848010	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	6.0		ug/L	1.0	SW846 8270E SIM	1	06/21/2025 08:59	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	83.5%	29 – 112	06/21/2025 08:59	
Fluoranthene-d10	93951-69-0	95%	45 – 130	06/21/2025 08:59	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1-Dichloroethene	16.4		ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A

Results

Client Sample ID	MW-21D	Collected	06/16/2025 14:10
Lab Sample ID	3420848010	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 17:41	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 17:41	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	112%	62 – 133	06/24/2025 17:41	
4-Bromofluorobenzene	460-00-4	100%	79 – 114	06/24/2025 17:41	
Dibromofluoromethane	1868-53-7	102%	78 – 116	06/24/2025 17:41	
Toluene-d8	2037-26-5	99.4%	76 – 127	06/24/2025 17:41	

Results

Client Sample ID	MW-01D	Collected	06/16/2025 14:35
Lab Sample ID	3420848011	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	5.1		ug/L	1.0	SW846 8270E SIM	1	06/25/2025 17:51	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	59.7%	29 – 112	06/25/2025 17:51	
Fluoranthene-d10	93951-69-0	79.6%	45 – 130	06/25/2025 17:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1-Dichloroethane	3.6		ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1-Dichloroethene	17.8		ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A

Results

Client Sample ID	MW-01D	Collected	06/16/2025 14:35
Lab Sample ID	3420848011	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:01	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:01	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	108%	62 – 133	06/24/2025 18:01	
4-Bromofluorobenzene	460-00-4	94.6%	79 – 114	06/24/2025 18:01	
Dibromofluoromethane	1868-53-7	102%	78 – 116	06/24/2025 18:01	
Toluene-d8	2037-26-5	98.9%	76 – 127	06/24/2025 18:01	

Results

Client Sample ID	MW-22D	Collected	06/16/2025 15:00
Lab Sample ID	3420848012	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	1.7		ug/L	1.0	SW846 8270E SIM	1	06/25/2025 18:21	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	56.1%	29 – 112	06/25/2025 18:21	
Fluoranthene-d10	93951-69-0	77.9%	45 – 130	06/25/2025 18:21	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1-Dichloroethene	8.3		ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A

Results

Client Sample ID	MW-22D	Collected	06/16/2025 15:00
Lab Sample ID	3420848012	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:22	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:22	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	111%	62 – 133	06/24/2025 18:22	
4-Bromofluorobenzene	460-00-4	98.6%	79 – 114	06/24/2025 18:22	
Dibromofluoromethane	1868-53-7	104%	78 – 116	06/24/2025 18:22	
Toluene-d8	2037-26-5	99.8%	76 – 127	06/24/2025 18:22	

Results

Client Sample ID	MW-04R	Collected	06/16/2025 15:15
Lab Sample ID	3420848013	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	34.7		ug/L	10.0	SW846 8270E SIM	10	06/25/2025 18:51	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	63%	29 – 112	06/25/2025 18:51	
Fluoranthene-d10	93951-69-0	81.2%	45 – 130	06/25/2025 18:51	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1-Dichloroethane	34.0		ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1-Dichloroethene	67.7		ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,4	ug/L	7.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2-Dichloroethane	1.0		ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
2-Butanone	10.0 U	U,1	ug/L	10.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,6	ug/L	5.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Chloroethane	1.0 U	U,2,3	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A

Results

Client Sample ID	MW-04R	Collected	06/16/2025 15:15
Lab Sample ID	3420848013	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Dichlorodifluoromethane	1.0 U	U,5	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Trichlorofluoromethane	1.0 U	U,7	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/24/2025 18:42	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/24/2025 18:42	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	110%	62 – 133	06/24/2025 18:42	
4-Bromofluorobenzene	460-00-4	96.9%	79 – 114	06/24/2025 18:42	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/24/2025 18:42	
Toluene-d8	2037-26-5	97.9%	76 – 127	06/24/2025 18:42	

Results

Client Sample ID	MW-20	Collected	06/16/2025 15:35
Lab Sample ID	3420848014	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	749		ug/L	100	SW846 8270E SIM	100	06/26/2025 07:28	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	75.6%	29 – 112	06/25/2025 05:26	
2-Methylnapthalene-d10	7297-45-2	0*%	29 – 112	06/26/2025 07:28	30
Fluoranthene-d10	93951-69-0	89.8%	45 – 130	06/25/2025 05:26	
Fluoranthene-d10	93951-69-0	0*%	45 – 130	06/26/2025 07:28	31

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1,1-Trichloroethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1,2,2-Tetrachloroethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1,2-Trichloroethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1-Dichloroethane	407		ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1-Dichloroethene	601		ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,1-Dichloropropene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2,3-Trichlorobenzene	10.0 U	U	ug/L	10.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2,3-Trichloropropane	10.0 U	U	ug/L	10.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2,4-Trichlorobenzene	10.0 U	U	ug/L	10.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2-Dibromo-3-chloropropane	35.0 U	U	ug/L	35.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2-Dibromoethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2-Dichlorobenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2-Dichloroethane	12.9		ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,2-Dichloropropane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,3-Dichlorobenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,3-Dichloropropane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
1,4-Dichlorobenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
2,2-Dichloropropane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
2-Butanone	50.0 U	U	ug/L	50.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
2-Hexanone	25.0 U	U	ug/L	25.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
4-Methyl-2-Pentanone(MIBK)	25.0 U	U	ug/L	25.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Acetone	50.0 U	U	ug/L	50.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Benzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Bromobenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Bromochloromethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Bromodichloromethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Bromoform	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Bromomethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Carbon Tetrachloride	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Chlorobenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Chlorodibromomethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Chloroethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A

Results

Client Sample ID	MW-20	Collected	06/16/2025 15:35
Lab Sample ID	3420848014	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Chloromethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
cis-1,2-Dichloroethene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
cis-1,3-Dichloropropene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Dibromomethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Dichlorodifluoromethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Diisopropyl ether	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Ethylbenzene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Hexachlorobutadiene	25.0 U	U	ug/L	25.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Methyl t-Butyl Ether	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Methylene Chloride	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
mp-Xylene	10.0 U	U	ug/L	10.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Naphthalene	10.0 U	U	ug/L	10.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
o-Chlorotoluene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
o-Xylene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
p-Chlorotoluene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
p-Isopropyltoluene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Styrene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Tetrachloroethene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Toluene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Total Xylenes	15.0 U	U	ug/L	15.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
trans-1,2-Dichloroethene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
trans-1,3-Dichloropropene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Trichloroethene	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Trichlorofluoromethane	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Vinyl Acetate	25.0 U	U	ug/L	25.0	SW846 8260D	5	06/25/2025 18:47	IXK	A
Vinyl Chloride	5.0 U	U	ug/L	5.0	SW846 8260D	5	06/25/2025 18:47	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	98.1%	62 – 133	06/25/2025 18:47	
4-Bromofluorobenzene	460-00-4	98.9%	79 – 114	06/25/2025 18:47	
Dibromofluoromethane	1868-53-7	101%	78 – 116	06/25/2025 18:47	
Toluene-d8	2037-26-5	101%	76 – 127	06/25/2025 18:47	

Results

Client Sample ID	MW-09	Collected	06/16/2025 15:55
Lab Sample ID	3420848015	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	7.5		ug/L	1.0	SW846 8270E SIM	1	06/25/2025 05:54	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	75.6%	29 – 112	06/25/2025 05:54	
Fluoranthene-d10	93951-69-0	91.1%	45 – 130	06/25/2025 05:54	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1-Dichloroethane	2.1		ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1-Dichloroethene	42.9		ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A

Results

Client Sample ID	MW-09	Collected	06/16/2025 15:55
Lab Sample ID	3420848015	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:14	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:14	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	102%	62 – 133	06/25/2025 14:14	
4-Bromofluorobenzene	460-00-4	106%	79 – 114	06/25/2025 14:14	
Dibromofluoromethane	1868-53-7	104%	78 – 116	06/25/2025 14:14	
Toluene-d8	2037-26-5	109%	76 – 127	06/25/2025 14:14	

Results

Client Sample ID	Trip Blank 2	Collected	06/16/2025 00:00
Lab Sample ID	3420848016	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1,1-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A

Results

Client Sample ID	Trip Blank 2	Collected	06/16/2025 00:00
Lab Sample ID	3420848016	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 12:42	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 12:42	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.6%	62 – 133	06/25/2025 12:42	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	06/25/2025 12:42	
Dibromofluoromethane	1868-53-7	100%	78 – 116	06/25/2025 12:42	
Toluene-d8	2037-26-5	105%	76 – 127	06/25/2025 12:42	

Results

Client Sample ID	MW-23D	Collected	06/16/2025 16:15
Lab Sample ID	3420848017	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	32.4		ug/L	10.0	SW846 8270E SIM	10	06/26/2025 07:55	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	65.2%	29 – 112	06/25/2025 06:22	
2-Methylnapthalene-d10	7297-45-2	36.4%	29 – 112	06/26/2025 07:55	
Fluoranthene-d10	93951-69-0	83.4%	45 – 130	06/25/2025 06:22	
Fluoranthene-d10	93951-69-0	47.7%	45 – 130	06/26/2025 07:55	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1,1-Trichloroethane	5.9		ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1-Dichloroethane	34.6		ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1-Dichloroethene	139		ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2-Dichloroethane	1.3		ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A

Results

Client Sample ID	MW-23D	Collected	06/16/2025 16:15
Lab Sample ID	3420848017	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:36	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:36	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	06/25/2025 14:36	
4-Bromofluorobenzene	460-00-4	107%	79 – 114	06/25/2025 14:36	
Dibromofluoromethane	1868-53-7	103%	78 – 116	06/25/2025 14:36	
Toluene-d8	2037-26-5	106%	76 – 127	06/25/2025 14:36	

Results

Client Sample ID	MW-16	Collected	06/16/2025 16:35
Lab Sample ID	3420848018	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	92.6		ug/L	21.7	SW846 8270E SIM	20	06/26/2025 08:23	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	61%	29 – 112	06/25/2025 06:50	
2-Methylnapthalene-d10	7297-45-2	30.8%	29 – 112	06/26/2025 08:23	
Fluoranthene-d10	93951-69-0	78.7%	45 – 130	06/25/2025 06:50	
Fluoranthene-d10	93951-69-0	42.5*%	45 – 130	06/26/2025 08:23	32

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1,1-Trichloroethane	786		ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1,2,2-Tetrachloroethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1,2-Trichloroethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1-Dichloroethane	1080		ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1-Dichloroethene	1470		ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,1-Dichloropropene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2,3-Trichlorobenzene	40.0 U	U	ug/L	40.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2,3-Trichloropropane	40.0 U	U	ug/L	40.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2,4-Trichlorobenzene	40.0 U	U	ug/L	40.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2-Dibromo-3-chloropropane	140 U	U	ug/L	140	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2-Dibromoethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2-Dichlorobenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2-Dichloroethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,2-Dichloropropane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,3-Dichlorobenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,3-Dichloropropane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
1,4-Dichlorobenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
2,2-Dichloropropane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
2-Butanone	200 U	U	ug/L	200	SW846 8260D	20	06/25/2025 18:01	IXK	A
2-Hexanone	100 U	U	ug/L	100	SW846 8260D	20	06/25/2025 18:01	IXK	A
4-Methyl-2-Pentanone(MIBK)	100 U	U	ug/L	100	SW846 8260D	20	06/25/2025 18:01	IXK	A
Acetone	200 U	U	ug/L	200	SW846 8260D	20	06/25/2025 18:01	IXK	A
Benzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Bromobenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Bromochloromethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Bromodichloromethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Bromoform	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Bromomethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Carbon Tetrachloride	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Chlorobenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Chlorodibromomethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Chloroethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A

Results

Client Sample ID	MW-16	Collected	06/16/2025 16:35
Lab Sample ID	3420848018	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Chloromethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
cis-1,2-Dichloroethene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
cis-1,3-Dichloropropene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Dibromomethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Dichlorodifluoromethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Diisopropyl ether	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Ethylbenzene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Hexachlorobutadiene	100 U	U	ug/L	100	SW846 8260D	20	06/25/2025 18:01	IXK	A
Methyl t-Butyl Ether	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Methylene Chloride	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
mp-Xylene	40.0 U	U	ug/L	40.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Naphthalene	40.0 U	U	ug/L	40.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
o-Chlorotoluene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
o-Xylene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
p-Chlorotoluene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
p-Isopropyltoluene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Styrene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Tetrachloroethene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Toluene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Total Xylenes	60.0 U	U	ug/L	60.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
trans-1,2-Dichloroethene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
trans-1,3-Dichloropropene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Trichloroethene	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Trichlorofluoromethane	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A
Vinyl Acetate	100 U	U	ug/L	100	SW846 8260D	20	06/25/2025 18:01	IXK	A
Vinyl Chloride	20.0 U	U	ug/L	20.0	SW846 8260D	20	06/25/2025 18:01	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.9%	62 – 133	06/25/2025 18:01	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	06/25/2025 18:01	
Dibromofluoromethane	1868-53-7	102%	78 – 116	06/25/2025 18:01	
Toluene-d8	2037-26-5	103%	76 – 127	06/25/2025 18:01	

Results

Client Sample ID	MW-16D	Collected	06/16/2025 17:00
Lab Sample ID	3420848019	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	22.4		ug/L	5.4	SW846 8270E SIM	5	06/26/2025 08:52	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	52.6%	29 – 112	06/25/2025 07:17	
2-Methylnapthalene-d10	7297-45-2	50.1%	29 – 112	06/26/2025 08:52	
Fluoranthene-d10	93951-69-0	51.5%	45 – 130	06/25/2025 07:17	
Fluoranthene-d10	93951-69-0	51.1%	45 – 130	06/26/2025 08:52	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1,1-Trichloroethane	3.4		ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1,2,2-Tetrachloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1,2-Trichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1-Dichloroethane	17.7		ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1-Dichloroethene	74.4		ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,1-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2,3-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2,3-Trichloropropane	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2,4-Trichlorobenzene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2-Dibromo-3-chloropropane	7.0 U	U	ug/L	7.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2-Dibromoethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2-Dichloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,3-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,3-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
1,4-Dichlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
2,2-Dichloropropane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
2-Butanone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
2-Hexanone	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Acetone	10.0 U	U	ug/L	10.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Benzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Bromobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Bromochloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Bromodichloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Bromoform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Bromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Carbon Tetrachloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Chlorobenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Chlorodibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Chloroethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A

Results

Client Sample ID	MW-16D	Collected	06/16/2025 17:00
Lab Sample ID	3420848019	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Chloromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
cis-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
cis-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Dibromomethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Dichlorodifluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Diisopropyl ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Ethylbenzene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Hexachlorobutadiene	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Methyl t-Butyl Ether	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Methylene Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
mp-Xylene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Naphthalene	2.0 U	U	ug/L	2.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
o-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
o-Xylene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
p-Chlorotoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
p-Isopropyltoluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Styrene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Tetrachloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Toluene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Total Xylenes	3.0 U	U	ug/L	3.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
trans-1,2-Dichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
trans-1,3-Dichloropropene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Trichloroethene	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Trichlorofluoromethane	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Vinyl Acetate	5.0 U	U	ug/L	5.0	SW846 8260D	1	06/25/2025 14:59	IXK	A
Vinyl Chloride	1.0 U	U	ug/L	1.0	SW846 8260D	1	06/25/2025 14:59	IXK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.5%	62 – 133	06/25/2025 14:59	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	06/25/2025 14:59	
Dibromofluoromethane	1868-53-7	102%	78 – 116	06/25/2025 14:59	
Toluene-d8	2037-26-5	104%	76 – 127	06/25/2025 14:59	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3420848001	MW-35D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848002	MW-43	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848003	MW-39	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848004	MW-38R	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848005	MW-42	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848006	MW-44	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848007	Trip Blank 1	SW846 8260D	N/A	
3420848008	MW-46D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848009	MW-100	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848010	MW-21D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848011	MW-01D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848012	MW-22D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848013	MW-04R	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848014	MW-20	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848015	MW-09	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848016	Trip Blank 2	SW846 8260D	N/A	
3420848017	MW-23D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848018	MW-16	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420848019	MW-16D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

SEMIVOLATILE SIM

QC Batch

QC Batch	1445053	Prep Method	SW846 3510C
Date	06/19/2025 10:00	Analysis Method	SW846 8270E SIM
Tech.	BMP		

Associated Samples

3420848001	3420848002	3420848003	3420848004
3420848005	3420848008	3420848009	3420848010

Method Blank 4001443 (MB) Created on 06/19/2025 07:59 For QC Batch 1445053

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dioxane	123-91-1	BLK	1.0 U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	BLK	0.66	1	65.8	29 - 112	
Fluoranthene-d10	93951-69-0	BLK	0.8	1	80.1	45 - 130	

Lab Control Standard 4001444 (LCS) Created on 06/19/2025 07:59 For QC Batch 1445053

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	0.44		1	44.1	22 - 75		U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	LCS	0.6	1	59.7	29 - 112	
Fluoranthene-d10	93951-69-0	LCS	0.74	1	74.3	45 - 130	

QC Batch

QC Batch	1445456	Prep Method	SW846 3510C
Date	06/23/2025 10:55	Analysis Method	SW846 8270E SIM
Tech.	BMP		

Associated Samples

3420848006	3420848011	3420848012	3420848013
3420848014	3420848015	3420848017	3420848018
3420848019			

Method Blank 4002386 (MB) Created on 06/20/2025 17:11 For QC Batch 1445456

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dioxane	123-91-1	BLK	1.0 U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

SEMIVOLATILE SIM (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	BLK	0.59	1	58.6	29 - 112	
Fluoranthene-d10	93951-69-0	BLK	0.75	1	75	45 - 130	

Lab Control Standard 4002387 (LCS) Created on 06/20/2025 17:11 For QC Batch 1445456

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	0.6		1	60.2	22 - 75		U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	LCS	0.77	1	76.8	29 - 112	
Fluoranthene-d10	93951-69-0	LCS	0.93	1	93.5	45 - 130	

Matrix Spike 4002388 (MS) 3420848006 For QC Batch 1445456

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 4002389 (MSD) 3420848006 For QC Batch 1445456

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	MS	2.8	1.70	1	104*	22 - 75		
1,4-Dioxane	123-91-1	MSD	2.6	1.70	1	84.9*	22 - 75	RPD 6.99 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	MS	0.72	1	71.7	29 - 112	
2-Methylnapthalene-d10	7297-45-2	MSD	0.71	1	71.3	29 - 112	
Fluoranthene-d10	93951-69-0	MS	0.89	1	88.8	45 - 130	
Fluoranthene-d10	93951-69-0	MSD	0.53	1	52.8	45 - 130	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch	1447929	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3420848001	3420848002	3420848003	3420848004
3420848005	3420848006	3420848007	3420848008
3420848009	3420848010	3420848011	3420848012
3420848013			

Method Blank 4003524 (MB) Created on 06/24/2025 14:23 For QC Batch 1447929

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	32	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	29.9	30	99.6	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	30.6	30	102	78 - 116	
Toluene-d8	2037-26-5	BLK	29.9	30	99.5	76 - 127	

Lab Control Standard 4003525 (LCS) Created on 06/24/2025 14:23 For QC Batch 1447929

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.3		20	96.5	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	22.3		20	111	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	24.1		20	121	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	22.2		20	111	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	22.1		20	111	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.5		20	107	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	21.1		20	106	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.5		20	103	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	23.6		20	118	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.9		20	115	67 - 123		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.8		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.8		20	109	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	22.3		20	111	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	22.1		20	110	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	22		20	110	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	22.4		20	112	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	21.5		20	108	82 - 126		
1,4-Dichlorobenzene	106-46-7	LCS	22.2		20	111	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	21.1		20	106	64 - 129		
2-Butanone	78-93-3	LCS	136		100	136	50 - 152		
2-Hexanone	591-78-6	LCS	123		100	123	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	125		100	125	71 - 146		
Acetone	67-64-1	LCS	151		100	151	40 - 151		
Benzene	71-43-2	LCS	21.6		20	108	80 - 124		
Bromobenzene	108-86-1	LCS	21.4		20	107	81 - 119		
Bromochloromethane	74-97-5	LCS	20.9		20	105	73 - 117		
Bromodichloromethane	75-27-4	LCS	22.7		20	113	79 - 126		
Bromoform	75-25-2	LCS	19.4		20	96.8	70 - 123		
Bromomethane	74-83-9	LCS	18		20	90	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	20.1		20	100	62 - 132		
Chlorobenzene	108-90-7	LCS	21.6		20	108	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.8		20	94.2	77 - 122		
Chloroethane	75-00-3	LCS	32		20	160*	51 - 142		
Chloroform	67-66-3	LCS	21.8		20	109	78 - 122		
Chloromethane	74-87-3	LCS	18.6		20	92.9	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21.8		20	109	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.9		20	94.4	81 - 121		
Dibromomethane	74-95-3	LCS	22.8		20	114	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	20.3		20	102	17 - 166		
Diisopropyl ether	108-20-3	LCS	20.9		20	104	74 - 131		
Ethylbenzene	100-41-4	LCS	21.6		20	108	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	23.6		20	118	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	21.6		20	108	69 - 115		
Methylene Chloride	75-09-2	LCS	21.3		20	106	76 - 121		
mp-Xylene	108383/106423	LCS	42.2		40	105	79 - 125		
Naphthalene	91-20-3	LCS	21.1		20	105	56 - 134		
o-Chlorotoluene	95-49-8	LCS	22.6		20	113	78 - 126		
o-Xylene	95-47-6	LCS	21.1		20	105	79 - 124		
p-Chlorotoluene	106-43-4	LCS	22.4		20	112	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	22.9		20	115	72 - 123		
Styrene	100-42-5	LCS	23.1		20	116	79 - 123		
Tetrachloroethene	127-18-4	LCS	22.2		20	111	72 - 124		
Toluene	108-88-3	LCS	20.6		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	63.3		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.6		20	108	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	20.1		20	100	78 - 126		
Trichloroethene	79-01-6	LCS	21.3		20	107	77 - 124		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Trichlorofluoromethane	75-69-4	LCS	24		20	120	38 - 123		
Vinyl Acetate	108-05-4	LCS	18.8		20	94	58 - 136		
Vinyl Chloride	75-01-4	LCS	20.8		20	104	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	32.7	30	109	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30	30	99.9	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	31.2	30	104	78 - 116	
Toluene-d8	2037-26-5	LCS	29.8	30	99.2	76 - 127	

Matrix Spike 4003526 (MS) 3420848006 For QC Batch 1447929

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 4003527 (MSD) 3420848006 For QC Batch 1447929

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	20.8	0	20	104	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	20.9	0	20	104	78 - 121	RPD 0.33 (Max-40)	
1,1,1-Trichloroethane	71-55-6	MS	26.8	1.10	20	128	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	26.8	1.10	20	128	66 - 130	RPD 0.06 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	26.4	0	20	132	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	26.2	0	20	131	74 - 135	RPD 0.73 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	24.2	0	20	121	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	24	0	20	120	82 - 126	RPD 1.13 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	27.1	1.50	20	128*	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	26.7	1.50	20	126*	78 - 124	RPD 1.30 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	27.5	1.60	20	130*	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	26.9	1.60	20	127	63 - 128	RPD 2.22 (Max-40)	
1,1-Dichloropropene	563-58-6	MS	25.2	0	20	126	76 - 126		
1,1-Dichloropropene	563-58-6	MSD	24.8	0	20	124	76 - 126	RPD 1.80 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	21	0	20	105	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	20.3	0	20	102	61 - 126	RPD 3.30 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	24.9	0	20	125	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	25	0	20	125	75 - 132	RPD 0.33 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	23.8	0	20	119	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	23.5	0	20	118	67 - 123	RPD 1.15 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	24.2	0	20	121	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	25.2	0	20	126	59 - 133	RPD 3.91 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	23.1	0	20	116	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	22.8	0	20	114	80 - 124	RPD 1.68 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	23.6	0	20	118	82 - 118		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dichlorobenzene	95-50-1	MSD	23.9	0	20	120*	82 - 118	RPD 1.24 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	24.4	0	20	122	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	23.7	0	20	119	70 - 133	RPD 2.76 (Max-40)	
1,2-Dichloropropane	78-87-5	MS	24.7	0	20	123	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	24.8	0	20	124	81 - 127	RPD 0.62 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	24.1	0	20	120*	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	24.1	0	20	121*	81 - 118	RPD 0.35 (Max-40)	
1,3-Dichloropropane	142-28-9	MS	23.4	0	20	117	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	23.4	0	20	117	82 - 126	RPD 0.06 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	23.6	0	20	118*	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	23.5	0	20	117*	81 - 116	RPD 0.50 (Max-40)	
2,2-Dichloropropane	594-20-7	MS	21.2	0	20	106	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	21	0	20	105	64 - 129	RPD 0.95 (Max-40)	
2-Butanone	78-93-3	MS	146	0	100	146	50 - 152		
2-Butanone	78-93-3	MSD	145	0	100	145	50 - 152	RPD 1.35 (Max-40)	
2-Hexanone	591-78-6	MS	131	0	100	131	65 - 154		
2-Hexanone	591-78-6	MSD	133	0	100	133	65 - 154	RPD 1.71 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	140	0	100	140	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	141	0	100	141	71 - 146	RPD 0.14 (Max-40)	
Acetone	67-64-1	MS	127	0	100	127	40 - 151		
Acetone	67-64-1	MSD	124	0	100	124	40 - 151	RPD 2.19 (Max-40)	
Benzene	71-43-2	MS	25.1	0	20	126*	80 - 124		
Benzene	71-43-2	MSD	24.9	0	20	124	80 - 124	RPD 1.07 (Max-40)	
Bromobenzene	108-86-1	MS	22.6	0	20	113	81 - 119		
Bromobenzene	108-86-1	MSD	22.9	0	20	114	81 - 119	RPD 1.07 (Max-40)	
Bromochloromethane	74-97-5	MS	23.1	0	20	116	73 - 117		
Bromochloromethane	74-97-5	MSD	22.8	0	20	114	73 - 117	RPD 1.31 (Max-40)	
Bromodichloromethane	75-27-4	MS	25.1	0	20	126	79 - 126		
Bromodichloromethane	75-27-4	MSD	25	0	20	125	79 - 126	RPD 0.42 (Max-40)	
Bromoform	75-25-2	MS	19.4	0	20	97	70 - 123		
Bromoform	75-25-2	MSD	19.7	0	20	98.7	70 - 123	RPD 1.70 (Max-40)	
Bromomethane	74-83-9	MS	19.2	0	20	95.8	45 - 148		
Bromomethane	74-83-9	MSD	20.3	0	20	102	45 - 148	RPD 5.83 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	22.2	0	20	111	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	22.1	0	20	111	62 - 132	RPD 0.22 (Max-40)	
Chlorobenzene	108-90-7	MS	23.6	0	20	118*	85 - 117		
Chlorobenzene	108-90-7	MSD	23.7	0	20	119*	85 - 117	RPD 0.70 (Max-40)	
Chlorodibromomethane	124-48-1	MS	19.3	0	20	96.6	77 - 122		
Chlorodibromomethane	124-48-1	MSD	19.2	0	20	96.2	77 - 122	RPD 0.34 (Max-40)	
Chloroethane	75-00-3	MS	33.1	0	20	165*	51 - 142		
Chloroethane	75-00-3	MSD	31.9	0	20	159*	51 - 142	RPD 3.65 (Max-40)	
Chloroform	67-66-3	MS	24.1	0	20	121	78 - 122		
Chloroform	67-66-3	MSD	23.8	0	20	119	78 - 122	RPD 1.22 (Max-40)	
Chloromethane	74-87-3	MS	21.3	0	20	106	38 - 156		
Chloromethane	74-87-3	MSD	21.9	0	20	110	38 - 156	RPD 2.96 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	24.4	0	20	122	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	24.5	0	20	123	78 - 125	RPD 0.69 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	19.6	0	20	98.2	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	19.7	0	20	98.7	81 - 121	RPD 0.46 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Dibromomethane	74-95-3	MS	24.6	0	20	123	81 - 125		
Dibromomethane	74-95-3	MSD	24	0	20	120	81 - 125	RPD 2.62 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	26.9	0	20	135	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	27	0	20	135	17 - 166	RPD 0.34 (Max-40)	
Diisopropyl ether	108-20-3	MS	23.3	0	20	117	74 - 131		
Diisopropyl ether	108-20-3	MSD	23	0	20	115	74 - 131	RPD 1.38 (Max-40)	
Ethylbenzene	100-41-4	MS	24	0	20	120	80 - 124		
Ethylbenzene	100-41-4	MSD	23.8	0	20	119	80 - 124	RPD 0.77 (Max-40)	
Hexachlorobutadiene	87-68-3	MS	24.8	0	20	124	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	21.9	0	20	110	55 - 128	RPD 12.50 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	22.7	0	20	114	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	22.6	0	20	113	69 - 115	RPD 0.33 (Max-40)	
Methylene Chloride	75-09-2	MS	24.1	0	20	120	76 - 121		
Methylene Chloride	75-09-2	MSD	23.5	0	20	117	76 - 121	RPD 2.63 (Max-40)	
mp-Xylene	108383/106423	MS	46.6	0	40	116	79 - 125		
mp-Xylene	108383/106423	MSD	46.4	0	40	116	79 - 125	RPD 0.44 (Max-40)	
Naphthalene	91-20-3	MS	21.1	0	20	105	56 - 134		
Naphthalene	91-20-3	MSD	21.4	0	20	107	56 - 134	RPD 1.43 (Max-40)	
o-Chlorotoluene	95-49-8	MS	24.6	0	20	123	78 - 126		
o-Chlorotoluene	95-49-8	MSD	24.7	0	20	123	78 - 126	RPD 0.28 (Max-40)	
o-Xylene	95-47-6	MS	22.7	0	20	114	79 - 124		
o-Xylene	95-47-6	MSD	22.4	0	20	112	79 - 124	RPD 1.28 (Max-40)	
p-Chlorotoluene	106-43-4	MS	24.3	0	20	122	78 - 125		
p-Chlorotoluene	106-43-4	MSD	24.5	0	20	122	78 - 125	RPD 0.76 (Max-40)	
p-Isopropyltoluene	99-87-6	MS	24.2	0	20	121	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	24.2	0	20	121	72 - 123	RPD 0.02 (Max-40)	
Styrene	100-42-5	MS	25.3	0	20	126*	79 - 123		
Styrene	100-42-5	MSD	24.7	0	20	124*	79 - 123	RPD 2.31 (Max-40)	
Tetrachloroethene	127-18-4	MS	22.5	0	20	112	72 - 124		
Tetrachloroethene	127-18-4	MSD	22.8	0	20	114	72 - 124	RPD 1.30 (Max-40)	
Toluene	108-88-3	MS	23.2	0	20	116	80 - 125		
Toluene	108-88-3	MSD	23	0	20	115	80 - 125	RPD 0.77 (Max-40)	
Total Xylenes	1330-20-7	MS	69.3	0	60	116	79 - 125		
Total Xylenes	1330-20-7	MSD	68.8	0	60	115	79 - 125	RPD 0.71 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	25.2	0	20	126*	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	25.1	0	20	126*	71 - 122	RPD 0.28 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	21.1	0	20	106	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21	0	20	105	78 - 126	RPD 0.56 (Max-40)	
Trichloroethene	79-01-6	MS	23.6	0	20	118	77 - 124		
Trichloroethene	79-01-6	MSD	24	0	20	120	77 - 124	RPD 1.79 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	26	0	20	130*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	25.9	0	20	130*	38 - 123	RPD 0.37 (Max-40)	
Vinyl Acetate	108-05-4	MS	18.1	0	20	90.4	58 - 136		
Vinyl Acetate	108-05-4	MSD	18	0	20	89.8	58 - 136	RPD 0.70 (Max-40)	
Vinyl Chloride	75-01-4	MS	23.5	0	20	118	27 - 138		
Vinyl Chloride	75-01-4	MSD	23.6	0	20	118	27 - 138	RPD 0.37 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	33.9	30	113	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	33	30	110	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	29.7	30	98.9	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	28.8	30	96	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.8	30	103	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.7	30	102	78 - 116	
Toluene-d8	2037-26-5	MS	29.4	30	98	76 - 127	
Toluene-d8	2037-26-5	MSD	29.6	30	98.6	76 - 127	

QC Batch

QC Batch	1448163	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3420848014	3420848015	3420848016	3420848017
3420848018	3420848019		

Matrix Spike 4004157 (MS) 3420851005 (non-Project Sample) For QC Batch 1448163

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 4004158 (MSD) 3420851005 (non-Project Sample) For QC Batch 1448163

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	23.9	0	20	120	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	22.7	0	20	113	78 - 121	RPD 5.40 (Max-40)	
1,1,1-Trichloroethane	71-55-6	MS	26.9	2.30	20	123	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	25.7	2.30	20	117	66 - 130	RPD 4.72 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	23.9	0	20	119	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	23.6	0	20	118	74 - 135	RPD 1.02 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	23.7	0	20	118	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	22.9	0	20	115	82 - 126	RPD 3.26 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	31.2	5.60	20	128*	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	30.5	5.60	20	124	78 - 124	RPD 2.29 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	49.1	24.20	20	125	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	48.6	24.20	20	122	63 - 128	RPD 0.93 (Max-40)	
1,1-Dichloropropene	563-58-6	MS	23.9	0	20	119	76 - 126		
1,1-Dichloropropene	563-58-6	MSD	23.3	0	20	117	76 - 126	RPD 2.44 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	21.8	0	20	109	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	21.5	0	20	107	61 - 126	RPD 1.71 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	22.1	0	20	110	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	21.8	0	20	109	75 - 132	RPD 1.42 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	23.5	0	20	117	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	22.8	0	20	114	67 - 123	RPD 2.72 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	19.3	0	20	96.4	59 - 133		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,2-Dibromo-3-chloropropane	96-12-8	MSD	17.6	0	20	88	59 - 133	RPD 9.16 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	22.4	0	20	112	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	22.5	0	20	112	80 - 124	RPD 0.18 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	23.8	0	20	119*	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	23.5	0	20	117	82 - 118	RPD 1.43 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	22.5	0	20	112	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	21.5	0	20	108	70 - 133	RPD 4.44 (Max-40)	
1,2-Dichloropropane	78-87-5	MS	24	0	20	120	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	23.3	0	20	116	81 - 127	RPD 2.98 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	24.1	0	20	121*	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	23.8	0	20	119*	81 - 118	RPD 1.15 (Max-40)	
1,3-Dichloropropane	142-28-9	MS	23.4	0	20	117	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	22.6	0	20	113	82 - 126	RPD 3.23 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	23.5	0	20	117*	81 - 116		
1,4-Dichlorobenzene	106-46-7	MSD	23.4	0	20	117*	81 - 116	RPD 0.45 (Max-40)	
2,2-Dichloropropane	594-20-7	MS	21.6	0	20	108	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	20.5	0	20	103	64 - 129	RPD 4.93 (Max-40)	
2-Butanone	78-93-3	MS	119	0	100	119	50 - 152		
2-Butanone	78-93-3	MSD	117	0	100	117	50 - 152	RPD 1.58 (Max-40)	
2-Hexanone	591-78-6	MS	121	0	100	121	65 - 154		
2-Hexanone	591-78-6	MSD	117	0	100	117	65 - 154	RPD 3.69 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	122	0	100	122	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	119	0	100	119	71 - 146	RPD 2.89 (Max-40)	
Acetone	67-64-1	MS	111	0	100	111	40 - 151		
Acetone	67-64-1	MSD	107	0	100	107	40 - 151	RPD 3.60 (Max-40)	
Benzene	71-43-2	MS	24.7	0	20	124	80 - 124		
Benzene	71-43-2	MSD	23.9	0	20	120	80 - 124	RPD 3.18 (Max-40)	
Bromobenzene	108-86-1	MS	23.5	0	20	117	81 - 119		
Bromobenzene	108-86-1	MSD	22.9	0	20	115	81 - 119	RPD 2.43 (Max-40)	
Bromochloromethane	74-97-5	MS	21.7	0	20	109	73 - 117		
Bromochloromethane	74-97-5	MSD	21.6	0	20	108	73 - 117	RPD 0.82 (Max-40)	
Bromodichloromethane	75-27-4	MS	23.2	0	20	116	79 - 126		
Bromodichloromethane	75-27-4	MSD	22.4	0	20	112	79 - 126	RPD 3.39 (Max-40)	
Bromoform	75-25-2	MS	21.6	0	20	108	70 - 123		
Bromoform	75-25-2	MSD	21.5	0	20	108	70 - 123	RPD 0.33 (Max-40)	
Bromomethane	74-83-9	MS	18.2	0	20	90.8	45 - 148		
Bromomethane	74-83-9	MSD	18.5	0	20	92.7	45 - 148	RPD 2.07 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	23.8	0	20	119	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	23.3	0	20	116	62 - 132	RPD 2.43 (Max-40)	
Chlorobenzene	108-90-7	MS	24.6	0	20	123*	85 - 117		
Chlorobenzene	108-90-7	MSD	23.5	0	20	117	85 - 117	RPD 4.88 (Max-40)	
Chlorodibromomethane	124-48-1	MS	22.6	0	20	113	77 - 122		
Chlorodibromomethane	124-48-1	MSD	21.4	0	20	107	77 - 122	RPD 5.44 (Max-40)	
Chloroethane	75-00-3	MS	20.7	0	20	104	51 - 142		
Chloroethane	75-00-3	MSD	20.8	0	20	104	51 - 142	RPD 0.49 (Max-40)	
Chloroform	67-66-3	MS	22.9	0	20	114	78 - 122		
Chloroform	67-66-3	MSD	22.2	0	20	111	78 - 122	RPD 3.06 (Max-40)	
Chloromethane	74-87-3	MS	22.3	0	20	112	38 - 156		
Chloromethane	74-87-3	MSD	21.4	0	20	107	38 - 156	RPD 4.08 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
cis-1,2-Dichloroethene	156-59-2	MS	24	0	20	120	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	23.1	0	20	116	78 - 125	RPD 3.95 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	21.6	0	20	108	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	20.7	0	20	103	81 - 121	RPD 4.25 (Max-40)	
Dibromomethane	74-95-3	MS	22.8	0	20	114	81 - 125		
Dibromomethane	74-95-3	MSD	22	0	20	110	81 - 125	RPD 3.52 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	25.3	0	20	127	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	25.1	0	20	126	17 - 166	RPD 0.83 (Max-40)	
Diisopropyl ether	108-20-3	MS	23.5	0	20	118	74 - 131		
Diisopropyl ether	108-20-3	MSD	22.7	0	20	113	74 - 131	RPD 3.80 (Max-40)	
Ethylbenzene	100-41-4	MS	24.9	0	20	124	80 - 124		
Ethylbenzene	100-41-4	MSD	24.5	0	20	122	80 - 124	RPD 1.55 (Max-40)	
Hexachlorobutadiene	87-68-3	MS	21.8	0	20	109	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	21	0	20	105	55 - 128	RPD 3.71 (Max-40)	
Methyl t-Butyl Ether	1634-04-4	MS	22.9	1.20	20	108	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	22.2	1.20	20	105	69 - 115	RPD 2.88 (Max-40)	
Methylene Chloride	75-09-2	MS	22.3	0	20	111	76 - 121		
Methylene Chloride	75-09-2	MSD	21.4	0	20	107	76 - 121	RPD 3.90 (Max-40)	
mp-Xylene	108383/106423	MS	51	0	40	128*	79 - 125		
mp-Xylene	108383/106423	MSD	48.1	0	40	120	79 - 125	RPD 6 (Max-40)	
Naphthalene	91-20-3	MS	22.7	0	20	113	56 - 134		
Naphthalene	91-20-3	MSD	22.5	0	20	112	56 - 134	RPD 0.92 (Max-40)	
o-Chlorotoluene	95-49-8	MS	24.5	0	20	123	78 - 126		
o-Chlorotoluene	95-49-8	MSD	24.5	0	20	122	78 - 126	RPD 0.09 (Max-40)	
o-Xylene	95-47-6	MS	25.2	0	20	126*	79 - 124		
o-Xylene	95-47-6	MSD	24.2	0	20	121	79 - 124	RPD 4.31 (Max-40)	
p-Chlorotoluene	106-43-4	MS	24.3	0	20	121	78 - 125		
p-Chlorotoluene	106-43-4	MSD	24.1	0	20	120	78 - 125	RPD 0.82 (Max-40)	
p-Isopropyltoluene	99-87-6	MS	25.1	0	20	125*	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	24	0	20	120	72 - 123	RPD 4.47 (Max-40)	
Styrene	100-42-5	MS	24.1	0	20	120	79 - 123		
Styrene	100-42-5	MSD	23.6	0	20	118	79 - 123	RPD 2.13 (Max-40)	
Tetrachloroethene	127-18-4	MS	23.2	0	20	116	72 - 124		
Tetrachloroethene	127-18-4	MSD	21.6	0	20	108	72 - 124	RPD 7.23 (Max-40)	
Toluene	108-88-3	MS	25	0	20	125	80 - 125		
Toluene	108-88-3	MSD	23.7	0	20	119	80 - 125	RPD 5.16 (Max-40)	
Total Xylenes	1330-20-7	MS	76.3	0	60	127*	79 - 125		
Total Xylenes	1330-20-7	MSD	72.2	0	60	120	79 - 125	RPD 5.43 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	25	0	20	125*	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	24.7	0	20	123*	71 - 122	RPD 1.41 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	22.4	0	20	112	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	21.4	0	20	107	78 - 126	RPD 4.20 (Max-40)	
Trichloroethene	79-01-6	MS	22.6	0	20	113	77 - 124		
Trichloroethene	79-01-6	MSD	21.5	0	20	108	77 - 124	RPD 4.95 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	21.9	0	20	109	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22.1	0	20	110	38 - 123	RPD 1.03 (Max-40)	
Vinyl Acetate	108-05-4	MS	14.4	0	20	71.9	58 - 136		
Vinyl Acetate	108-05-4	MSD	15	0	20	74.9	58 - 136	RPD 4.20 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Vinyl Chloride	75-01-4	MS	23.2	0	20	116	27 - 138		
Vinyl Chloride	75-01-4	MSD	23.2	0	20	116	27 - 138	RPD 0.11 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	29.5	30	98.3	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	29.2	30	97.3	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	30.4	30	101	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	31	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.2	30	101	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30.9	30	103	76 - 127	
Toluene-d8	2037-26-5	MSD	30.9	30	103	76 - 127	

Method Blank 4004155 (MB) Created on 06/25/2025 13:19 For QC Batch 1448163

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	30.8	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.4	30	105	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	31.6	30	105	78 - 116	
Toluene-d8	2037-26-5	BLK	32.9	30	110	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Lab Control Standard 4004156 (LCS) Created on 06/25/2025 13:19 For QC Batch 1448163

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	19.9		20	99.6	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	19.7		20	98.7	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.1		20	101	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.3		20	102	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21.1		20	105	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	22.1		20	111	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	19.5		20	97.4	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.5		20	97.6	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	19.1		20	95.6	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.9		20	105	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.6		20	83.2	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.9		20	99.7	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	20.8		20	104	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	18.4		20	92.1	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.3		20	102	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	21		20	105	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	20		20	100	82 - 126		
1,4-Dichlorobenzene	106-46-7	LCS	20.9		20	105	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	21.1		20	105	64 - 129		
2-Butanone	78-93-3	LCS	113		100	113	50 - 152		
2-Hexanone	591-78-6	LCS	104		100	104	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	108		100	108	71 - 146		
Acetone	67-64-1	LCS	86.6		100	86.6	40 - 151		
Benzene	71-43-2	LCS	20.7		20	104	80 - 124		
Bromobenzene	108-86-1	LCS	20.5		20	102	81 - 119		
Bromochloromethane	74-97-5	LCS	18.8		20	94	73 - 117		
Bromodichloromethane	75-27-4	LCS	19.4		20	97.1	79 - 126		
Bromoform	75-25-2	LCS	18.3		20	91.7	70 - 123		
Bromomethane	74-83-9	LCS	16.4		20	82.2	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	18.9		20	94.3	62 - 132		
Chlorobenzene	108-90-7	LCS	20.8		20	104	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18.9		20	94.6	77 - 122		
Chloroethane	75-00-3	LCS	17.8		20	89.2	51 - 142		
Chloroform	67-66-3	LCS	19.4		20	97	78 - 122		
Chloromethane	74-87-3	LCS	18.6		20	93.1	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	19.9		20	99.6	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	19.6		20	98	81 - 121		
Dibromomethane	74-95-3	LCS	19.6		20	97.8	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	21.2		20	106	17 - 166		
Diisopropyl ether	108-20-3	LCS	20		20	100	74 - 131		
Ethylbenzene	100-41-4	LCS	21.2		20	106	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	21.1		20	106	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	18.6		20	92.8	69 - 115		
Methylene Chloride	75-09-2	LCS	19.4		20	97.1	76 - 121		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
mp-Xylene	108383/106423	LCS	43.2		40	108	79 - 125		
Naphthalene	91-20-3	LCS	20		20	100	56 - 134		
o-Chlorotoluene	95-49-8	LCS	21.2		20	106	78 - 126		
o-Xylene	95-47-6	LCS	21.5		20	107	79 - 124		
p-Chlorotoluene	106-43-4	LCS	21.3		20	107	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	21.9		20	110	72 - 123		
Styrene	100-42-5	LCS	21.1		20	105	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.9		20	99.6	72 - 124		
Toluene	108-88-3	LCS	21.1		20	106	80 - 125		
Total Xylenes	1330-20-7	LCS	64.7		60	108	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.2		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.7		20	98.6	78 - 126		
Trichloroethene	79-01-6	LCS	18.7		20	93.5	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	18.7		20	93.3	38 - 123		
Vinyl Acetate	108-05-4	LCS	19		20	94.9	58 - 136		
Vinyl Chloride	75-01-4	LCS	20.1		20	100	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.5	30	94.9	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.6	30	102	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.6	30	102	78 - 116	
Toluene-d8	2037-26-5	LCS	31.6	30	105	76 - 127	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3420848001	MW-35D	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		N/A	N/A	N/A		SW846 8260D	1447929
3420848002	MW-43	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		N/A	N/A	N/A		SW846 8260D	1447929
3420848003	MW-39	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		N/A	N/A	N/A		SW846 8260D	1447929
3420848004	MW-38R	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848005	MW-42	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		N/A	N/A	N/A		SW846 8260D	1447929
3420848006	MW-44	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1447495
		N/A	N/A	N/A		SW846 8260D	1447929
3420848007	Trip Blank 1	N/A	N/A	N/A		SW846 8260D	1447929
3420848008	MW-46D	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848009	MW-100	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848010	MW-21D	SW846 3510C	1445053	06/19/2025 10:00	BMP	SW846 8270E SIM	1445475
		N/A	N/A	N/A		SW846 8260D	1447929
3420848011	MW-01D	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848012	MW-22D	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848013	MW-04R	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1447929
3420848014	MW-20	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448024
		SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448345
		N/A	N/A	N/A		SW846 8260D	1448163
3420848015	MW-09	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448024
		N/A	N/A	N/A		SW846 8260D	1448163
3420848016	Trip Blank 2	N/A	N/A	N/A		SW846 8260D	1448163
3420848017	MW-23D	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448024
		SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448345
		N/A	N/A	N/A		SW846 8260D	1448163
3420848018	MW-16	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448024
		SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448345
		N/A	N/A	N/A		SW846 8260D	1448163
3420848019	MW-16D	SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448024
		SW846 3510C	1445456	06/23/2025 10:55	BMP	SW846 8270E SIM	1448345
		N/A	N/A	N/A		SW846 8260D	1448163

3420848
Logged By: SLS
PM: SJB

1 of 2

ALS
301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: WSP USA

Address: Herndon VA

Contact:

Phone#:

Project Name/#:

Bill To:

Purchase Order #:

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Container Type: 6 | A
Container Size: 40ml | 250ml
Preservative: HCL | vup DB 6/16/25

Orthophosphate Filtered? Yes No
Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED: VOCS 8260 | 1,4 dioxane 8270

Enter Number of Containers Per Sample or Field Results Below.

	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCS 8260	1,4 dioxane 8270
1	MW-35 D	6/14/25	0835		G	GW	3x	2x
2	MW-43		1015				3x	2x
3	MW-39		1035				3x	2x
4	MW-38R		1110				3x	2x
5	MW-42		1130				3x	2x
6	MW-44		1200				3x	2x
7	MW-44 MS/MSD		1215				6x	4x
8	Trip blank 1						2x	
9	MW-46 D		1335				3x	2x
10	MW-100		1300				3x	2x

Temp°C	Therm ID	On Ice
3		Y N

Sample(s) for Radiation testing? Y N

Reportable SDWA Sample(s)? Y N

SDWA State of Origin

PWSID#

PWS Contact

PWS Phone#

New Source? Y N

New Source Contact:

SDWA Sample Type Key:
D=Distribution E=Entry Point R=Raw P=Plant
C=Check S=Special A=Annual Startup

Comments

Circle Sample Collector: ALS Tech / Client
Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
6/16/25	1600	1	[signature]	2	[signature] Blake ALS
6-16-25	2000	3	Maggie Blake ALS	4	[signature]
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4
[ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full
[ ] HSCA [ ] Landfill [ ] NJ GW [ ] ______

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

EDDS: Format Type

Sample Disposal: Lab [ ] Special [ ]

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL ____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

Rev. 11/25/2024

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3420848 2 of 2 of

ALS Quote #:

Client Name: WSP USA

Address: 13530 Dulles Technology Dr Ste 300 Heindon, VA

Contact: Eric Johnson

Phone#:

Project Name/#: Kop Flex ONSITE

Bill To:

Purchase Order #: P13066224001

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.

Date Required: Approved?

Email? [ ]

Container Type	G / A
Container Size	40ml / 250ml
Preservative	HCl / VNP

PO 6/16/25

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED: VOCs 8260; 1,4-dioxane 8270

Enter Number of Containers Per Sample or Field Results Below.

#	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	1,4-dioxane 8270
1	MW-21D		1410		G	GW	3x	2x
2	MW-01D		1435				3x	2x
3	MW-22D		1500				3x	2x
4	MW-04R		1515				3x	2x
5	MW-20		1535				3x	2x
6	MW-09		1555				3x	2x
7	Trip blank 2						2x	
8	MW-23D		1615				3x	2x
9	MW-16		1635				3x	2x
10	MW-16D		1700				3x	2x

- MW-20 - 1550 on Sample DB 6/16/25

Temp°C	Therm ID	On Ice
3		Y N

Sample(s) for Radiation testing? Y N

Reportable SDWA Sample(s)? Y N

SDWA State of Origin

PWSID#

PWS Contact

PWS Phone#

New Source? Y N

New Source Contact:

SDWA Sample Type Key:
D=Distribution E=Entry Point R=Raw P=Plant
C=Check S=Special A=Annual Startup

Comments

Circle Sample Collector: ALS Tech / Client

Name: ID:

Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
6/16/25	1600	1	[signature] WSP	2	Maggie Black ALS
6-16-25	2000	3	Maggie Black ALS	4	
		5		6	
		7		8	
		9		10	

Data Deliverables: [ ] Standard Lvl 1 [ ] Standard Lvl 2 [ ] Standard Lvl 3 [ ] Standard Lvl 4 [ ] CLP-like [ ] DOD [ ] NJ RED [ ] NJ Full [ ] HSCA [ ] Landfill [ ] NJ GW [ ] ______

EDDs: [ ] Excel Summary [ ] Equis [ ] Custom

EDDS: Format Type

Sample Disposal: Lab [ ] Special [ ]

State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] WV [ ] FL ____ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Visit link for detailed Terms & Conditions: https://www.alsglobal.com/ALSGroupUSACorpTC

Rev. 11/25/2024

Middletown Sample Condition Form

Client WSP

Workorder 34120848

Temp °C 3° Therm ID 649 Ice? Y N N/A

Initials & Date DB 6/18/25

Fedex UPS Client ALS Other

Tracking #

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*	~~✓~~	X		PM W61725
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection		✓		Pg 2-UC
•Type(s) of preservation		✓		UC DB 61625 W61725
•Number of containers	✓			
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

1 *If No, provide comment*

Rad Screen (uCi) ________

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing informatio

Review Comments:

Main Site: 301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | www.alsglobal.com
Associated Site: 20 Riverside Drive | Spring City, PA 19475 | Phone: 610-948-4903 |

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343, NJ PA101

Analytical Results Report For **WSP USA Inc.**

Project	Former KOP-Flex Facility Onsit
Workorder	3420861
Report ID	443417 on 7/29/2025 (Revised report. See Project Notations Section.)

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Jun 16, 2025.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Susan Scherer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

Recipient(s):
- Eric Johnson - WSP USA INC
- Erik Reinert - WSP USA Inc
- Jessica Mendez - WSP USA Inc.
- Stevie Henrick - WSP USA Inc.

Susan Scherer

Susan Scherer (ALS Digital Signature)
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3420861001	RW-1S	Ground Water	06/16/2025 12:25	06/16/2025 20:00	CBC	Collected By Client
3420861002	RW-2S	Ground Water	06/16/2025 12:30	06/16/2025 20:00	CBC	Collected By Client
3420861003	RW-3S	Ground Water	06/16/2025 12:45	06/16/2025 20:00	CBC	Collected By Client
3420861004	RW-1D	Ground Water	06/16/2025 13:00	06/16/2025 20:00	CBC	Collected By Client
3420861005	RW-2D	Ground Water	06/16/2025 13:10	06/16/2025 20:00	CBC	Collected By Client
3420861006	Trip Blank 5	Ground Water	06/16/2025 00:00	06/16/2025 20:00	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136, including but not limited to the following EPA Method reference revisions:
  EPA 300.1 Rev. 1.0-1997
  EPA 300.0 Rev. 2.1-1993
  EPA 353.2 Rev. 2.0-1993
  EPA 410.4 Rev. 1.0-1993
  EPA 420.4 Rev. 1.0-1993
  EPA 365.1 Rev. 2.0-1993
  EPA 200.7 Rev. 4.4-1994
  EPA 200.8 Rev. 5.4-1994
  EPA 245.1 Rev. 3.0-1994
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

P1 This certificate of analysis was modified to include the 1,4-Dioxane result on lab ID 3420861005 based on the email from Erik Reinert on 07/24/25. SJS 07/29/25

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.	
1	The QC sample type LCS for method SW846 8260D was outside the control limits for the analyte Hexachlorobutadiene. The % Recovery was reported as 129 and the control limits were 55 to 128.
4	The surrogate 2-Methylnapthalene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 0 and the control limits were 29 to 112. This result was reported at a dilution of 100.
5	The surrogate Fluoranthene-d10 for method SW846 8270E SIM was outside of control limits. The % Recovery was reported as 0 and the control limits were 45 to 130. This result was reported at a dilution of 100.

Detected Results Summary

Client Sample ID	RW-1S	Collected	06/16/2025 12:25
Lab Sample ID	3420861001	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	292	ug/L	50.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	71.2	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethane	264	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethene	1110	ug/L	20.0	SW846 8260D	#
Chloroethane	28.3	ug/L	5.0	SW846 8260D	#
Trichloroethene	7.9	ug/L	5.0	SW846 8260D	#
Vinyl Chloride	9.2	ug/L	5.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	RW-2S	Collected	06/16/2025 12:30
Lab Sample ID	3420861002	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	632	ug/L	100	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	374	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethane	128	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethene	869	ug/L	5.0	SW846 8260D	#
Trichloroethene	8.6	ug/L	5.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	RW-3S	Collected	06/16/2025 12:45
Lab Sample ID	3420861003	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	3.1	ug/L	1.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	2.6	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	1.9	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	3.4	ug/L	1.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	RW-1D	Collected	06/16/2025 13:00
Lab Sample ID	3420861004	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	39.7	ug/L	10.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	11.2	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethane	62.1	ug/L	5.0	SW846 8260D	#
1,1-Dichloroethene	284	ug/L	5.0	SW846 8260D	#
Chloroethane	9.7	ug/L	5.0	SW846 8260D	#

Detected Results Summary

Client Sample ID	RW-2D	Collected	06/16/2025 13:10
Lab Sample ID	3420861005	Lab Receipt	06/16/2025 20:00

Compound	Result	Units	RDL	Method	Flag
SEMIVOLATILE SIM					
1,4-Dioxane	50.9	ug/L	10.0	SW846 8270E SIM	#
VOLATILE ORGANICS					
1,1,1-Trichloroethane	2.5	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethane	26.3	ug/L	1.0	SW846 8260D	#
1,1-Dichloroethene	109	ug/L	1.0	SW846 8260D	#

Results

Client Sample ID	RW-1S	Collected	06/16/2025 12:25
Lab Sample ID	3420861001	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	292	P1	ug/L	50.0	SW846 8270E SIM	50	06/26/2025 12:17	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	63.6%	29 – 112	06/26/2025 12:17	
2-Methylnapthalene-d10	7297-45-2	69.9%	29 – 112	06/25/2025 21:46	
Fluoranthene-d10	93951-69-0	73%	45 – 130	06/26/2025 12:17	
Fluoranthene-d10	93951-69-0	77.5%	45 – 130	06/25/2025 21:46	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,1,1-Trichloroethane	71.2	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,1,2,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,1,2-Trichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,1-Dichloroethane	264	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,1-Dichloroethene	1110	P1	ug/L	20.0	SW846 8260D	20	06/27/2025 02:29	PDK	B
1,1-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2,3-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2,3-Trichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2,4-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2-Dibromo-3-chloropropane	35.0 U	U,P1	ug/L	35.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2-Dibromoethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2-Dichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,3-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,3-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
1,4-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
2,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
2-Butanone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
2-Hexanone	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
4-Methyl-2-Pentanone(MIBK)	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Acetone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Benzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Bromobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Bromochloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Bromodichloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Bromoform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Bromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Carbon Tetrachloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Chlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Chlorodibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Chloroethane	28.3	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A

Results

Client Sample ID	RW-1S	Collected	06/16/2025 12:25
Lab Sample ID	3420861001	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Chloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
cis-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
cis-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Dibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Dichlorodifluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Diisopropyl ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Ethylbenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Hexachlorobutadiene	25.0 U	U,1,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Methyl t-Butyl Ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Methylene Chloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
mp-Xylene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Naphthalene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
o-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
o-Xylene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
p-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
p-Isopropyltoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Styrene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Tetrachloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Toluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Total Xylenes	15.0 U	U,P1	ug/L	15.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
trans-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
trans-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Trichloroethene	7.9	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Trichlorofluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Vinyl Acetate	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 05:42	PDK	A
Vinyl Chloride	9.2	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 05:42	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	97.1%	62 – 133	06/26/2025 05:42	
1,2-Dichloroethane-d4	17060-07-0	99.2%	62 – 133	06/27/2025 02:29	
4-Bromofluorobenzene	460-00-4	99.7%	79 – 114	06/26/2025 05:42	
4-Bromofluorobenzene	460-00-4	108%	79 – 114	06/27/2025 02:29	
Dibromofluoromethane	1868-53-7	96.4%	78 – 116	06/26/2025 05:42	
Dibromofluoromethane	1868-53-7	99.8%	78 – 116	06/27/2025 02:29	
Toluene-d8	2037-26-5	100%	76 – 127	06/26/2025 05:42	
Toluene-d8	2037-26-5	105%	76 – 127	06/27/2025 02:29	

Results

Client Sample ID	RW-2S	Collected	06/16/2025 12:30
Lab Sample ID	3420861002	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	632	P1	ug/L	100	SW846 8270E SIM	100	06/26/2025 12:47	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	0*%	29 – 112	06/26/2025 12:47	4
2-Methylnapthalene-d10	7297-45-2	64.9%	29 – 112	06/25/2025 22:15	
Fluoranthene-d10	93951-69-0	0*%	45 – 130	06/26/2025 12:47	5
Fluoranthene-d10	93951-69-0	71.9%	45 – 130	06/25/2025 22:15	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1,1-Trichloroethane	374	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1,2,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1,2-Trichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1-Dichloroethane	128	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1-Dichloroethene	869	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,1-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2,3-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2,3-Trichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2,4-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2-Dibromo-3-chloropropane	35.0 U	U,P1	ug/L	35.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2-Dibromoethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2-Dichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,3-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,3-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
1,4-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
2,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
2-Butanone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
2-Hexanone	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
4-Methyl-2-Pentanone(MIBK)	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Acetone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Benzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Bromobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Bromochloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Bromodichloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Bromoform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Bromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Carbon Tetrachloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Chlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Chlorodibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Chloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A

Results

Client Sample ID	RW-2S	Collected	06/16/2025 12:30
Lab Sample ID	3420861002	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Chloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
cis-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
cis-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Dibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Dichlorodifluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Diisopropyl ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Ethylbenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Hexachlorobutadiene	25.0 U	U,1,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Methyl t-Butyl Ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Methylene Chloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
mp-Xylene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Naphthalene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
o-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
o-Xylene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
p-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
p-Isopropyltoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Styrene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Tetrachloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Toluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Total Xylenes	15.0 U	U,P1	ug/L	15.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
trans-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
trans-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Trichloroethene	8.6	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Trichlorofluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Vinyl Acetate	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:02	PDK	A
Vinyl Chloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:02	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.8%	62 – 133	06/26/2025 06:02	
4-Bromofluorobenzene	460-00-4	101%	79 – 114	06/26/2025 06:02	
Dibromofluoromethane	1868-53-7	97.8%	78 – 116	06/26/2025 06:02	
Toluene-d8	2037-26-5	103%	76 – 127	06/26/2025 06:02	

Results

Client Sample ID	RW-3S	Collected	06/16/2025 12:45
Lab Sample ID	3420861003	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	3.1	P1	ug/L	1.0	SW846 8270E SIM	1	06/25/2025 22:43	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	62.9%	29 – 112	06/25/2025 22:43	
Fluoranthene-d10	93951-69-0	78.6%	45 – 130	06/25/2025 22:43	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1,1-Trichloroethane	2.6	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1-Dichloroethane	1.9	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1-Dichloroethene	3.4	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A

Results

Client Sample ID	RW-3S	Collected	06/16/2025 12:45
Lab Sample ID	3420861003	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Hexachlorobutadiene	5.0 U	U,1,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:02	PDK	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:02	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	06/26/2025 05:02	
4-Bromofluorobenzene	460-00-4	98.5%	79 – 114	06/26/2025 05:02	
Dibromofluoromethane	1868-53-7	97.2%	78 – 116	06/26/2025 05:02	
Toluene-d8	2037-26-5	102%	76 – 127	06/26/2025 05:02	

Results

Client Sample ID	RW-1D	Collected	06/16/2025 13:00
Lab Sample ID	3420861004	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	39.7	P1	ug/L	10.0	SW846 8270E SIM	10	06/26/2025 13:17	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	70.7%	29 – 112	06/26/2025 13:17	
2-Methylnapthalene-d10	7297-45-2	68.2%	29 – 112	06/25/2025 23:12	
Fluoranthene-d10	93951-69-0	89.1%	45 – 130	06/26/2025 13:17	
Fluoranthene-d10	93951-69-0	86.6%	45 – 130	06/25/2025 23:12	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1,1-Trichloroethane	11.2	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1,2,2-Tetrachloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1,2-Trichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1-Dichloroethane	62.1	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1-Dichloroethene	284	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,1-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2,3-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2,3-Trichloropropane	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2,4-Trichlorobenzene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2-Dibromo-3-chloropropane	35.0 U	U,P1	ug/L	35.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2-Dibromoethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2-Dichloroethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,3-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,3-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
1,4-Dichlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
2,2-Dichloropropane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
2-Butanone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
2-Hexanone	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
4-Methyl-2-Pentanone(MIBK)	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Acetone	50.0 U	U,P1	ug/L	50.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Benzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Bromobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Bromochloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Bromodichloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Bromoform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Bromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Carbon Tetrachloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Chlorobenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Chlorodibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Chloroethane	9.7	P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A

Results

Client Sample ID	RW-1D	Collected	06/16/2025 13:00
Lab Sample ID	3420861004	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Chloromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
cis-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
cis-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Dibromomethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Dichlorodifluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Diisopropyl ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Ethylbenzene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Hexachlorobutadiene	25.0 U	U,1,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Methyl t-Butyl Ether	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Methylene Chloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
mp-Xylene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Naphthalene	10.0 U	U,P1	ug/L	10.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
o-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
o-Xylene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
p-Chlorotoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
p-Isopropyltoluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Styrene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Tetrachloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Toluene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Total Xylenes	15.0 U	U,P1	ug/L	15.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
trans-1,2-Dichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
trans-1,3-Dichloropropene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Trichloroethene	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Trichlorofluoromethane	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Vinyl Acetate	25.0 U	U,P1	ug/L	25.0	SW846 8260D	5	06/26/2025 06:22	PDK	A
Vinyl Chloride	5.0 U	U,P1	ug/L	5.0	SW846 8260D	5	06/26/2025 06:22	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	101%	62 – 133	06/26/2025 06:22	
4-Bromofluorobenzene	460-00-4	103%	79 – 114	06/26/2025 06:22	
Dibromofluoromethane	1868-53-7	100%	78 – 116	06/26/2025 06:22	
Toluene-d8	2037-26-5	105%	76 – 127	06/26/2025 06:22	

Results

Client Sample ID	RW-2D	Collected	06/16/2025 13:10
Lab Sample ID	3420861005	Lab Receipt	06/16/2025 20:00

SEMIVOLATILE SIM

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,4-Dioxane	50.9	P1	ug/L	10.0	SW846 8270E SIM	10	06/26/2025 13:47	S7M	D

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
2-Methylnapthalene-d10	7297-45-2	86.3%	29 – 112	06/26/2025 13:47	
2-Methylnapthalene-d10	7297-45-2	78.9%	29 – 112	06/25/2025 23:40	
Fluoranthene-d10	93951-69-0	105%	45 – 130	06/26/2025 13:47	
Fluoranthene-d10	93951-69-0	100%	45 – 130	06/25/2025 23:40	

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1,1-Trichloroethane	2.5	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1-Dichloroethane	26.3	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1-Dichloroethene	109	P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A

Results

Client Sample ID	RW-2D	Collected	06/16/2025 13:10
Lab Sample ID	3420861005	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Hexachlorobutadiene	5.0 U	U,1,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 05:22	PDK	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 05:22	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.6%	62 – 133	06/26/2025 05:22	
4-Bromofluorobenzene	460-00-4	102%	79 – 114	06/26/2025 05:22	
Dibromofluoromethane	1868-53-7	95.9%	78 – 116	06/26/2025 05:22	
Toluene-d8	2037-26-5	102%	76 – 127	06/26/2025 05:22	

Results

Client Sample ID	Trip Blank 5	Collected	06/16/2025 00:00
Lab Sample ID	3420861006	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
1,1,1,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1,1-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1,2,2-Tetrachloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1,2-Trichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,1-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2,3-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2,3-Trichloropropane	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2,4-Trichlorobenzene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2-Dibromo-3-chloropropane	7.0 U	U,P1	ug/L	7.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2-Dibromoethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2-Dichloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,3-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,3-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
1,4-Dichlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
2,2-Dichloropropane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
2-Butanone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
2-Hexanone	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
4-Methyl-2-Pentanone(MIBK)	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Acetone	10.0 U	U,P1	ug/L	10.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Benzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Bromobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Bromochloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Bromodichloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Bromoform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Bromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Carbon Tetrachloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Chlorobenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Chlorodibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Chloroethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Chloroform	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Chloromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
cis-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
cis-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Dibromomethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Dichlorodifluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Diisopropyl ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Ethylbenzene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Hexachlorobutadiene	5.0 U	U,1,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Methyl t-Butyl Ether	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Methylene Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
mp-Xylene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Naphthalene	2.0 U	U,P1	ug/L	2.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
o-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A

Results

Client Sample ID	Trip Blank 5	Collected	06/16/2025 00:00
Lab Sample ID	3420861006	Lab Receipt	06/16/2025 20:00

VOLATILE ORGANICS (cont.)

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
o-Xylene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
p-Chlorotoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
p-Isopropyltoluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Styrene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Tetrachloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Toluene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Total Xylenes	3.0 U	U,P1	ug/L	3.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
trans-1,2-Dichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
trans-1,3-Dichloropropene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Trichloroethene	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Trichlorofluoromethane	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Vinyl Acetate	5.0 U	U,P1	ug/L	5.0	SW846 8260D	1	06/26/2025 01:03	PDK	A
Vinyl Chloride	1.0 U	U,P1	ug/L	1.0	SW846 8260D	1	06/26/2025 01:03	PDK	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	99.4%	62 – 133	06/26/2025 01:03	
4-Bromofluorobenzene	460-00-4	99.9%	79 – 114	06/26/2025 01:03	
Dibromofluoromethane	1868-53-7	95.8%	78 – 116	06/26/2025 01:03	
Toluene-d8	2037-26-5	103%	76 – 127	06/26/2025 01:03	

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3420861001	RW-1S	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
		SW846 8260D	N/A	
3420861002	RW-2S	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420861003	RW-3S	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420861004	RW-1D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420861005	RW-2D	SW846 8270E SIM	SW846 3510C	
		SW846 8260D	N/A	
3420861006	Trip Blank 5	SW846 8260D	N/A	

QUALITY CONTROL SAMPLES

SEMIVOLATILE SIM

QC Batch

QC Batch	1445453	Prep Method	SW846 3510C
Date	06/23/2025 08:05	Analysis Method	SW846 8270E SIM
Tech.	EJH		

Associated Samples

3420861001 3420861002 3420861003 3420861004
3420861005

Matrix Spike 4002380 (MS) 3420851005 (non-Project Sample) For QC Batch 1445453

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 4002381 (MSD) 3420851005 (non-Project Sample) For QC Batch 1445453

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	MS	9.1	6.80	1	NC	22 - 75		
1,4-Dioxane	123-91-1	MSD	8.6	6.80	1	NC	22 - 75	RPD 5.56 (Max-30)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	MS	0.75	1	74.7	29 - 112	
2-Methylnapthalene-d10	7297-45-2	MSD	0.72	1	71.8	29 - 112	
Fluoranthene-d10	93951-69-0	MS	0.94	1	94.3	45 - 130	
Fluoranthene-d10	93951-69-0	MSD	0.75	1	74.8	45 - 130	

Method Blank 4002378 (MB) Created on 06/20/2025 16:52 For QC Batch 1445453

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,4-Dioxane	123-91-1	BLK	1.0 U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	BLK	0.52	1	52.1	29 - 112	
Fluoranthene-d10	93951-69-0	BLK	0.72	1	72.3	45 - 130	

Lab Control Standard 4002379 (LCS) Created on 06/20/2025 16:52 For QC Batch 1445453

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dioxane	123-91-1	LCS	0.49		1	48.9	22 - 75		U

QUALITY CONTROL SAMPLES

SEMIVOLATILE SIM (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
2-Methylnapthalene-d10	7297-45-2	LCS	0.58	1	58.3	29 - 112	
Fluoranthene-d10	93951-69-0	LCS	0.68	1	68.4	45 - 130	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS

QC Batch

QC Batch 1448259 Prep Method N/A
Date N/A Analysis Method SW846 8260D
Tech.

Associated Samples

3420861001 3420861002 3420861003 3420861004
3420861005 3420861006

Matrix Spike 4004334 (MS) 3420803021 (non-Project Sample) For QC Batch 1448259

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 4004335 (MSD) 3420803021 (non-Project Sample) For QC Batch 1448259

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	1060	0	1000	106	78 - 121		
1,1,1,2-Tetrachloroethane	630-20-6	MSD	1110	0	1000	111	78 - 121	RPD 4.68 (Max-40)	
1,1,1-Trichloroethane	71-55-6	MS	1180	0	1000	118	66 - 130		
1,1,1-Trichloroethane	71-55-6	MSD	1210	0	1000	121	66 - 130	RPD 2.54 (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	MS	1060	0	1000	106	74 - 135		
1,1,2,2-Tetrachloroethane	79-34-5	MSD	1150	0	1000	115	74 - 135	RPD 8.58 (Max-40)	
1,1,2-Trichloroethane	79-00-5	MS	1050	0	1000	105	82 - 126		
1,1,2-Trichloroethane	79-00-5	MSD	1090	0	1000	109	82 - 126	RPD 3.90 (Max-40)	
1,1-Dichloroethane	75-34-3	MS	1150	0	1000	115	78 - 124		
1,1-Dichloroethane	75-34-3	MSD	1150	0	1000	115	78 - 124	RPD 0.63 (Max-40)	
1,1-Dichloroethene	75-35-4	MS	1220	0	1000	122	63 - 128		
1,1-Dichloroethene	75-35-4	MSD	1230	0	1000	123	63 - 128	RPD 1.03 (Max-40)	
1,1-Dichloropropene	563-58-6	MS	1130	0	1000	113	76 - 126		
1,1-Dichloropropene	563-58-6	MSD	1150	0	1000	115	76 - 126	RPD 2.23 (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	MS	961	0	1000	96.1	61 - 126		
1,2,3-Trichlorobenzene	87-61-6	MSD	1080	0	1000	108	61 - 126	RPD 11.30 (Max-40)	
1,2,3-Trichloropropane	96-18-4	MS	986	0	1000	98.6	75 - 132		
1,2,3-Trichloropropane	96-18-4	MSD	1070	0	1000	107	75 - 132	RPD 8.36 (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	MS	1110	0	1000	111	67 - 123		
1,2,4-Trichlorobenzene	120-82-1	MSD	1250	0	1000	125*	67 - 123	RPD 11.30 (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	870	0	1000	87	59 - 133		
1,2-Dibromo-3-chloropropane	96-12-8	MSD	974	0	1000	97.4	59 - 133	RPD 11.30 (Max-40)	
1,2-Dibromoethane	106-93-4	MS	1040	0	1000	104	80 - 124		
1,2-Dibromoethane	106-93-4	MSD	1080	0	1000	108	80 - 124	RPD 3.67 (Max-40)	
1,2-Dichlorobenzene	95-50-1	MS	1120	98.50	1000	102	82 - 118		
1,2-Dichlorobenzene	95-50-1	MSD	1230	98.50	1000	113	82 - 118	RPD 9.53 (Max-40)	
1,2-Dichloroethane	107-06-2	MS	1040	0	1000	104	70 - 133		
1,2-Dichloroethane	107-06-2	MSD	1070	0	1000	107	70 - 133	RPD 2.46 (Max-40)	
1,2-Dichloropropane	78-87-5	MS	1120	0	1000	112	81 - 127		
1,2-Dichloropropane	78-87-5	MSD	1140	0	1000	114	81 - 127	RPD 1.56 (Max-40)	
1,3-Dichlorobenzene	541-73-1	MS	1140	60.70	1000	107	81 - 118		
1,3-Dichlorobenzene	541-73-1	MSD	1250	60.70	1000	119*	81 - 118	RPD 9.56 (Max-40)	
1,3-Dichloropropane	142-28-9	MS	1030	0	1000	103	82 - 126		
1,3-Dichloropropane	142-28-9	MSD	1070	0	1000	107	82 - 126	RPD 3.48 (Max-40)	
1,4-Dichlorobenzene	106-46-7	MS	1400	374	1000	102	81 - 116		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	MSD	1540	374	1000	117*	81 - 116	RPD 9.70 (Max-40)	
2,2-Dichloropropane	594-20-7	MS	1000	0	1000	100	64 - 129		
2,2-Dichloropropane	594-20-7	MSD	1020	0	1000	102	64 - 129	RPD 1.46 (Max-40)	
2-Butanone	78-93-3	MS	5290	0	5000	106	50 - 152		
2-Butanone	78-93-3	MSD	5390	0	5000	108	50 - 152	RPD 1.81 (Max-40)	
2-Hexanone	591-78-6	MS	4320	0	5000	86.4	65 - 154		
2-Hexanone	591-78-6	MSD	4480	0	5000	89.7	65 - 154	RPD 3.69 (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	4400	0	5000	88	71 - 146		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	4530	0	5000	90.5	71 - 146	RPD 2.83 (Max-40)	
Acetone	67-64-1	MS	4910	0	5000	98.2	40 - 151		
Acetone	67-64-1	MSD	4930	0	5000	98.7	40 - 151	RPD 0.45 (Max-40)	
Benzene	71-43-2	MS	1100	0	1000	110	80 - 124		
Benzene	71-43-2	MSD	1120	0	1000	112	80 - 124	RPD 1.76 (Max-40)	
Bromobenzene	108-86-1	MS	1070	0	1000	107	81 - 119		
Bromobenzene	108-86-1	MSD	1160	0	1000	116	81 - 119	RPD 8.59 (Max-40)	
Bromochloromethane	74-97-5	MS	1130	0	1000	113	73 - 117		
Bromochloromethane	74-97-5	MSD	1150	0	1000	115	73 - 117	RPD 1.60 (Max-40)	
Bromodichloromethane	75-27-4	MS	950	0	1000	95	79 - 126		
Bromodichloromethane	75-27-4	MSD	980	0	1000	98	79 - 126	RPD 3.13 (Max-40)	
Bromoform	75-25-2	MS	884	0	1000	88.4	70 - 123		
Bromoform	75-25-2	MSD	983	0	1000	98.3	70 - 123	RPD 10.70 (Max-40)	
Bromomethane	74-83-9	MS	1230	0	1000	123	45 - 148		
Bromomethane	74-83-9	MSD	1180	0	1000	118	45 - 148	RPD 3.76 (Max-40)	
Carbon Tetrachloride	56-23-5	MS	1160	0	1000	116	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	1180	0	1000	118	62 - 132	RPD 2.34 (Max-40)	
Chlorobenzene	108-90-7	MS	10700	9670	1000	NC	85 - 117		
Chlorobenzene	108-90-7	MSD	10700	9670	1000	NC	85 - 117	RPD 0.75 (Max-40)	
Chlorodibromomethane	124-48-1	MS	922	0	1000	92.2	77 - 122		
Chlorodibromomethane	124-48-1	MSD	957	0	1000	95.7	77 - 122	RPD 3.72 (Max-40)	
Chloroethane	75-00-3	MS	1180	0	1000	118	51 - 142		
Chloroethane	75-00-3	MSD	1140	0	1000	114	51 - 142	RPD 2.72 (Max-40)	
Chloroform	67-66-3	MS	1060	0	1000	106	78 - 122		
Chloroform	67-66-3	MSD	1090	0	1000	109	78 - 122	RPD 2.99 (Max-40)	
Chloromethane	74-87-3	MS	1200	0	1000	120	38 - 156		
Chloromethane	74-87-3	MSD	1150	0	1000	115	38 - 156	RPD 4.56 (Max-40)	
cis-1,2-Dichloroethene	156-59-2	MS	1830	741	1000	109	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	1850	741	1000	111	78 - 125	RPD 1.30 (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	MS	891	0	1000	89.1	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	929	0	1000	92.9	81 - 121	RPD 4.15 (Max-40)	
Dibromomethane	74-95-3	MS	1080	0	1000	108	81 - 125		
Dibromomethane	74-95-3	MSD	1090	0	1000	109	81 - 125	RPD 1.11 (Max-40)	
Dichlorodifluoromethane	75-71-8	MS	1380	0	1000	138	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	1320	0	1000	132	17 - 166	RPD 4.21 (Max-40)	
Diisopropyl ether	108-20-3	MS	1060	0	1000	106	74 - 131		
Diisopropyl ether	108-20-3	MSD	1080	0	1000	108	74 - 131	RPD 1.77 (Max-40)	
Ethylbenzene	100-41-4	MS	1180	22.90	1000	116	80 - 124		
Ethylbenzene	100-41-4	MSD	1250	22.90	1000	122	80 - 124	RPD 5.44 (Max-40)	
Hexachlorobutadiene	87-68-3	MS	1130	0	1000	113	55 - 128		
Hexachlorobutadiene	87-68-3	MSD	1300	0	1000	130*	55 - 128	RPD 13.90 (Max-40)	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	1040	0	1000	104	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	1070	0	1000	107	69 - 115	RPD 3.10 (Max-40)	
Methylene Chloride	75-09-2	MS	1110	0	1000	111	76 - 121		
Methylene Chloride	75-09-2	MSD	1130	0	1000	113	76 - 121	RPD 1.69 (Max-40)	
mp-Xylene	108383/106423	MS	2200	54.30	2000	107	79 - 125		
mp-Xylene	108383/106423	MSD	2290	54.30	2000	112	79 - 125	RPD 4.20 (Max-40)	
Naphthalene	91-20-3	MS	2390	1300	1000	109	56 - 134		
Naphthalene	91-20-3	MSD	2550	1300	1000	125	56 - 134	RPD 6.70 (Max-40)	
o-Chlorotoluene	95-49-8	MS	1050	0	1000	105	78 - 126		
o-Chlorotoluene	95-49-8	MSD	1150	0	1000	115	78 - 126	RPD 8.86 (Max-40)	
o-Xylene	95-47-6	MS	1120	31.20	1000	109	79 - 124		
o-Xylene	95-47-6	MSD	1170	31.20	1000	114	79 - 124	RPD 4.42 (Max-40)	
p-Chlorotoluene	106-43-4	MS	1070	0	1000	107	78 - 125		
p-Chlorotoluene	106-43-4	MSD	1180	0	1000	118	78 - 125	RPD 9.54 (Max-40)	
p-Isopropyltoluene	99-87-6	MS	949	0	1000	94.9	72 - 123		
p-Isopropyltoluene	99-87-6	MSD	1060	0	1000	106	72 - 123	RPD 11 (Max-40)	
Styrene	100-42-5	MS	1000	22.60	1000	98.2	79 - 123		
Styrene	100-42-5	MSD	1100	22.60	1000	108	79 - 123	RPD 8.97 (Max-40)	
Tetrachloroethene	127-18-4	MS	1030	0	1000	103	72 - 124		
Tetrachloroethene	127-18-4	MSD	1080	0	1000	108	72 - 124	RPD 4.79 (Max-40)	
Toluene	108-88-3	MS	1190	126	1000	107	80 - 125		
Toluene	108-88-3	MSD	1230	126	1000	111	80 - 125	RPD 3.42 (Max-40)	
Total Xylenes	1330-20-7	MS	3320	85.50	3000	108	79 - 125		
Total Xylenes	1330-20-7	MSD	3460	85.50	3000	112	79 - 125	RPD 4.28 (Max-40)	
trans-1,2-Dichloroethene	156-60-5	MS	1160	0	1000	116	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	1180	0	1000	118	71 - 122	RPD 2.02 (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	MS	887	0	1000	88.7	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	914	0	1000	91.4	78 - 126	RPD 3.04 (Max-40)	
Trichloroethene	79-01-6	MS	1110	0	1000	111	77 - 124		
Trichloroethene	79-01-6	MSD	1130	0	1000	113	77 - 124	RPD 1.32 (Max-40)	
Trichlorofluoromethane	75-69-4	MS	1300	0	1000	130*	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	1280	0	1000	128*	38 - 123	RPD 2.25 (Max-40)	
Vinyl Acetate	108-05-4	MS	858	0	1000	85.8	58 - 136		
Vinyl Acetate	108-05-4	MSD	899	0	1000	89.9	58 - 136	RPD 4.65 (Max-40)	
Vinyl Chloride	75-01-4	MS	1200	0	1000	120	27 - 138		
Vinyl Chloride	75-01-4	MSD	1140	0	1000	114	27 - 138	RPD 4.87 (Max-40)	

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	1600	1500	106	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	1550	1500	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	1530	1500	102	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	1590	1500	106	79 - 114	
Dibromofluoromethane	1868-53-7	MS	1520	1500	101	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	1490	1500	99.7	78 - 116	
Toluene-d8	2037-26-5	MS	1450	1500	97	76 - 127	
Toluene-d8	2037-26-5	MSD	1440	1500	95.8	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Method Blank 4004332 (MB) Created on 06/26/2025 00:57 For QC Batch 1448259

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.3	30	97.5	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	30.8	30	103	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.3	30	94.4	78 - 116	
Toluene-d8	2037-26-5	BLK	30.7	30	102	76 - 127	

Lab Control Standard 4004333 (LCS) Created on 06/26/2025 00:57 For QC Batch 1448259

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	22.5		20	112	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	22.1		20	111	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.2		20	106	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	21.9		20	109	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	21.3		20	106	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	22.1		20	110	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	21.1		20	105	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	19.8		20	99.1	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	20.4		20	102	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.7		20	113	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	18.1		20	90.6	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	22.3		20	112	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.3		20	107	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.9		20	104	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21.5		20	108	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	21.4		20	107	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	21.5		20	107	82 - 126		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,4-Dichlorobenzene	106-46-7	LCS	20.7		20	104	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	22.2		20	111	64 - 129		
2-Butanone	78-93-3	LCS	115		100	115	50 - 152		
2-Hexanone	591-78-6	LCS	100		100	100	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	97.2		100	97.2	71 - 146		
Acetone	67-64-1	LCS	123		100	123	40 - 151		
Benzene	71-43-2	LCS	20.7		20	103	80 - 124		
Bromobenzene	108-86-1	LCS	20.8		20	104	81 - 119		
Bromochloromethane	74-97-5	LCS	21.9		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.6		20	92.8	79 - 126		
Bromoform	75-25-2	LCS	18.8		20	93.9	70 - 123		
Bromomethane	74-83-9	LCS	20.7		20	104	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	18.6		20	93	62 - 132		
Chlorobenzene	108-90-7	LCS	21.3		20	106	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.4	77 - 122		
Chloroethane	75-00-3	LCS	19.4		20	97.2	51 - 142		
Chloroform	67-66-3	LCS	20.4		20	102	78 - 122		
Chloromethane	74-87-3	LCS	21		20	105	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	18.9		20	94.7	81 - 121		
Dibromomethane	74-95-3	LCS	21.5		20	108	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	23.6		20	118	17 - 166		
Diisopropyl ether	108-20-3	LCS	20.3		20	101	74 - 131		
Ethylbenzene	100-41-4	LCS	21.7		20	108	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	25.8		20	129*	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	21		20	105	69 - 115		
Methylene Chloride	75-09-2	LCS	21.1		20	105	76 - 121		
mp-Xylene	108383/106423	LCS	43.7		40	109	79 - 125		
Naphthalene	91-20-3	LCS	20.4		20	102	56 - 134		
o-Chlorotoluene	95-49-8	LCS	20.3		20	101	78 - 126		
o-Xylene	95-47-6	LCS	22.1		20	111	79 - 124		
p-Chlorotoluene	106-43-4	LCS	21.2		20	106	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	18.8		20	93.9	72 - 123		
Styrene	100-42-5	LCS	19.6		20	97.9	79 - 123		
Tetrachloroethene	127-18-4	LCS	22.3		20	111	72 - 124		
Toluene	108-88-3	LCS	21.4		20	107	80 - 125		
Total Xylenes	1330-20-7	LCS	65.8		60	110	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.6		20	108	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	96.2	78 - 126		
Trichloroethene	79-01-6	LCS	21		20	105	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.2		20	106	38 - 123		
Vinyl Acetate	108-05-4	LCS	17.8		20	89	58 - 136		
Vinyl Chloride	75-01-4	LCS	20.6		20	103	27 - 138		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.9	30	96.4	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.1	30	96.9	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.4	30	98	78 - 116	
Toluene-d8	2037-26-5	LCS	29.7	30	99.1	76 - 127	

QC Batch

QC Batch	1448539	Prep Method	N/A
Date	N/A	Analysis Method	SW846 8260D
Tech.			

Associated Samples

3420861001

Duplicate 4004991 (DUP) 3421664002 (non-Project Sample) For QC Batch 1448539

****NOTE - The Original Result and Duplicate Result shown below are raw results and are only used for the purpose of calculating Sample Duplicate percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	DUP	0	0	RPD	0	(Max-40)	U
1,1,1-Trichloroethane	71-55-6	DUP	0	0	RPD	0	(Max-40)	U
1,1,2,2-Tetrachloroethane	79-34-5	DUP	0	0	RPD	0	(Max-40)	U
1,1,2-Trichloroethane	79-00-5	DUP	0	0	RPD	0	(Max-40)	U
1,1-Dichloroethane	75-34-3	DUP	0	0	RPD	0	(Max-40)	U
1,1-Dichloroethene	75-35-4	DUP	0	0	RPD	0	(Max-40)	U
1,1-Dichloropropene	563-58-6	DUP	0	0	RPD	0	(Max-40)	U
1,2,3-Trichlorobenzene	87-61-6	DUP	0	0	RPD	0	(Max-40)	U
1,2,3-Trichloropropane	96-18-4	DUP	0	0	RPD	0	(Max-40)	U
1,2,4-Trichlorobenzene	120-82-1	DUP	0	0	RPD	0	(Max-40)	U
1,2-Dibromo-3-chloropropane	96-12-8	DUP	0	0	RPD	0	(Max-40)	U
1,2-Dibromoethane	106-93-4	DUP	0	0	RPD	0	(Max-40)	U
1,2-Dichlorobenzene	95-50-1	DUP	0	0	RPD	0	(Max-40)	U
1,2-Dichloroethane	107-06-2	DUP	0	0	RPD	0	(Max-40)	U
1,2-Dichloropropane	78-87-5	DUP	0	0	RPD	0	(Max-40)	U
1,3-Dichlorobenzene	541-73-1	DUP	0	0	RPD	0	(Max-40)	U
1,3-Dichloropropane	142-28-9	DUP	0	0	RPD	0	(Max-40)	U
1,4-Dichlorobenzene	106-46-7	DUP	0	0	RPD	0	(Max-40)	U
2,2-Dichloropropane	594-20-7	DUP	0	0	RPD	0	(Max-40)	U
2-Butanone	78-93-3	DUP	0	0	RPD	0	(Max-40)	U
2-Hexanone	591-78-6	DUP	0	0	RPD	0	(Max-40)	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	DUP	0	0	RPD	0	(Max-40)	U
Acetone	67-64-1	DUP	0	0	RPD	0	(Max-40)	U
Benzene	71-43-2	DUP	0	0	RPD	0	(Max-40)	U
Bromobenzene	108-86-1	DUP	0	0	RPD	0	(Max-40)	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)				Qualifiers
Bromochloromethane	74-97-5	DUP	0	0	RPD	0	(Max-40)	U
Bromodichloromethane	75-27-4	DUP	0.8615	0.8798	RPD	2.10	(Max-40)	U
Bromoform	75-25-2	DUP	0	0	RPD	0	(Max-40)	U
Bromomethane	74-83-9	DUP	0	0	RPD	0	(Max-40)	U
Carbon Tetrachloride	56-23-5	DUP	0	0	RPD	0	(Max-40)	U
Chlorobenzene	108-90-7	DUP	0	0	RPD	0	(Max-40)	U
Chlorodibromomethane	124-48-1	DUP	0	0	RPD	0	(Max-40)	U
Chloroethane	75-00-3	DUP	0	0	RPD	0	(Max-40)	U
Chloroform	67-66-3	DUP	1.7806	1.8379	RPD	3.16	(Max-40)	
Chloromethane	74-87-3	DUP	0	0	RPD	0	(Max-40)	U
cis-1,2-Dichloroethene	156-59-2	DUP	0	0	RPD	0	(Max-40)	U
cis-1,3-Dichloropropene	10061-01-5	DUP	0	0	RPD	0	(Max-40)	U
Dibromomethane	74-95-3	DUP	0	0	RPD	0	(Max-40)	U
Dichlorodifluoromethane	75-71-8	DUP	0	0	RPD	0	(Max-40)	U
Diisopropyl ether	108-20-3	DUP	0	0	RPD	0	(Max-40)	U
Ethylbenzene	100-41-4	DUP	0	0	RPD	0	(Max-40)	U
Hexachlorobutadiene	87-68-3	DUP	0	0	RPD	0	(Max-40)	U
Methyl t-Butyl Ether	1634-04-4	DUP	0	0	RPD	0	(Max-40)	U
Methylene Chloride	75-09-2	DUP	0	0	RPD	0	(Max-40)	U
mp-Xylene	108383/106423	DUP	0	0	RPD	0	(Max-40)	U
Naphthalene	91-20-3	DUP	0	0	RPD	0	(Max-40)	U
o-Chlorotoluene	95-49-8	DUP	0	0	RPD	0	(Max-40)	U
o-Xylene	95-47-6	DUP	0	0	RPD	0	(Max-40)	U
p-Chlorotoluene	106-43-4	DUP	0	0	RPD	0	(Max-40)	U
p-Isopropyltoluene	99-87-6	DUP	0	0	RPD	0	(Max-40)	U
Styrene	100-42-5	DUP	0	0	RPD	0	(Max-40)	U
Tetrachloroethene	127-18-4	DUP	0	0	RPD	0	(Max-40)	U
Toluene	108-88-3	DUP	0	0	RPD	0	(Max-40)	U
Total Xylenes	1330-20-7	DUP	0	0	RPD	0	(Max-40)	U
trans-1,2-Dichloroethene	156-60-5	DUP	0	0	RPD	0	(Max-40)	U
trans-1,3-Dichloropropene	10061-02-6	DUP	0	0	RPD	0	(Max-40)	U
Trichloroethene	79-01-6	DUP	0	0	RPD	0	(Max-40)	U
Trichlorofluoromethane	75-69-4	DUP	0	0	RPD	0	(Max-40)	U
Vinyl Acetate	108-05-4	DUP	0	0	RPD	0	(Max-40)	U
Vinyl Chloride	75-01-4	DUP	0	0	RPD	0	(Max-40)	U

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	DUP	29	30	96.8	62 - 133	
4-Bromofluorobenzene	460-00-4	DUP	29.1	30	96.9	79 - 114	
Dibromofluoromethane	1868-53-7	DUP	28.6	30	95.3	78 - 116	
Toluene-d8	2037-26-5	DUP	29.8	30	99.5	76 - 127	

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

Matrix Spike 4004992 (MS) 3421664003 (non-Project Sample) For QC Batch 1448539

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	MS	22.8	0	20	114	78 - 121		
1,1,1-Trichloroethane	71-55-6	MS	22.9	0	20	115	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	MS	20	0	20	99.9	74 - 135		
1,1,2-Trichloroethane	79-00-5	MS	21.2	0	20	106	82 - 126		
1,1-Dichloroethane	75-34-3	MS	21.8	0	20	109	78 - 124		
1,1-Dichloroethene	75-35-4	MS	22.3	0	20	111	63 - 128		
1,1-Dichloropropene	563-58-6	MS	21.7	0	20	108	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	MS	18.2	0	20	91.2	61 - 126		
1,2,3-Trichloropropane	96-18-4	MS	18.4	0	20	92.2	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	MS	21.5	0	20	107	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	MS	15.1	0	20	75.7	59 - 133		
1,2-Dibromoethane	106-93-4	MS	21.2	0	20	106	80 - 124		
1,2-Dichlorobenzene	95-50-1	MS	21.2	0	20	106	82 - 118		
1,2-Dichloroethane	107-06-2	MS	20.3	0	20	101	70 - 133		
1,2-Dichloropropane	78-87-5	MS	21.7	0	20	108	81 - 127		
1,3-Dichlorobenzene	541-73-1	MS	21.7	0	20	108	81 - 118		
1,3-Dichloropropane	142-28-9	MS	20.8	0	20	104	82 - 126		
1,4-Dichlorobenzene	106-46-7	MS	21	0	20	105	81 - 116		
2,2-Dichloropropane	594-20-7	MS	20.4	0	20	102	64 - 129		
2-Butanone	78-93-3	MS	87.7	0	100	87.7	50 - 152		
2-Hexanone	591-78-6	MS	76.6	0	100	76.6	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS	80.4	0	100	80.4	71 - 146		
Acetone	67-64-1	MS	79.8	0	100	79.8	40 - 151		
Benzene	71-43-2	MS	21.1	0	20	106	80 - 124		
Bromobenzene	108-86-1	MS	21.4	0	20	107	81 - 119		
Bromochloromethane	74-97-5	MS	22.1	0	20	110	73 - 117		
Bromodichloromethane	75-27-4	MS	19.3	0.69	20	92.9	79 - 126		
Bromoform	75-25-2	MS	17.2	0	20	86.2	70 - 123		
Bromomethane	74-83-9	MS	14.4	0	20	72.1	45 - 148		
Carbon Tetrachloride	56-23-5	MS	19.9	0	20	99.5	62 - 132		
Chlorobenzene	108-90-7	MS	21.8	0	20	109	85 - 117		
Chlorodibromomethane	124-48-1	MS	19.5	0	20	97.7	77 - 122		
Chloroethane	75-00-3	MS	20.8	0	20	104	51 - 142		
Chloroform	67-66-3	MS	21.7	1.20	20	103	78 - 122		
Chloromethane	74-87-3	MS	17.9	0	20	89.3	38 - 156		
cis-1,2-Dichloroethene	156-59-2	MS	21	0	20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	MS	18.3	0	20	91.5	81 - 121		
Dibromomethane	74-95-3	MS	20.9	0	20	105	81 - 125		
Dichlorodifluoromethane	75-71-8	MS	23.4	0	20	117	17 - 166		
Diisopropyl ether	108-20-3	MS	20.2	0	20	101	74 - 131		
Ethylbenzene	100-41-4	MS	22.3	0	20	111	80 - 124		
Hexachlorobutadiene	87-68-3	MS	22.3	0	20	111	55 - 128		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	MS	19.1	0	20	95.5	69 - 115		
Methylene Chloride	75-09-2	MS	20.9	0	20	104	76 - 121		
mp-Xylene	108383/106423	MS	45	0	40	113	79 - 125		
Naphthalene	91-20-3	MS	18.3	0	20	91.6	56 - 134		
o-Chlorotoluene	95-49-8	MS	21.4	0	20	107	78 - 126		
o-Xylene	95-47-6	MS	23	0	20	115	79 - 124		
p-Chlorotoluene	106-43-4	MS	21.8	0	20	109	78 - 125		
p-Isopropyltoluene	99-87-6	MS	19.4	0	20	97.2	72 - 123		
Styrene	100-42-5	MS	20.1	0	20	101	79 - 123		
Tetrachloroethene	127-18-4	MS	21.4	0	20	107	72 - 124		
Toluene	108-88-3	MS	22.3	0	20	111	80 - 125		
Total Xylenes	1330-20-7	MS	68	0	60	113	79 - 125		
trans-1,2-Dichloroethene	156-60-5	MS	21.9	0	20	109	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	MS	18.3	0	20	91.5	78 - 126		
Trichloroethene	79-01-6	MS	21.2	0	20	106	77 - 124		
Trichlorofluoromethane	75-69-4	MS	20	0	20	99.8	38 - 123		
Vinyl Acetate	108-05-4	MS	13.5	0	20	67.6	58 - 136		
Vinyl Chloride	75-01-4	MS	18.1	0	20	90.4	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	MS	31	30	103	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	30.7	30	102	79 - 114	
Dibromofluoromethane	1868-53-7	MS	30.4	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	30	30	100	76 - 127	

Method Blank 4004989 (MB) Created on 06/26/2025 23:59 For QC Batch 1448539

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	BLK	1.0 U	ug/L	1.0	U
1,1,1-Trichloroethane	71-55-6	BLK	1.0 U	ug/L	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	BLK	1.0 U	ug/L	1.0	U
1,1,2-Trichloroethane	79-00-5	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethane	75-34-3	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloroethene	75-35-4	BLK	1.0 U	ug/L	1.0	U
1,1-Dichloropropene	563-58-6	BLK	1.0 U	ug/L	1.0	U
1,2,3-Trichlorobenzene	87-61-6	BLK	2.0 U	ug/L	2.0	U
1,2,3-Trichloropropane	96-18-4	BLK	2.0 U	ug/L	2.0	U
1,2,4-Trichlorobenzene	120-82-1	BLK	2.0 U	ug/L	2.0	U
1,2-Dibromo-3-chloropropane	96-12-8	BLK	7.0 U	ug/L	7.0	U
1,2-Dibromoethane	106-93-4	BLK	1.0 U	ug/L	1.0	U
1,2-Dichlorobenzene	95-50-1	BLK	1.0 U	ug/L	1.0	U
1,2-Dichloroethane	107-06-2	BLK	1.0 U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
1,2-Dichloropropane	78-87-5	BLK	1.0 U	ug/L	1.0	U
1,3-Dichlorobenzene	541-73-1	BLK	1.0 U	ug/L	1.0	U
1,3-Dichloropropane	142-28-9	BLK	1.0 U	ug/L	1.0	U
1,4-Dichlorobenzene	106-46-7	BLK	1.0 U	ug/L	1.0	U
2,2-Dichloropropane	594-20-7	BLK	1.0 U	ug/L	1.0	U
2-Butanone	78-93-3	BLK	10.0 U	ug/L	10.0	U
2-Hexanone	591-78-6	BLK	5.0 U	ug/L	5.0	U
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	5.0 U	ug/L	5.0	U
Acetone	67-64-1	BLK	10.0 U	ug/L	10.0	U
Benzene	71-43-2	BLK	1.0 U	ug/L	1.0	U
Bromobenzene	108-86-1	BLK	1.0 U	ug/L	1.0	U
Bromochloromethane	74-97-5	BLK	1.0 U	ug/L	1.0	U
Bromodichloromethane	75-27-4	BLK	1.0 U	ug/L	1.0	U
Bromoform	75-25-2	BLK	1.0 U	ug/L	1.0	U
Bromomethane	74-83-9	BLK	1.0 U	ug/L	1.0	U
Carbon Tetrachloride	56-23-5	BLK	1.0 U	ug/L	1.0	U
Chlorobenzene	108-90-7	BLK	1.0 U	ug/L	1.0	U
Chlorodibromomethane	124-48-1	BLK	1.0 U	ug/L	1.0	U
Chloroethane	75-00-3	BLK	1.0 U	ug/L	1.0	U
Chloroform	67-66-3	BLK	1.0 U	ug/L	1.0	U
Chloromethane	74-87-3	BLK	1.0 U	ug/L	1.0	U
cis-1,2-Dichloroethene	156-59-2	BLK	1.0 U	ug/L	1.0	U
cis-1,3-Dichloropropene	10061-01-5	BLK	1.0 U	ug/L	1.0	U
Dibromomethane	74-95-3	BLK	1.0 U	ug/L	1.0	U
Dichlorodifluoromethane	75-71-8	BLK	1.0 U	ug/L	1.0	U
Diisopropyl ether	108-20-3	BLK	1.0 U	ug/L	1.0	U
Ethylbenzene	100-41-4	BLK	1.0 U	ug/L	1.0	U
Hexachlorobutadiene	87-68-3	BLK	5.0 U	ug/L	5.0	U
Methyl t-Butyl Ether	1634-04-4	BLK	1.0 U	ug/L	1.0	U
Methylene Chloride	75-09-2	BLK	1.0 U	ug/L	1.0	U
mp-Xylene	108383/106423	BLK	2.0 U	ug/L	2.0	U
Naphthalene	91-20-3	BLK	2.0 U	ug/L	2.0	U
o-Chlorotoluene	95-49-8	BLK	1.0 U	ug/L	1.0	U
o-Xylene	95-47-6	BLK	1.0 U	ug/L	1.0	U
p-Chlorotoluene	106-43-4	BLK	1.0 U	ug/L	1.0	U
p-Isopropyltoluene	99-87-6	BLK	1.0 U	ug/L	1.0	U
Styrene	100-42-5	BLK	1.0 U	ug/L	1.0	U
Tetrachloroethene	127-18-4	BLK	1.0 U	ug/L	1.0	U
Toluene	108-88-3	BLK	1.0 U	ug/L	1.0	U
Total Xylenes	1330-20-7	BLK	3.0 U	ug/L	3.0	U
trans-1,2-Dichloroethene	156-60-5	BLK	1.0 U	ug/L	1.0	U
trans-1,3-Dichloropropene	10061-02-6	BLK	1.0 U	ug/L	1.0	U
Trichloroethene	79-01-6	BLK	1.0 U	ug/L	1.0	U
Trichlorofluoromethane	75-69-4	BLK	1.0 U	ug/L	1.0	U
Vinyl Acetate	108-05-4	BLK	5.0 U	ug/L	5.0	U
Vinyl Chloride	75-01-4	BLK	1.0 U	ug/L	1.0	U

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	28.8	30	96	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	31.8	30	106	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	29.1	30	97	78 - 116	
Toluene-d8	2037-26-5	BLK	30.9	30	103	76 - 127	

Lab Control Standard 4004990 (LCS) Created on 06/26/2025 23:59 For QC Batch 1448539

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1,2-Tetrachloroethane	630-20-6	LCS	22.8		20	114	78 - 121		
1,1,1-Trichloroethane	71-55-6	LCS	22.1		20	111	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20		20	100	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.8		20	104	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.8		20	104	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.9		20	105	63 - 128		
1,1-Dichloropropene	563-58-6	LCS	21		20	105	76 - 126		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.1		20	100	61 - 126		
1,2,3-Trichloropropane	96-18-4	LCS	18.8		20	93.9	75 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCS	24		20	120	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	15.6		20	78.2	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	21.2		20	106	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	22.3		20	111	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	19.9		20	99.3	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	22.5		20	113	81 - 118		
1,3-Dichloropropane	142-28-9	LCS	20.7		20	103	82 - 126		
1,4-Dichlorobenzene	106-46-7	LCS	22.1		20	110	81 - 116		
2,2-Dichloropropane	594-20-7	LCS	23.5		20	117	64 - 129		
2-Butanone	78-93-3	LCS	91.7		100	91.7	50 - 152		
2-Hexanone	591-78-6	LCS	81.2		100	81.2	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	81.2		100	81.2	71 - 146		
Acetone	67-64-1	LCS	101		100	101	40 - 151		
Benzene	71-43-2	LCS	20.4		20	102	80 - 124		
Bromobenzene	108-86-1	LCS	21.7		20	109	81 - 119		
Bromochloromethane	74-97-5	LCS	21.9		20	110	73 - 117		
Bromodichloromethane	75-27-4	LCS	18.6		20	93	79 - 126		
Bromoform	75-25-2	LCS	18		20	89.8	70 - 123		
Bromomethane	74-83-9	LCS	22.1		20	110	45 - 148		
Carbon Tetrachloride	56-23-5	LCS	18.6		20	93	62 - 132		
Chlorobenzene	108-90-7	LCS	21.8		20	109	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.3		20	96.4	77 - 122		
Chloroethane	75-00-3	LCS	23.9		20	120	51 - 142		
Chloroform	67-66-3	LCS	20.1		20	101	78 - 122		
Chloromethane	74-87-3	LCS	22.6		20	113	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.6		20	103	78 - 125		

QUALITY CONTROL SAMPLES

VOLATILE ORGANICS (cont.)

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
cis-1,3-Dichloropropene	10061-01-5	LCS	19		20	95	81 - 121		
Dibromomethane	74-95-3	LCS	20.7		20	103	81 - 125		
Dichlorodifluoromethane	75-71-8	LCS	27		20	135	17 - 166		
Diisopropyl ether	108-20-3	LCS	19.7		20	98.4	74 - 131		
Ethylbenzene	100-41-4	LCS	22.3		20	111	80 - 124		
Hexachlorobutadiene	87-68-3	LCS	27		20	135*	55 - 128		
Methyl t-Butyl Ether	1634-04-4	LCS	19.1		20	95.3	69 - 115		
Methylene Chloride	75-09-2	LCS	20.4		20	102	76 - 121		
mp-Xylene	108383/106423	LCS	45.1		40	113	79 - 125		
Naphthalene	91-20-3	LCS	18.8		20	94.2	56 - 134		
o-Chlorotoluene	95-49-8	LCS	21.4		20	107	78 - 126		
o-Xylene	95-47-6	LCS	22.7		20	114	79 - 124		
p-Chlorotoluene	106-43-4	LCS	22.2		20	111	78 - 125		
p-Isopropyltoluene	99-87-6	LCS	20		20	100	72 - 123		
Styrene	100-42-5	LCS	20.6		20	103	79 - 123		
Tetrachloroethene	127-18-4	LCS	22.4		20	112	72 - 124		
Toluene	108-88-3	LCS	21.9		20	109	80 - 125		
Total Xylenes	1330-20-7	LCS	67.9		60	113	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.3		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	19.2		20	96.1	78 - 126		
Trichloroethene	79-01-6	LCS	21.1		20	105	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	23.4		20	117	38 - 123		
Vinyl Acetate	108-05-4	LCS	16.6		20	83.1	58 - 136		
Vinyl Chloride	75-01-4	LCS	20.4		20	102	27 - 138		

SURROGATES

Compound	CAS No		Result (ug/L)	Expected (ug/L)	Rec. (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	28.6	30	95.3	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	29.2	30	97.2	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	29.1	30	96.9	78 - 116	
Toluene-d8	2037-26-5	LCS	29.3	30	97.5	76 - 127	

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3420861001	RW-1S	SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448345
		SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1448259
		N/A	N/A	N/A		SW846 8260D	1448539
3420861002	RW-2S	SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448345
		SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1448259
3420861003	RW-3S	SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1448259
3420861004	RW-1D	SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448345
		SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1448259
3420861005	RW-2D	SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448345
		SW846 3510C	1445453	06/23/2025 08:05	EJH	SW846 8270E SIM	1448195
		N/A	N/A	N/A		SW846 8260D	1448259
3420861006	Trip Blank 5	N/A	N/A	N/A		SW846 8260D	1448259

301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

3420861
Logged By: SLS
PM: SJB

1 of

Client Name: WSPUSA
Address: 13530 Dulles Technology Dr Herndon
Contact: Eric Johnson
Phone#:
Project Name/#: Kop Flex ONSITE
Bill To: P130662 US001
Purchase Order #:
TAT: ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? ☐

Container Type	G	A
Container Size	40ml	250ml
Preservative	HCL	UNP

pB 6/16/25

Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No

ANALYSIS / METHOD REQUESTED: VOCs 8260; 1,4 dioxane 8270

Enter Number of Containers Per Sample or Field Results Below.

#	Sample Description/Location (as it will appear on the lab report)	Date Collected mm/dd/yy	Time hh:mm	SDWA Sample Type (see key)	*G or C	**Matrix (See bottom of COC)	VOCs 8260	1,4 dioxane 8270
1	RW-1S	6/16/25	1225		G	GW	3x	2x
2	RW-2S		1230				3x	2x
3	RW-3S		1245				3x	2x
4	RW-1D		1300				3x	2x
5	RW-2D		1310				3x	2x
6	Trip blank 5						2x	
7								
8								
9								
10								

Temp C	Therm ID	On Ice
3		Y N

Sample(s) for Radiation testing? Y N
Reportable SDWA Sample(s)? Y N
SDWA State of Origin
PWSID#
PWS Contact
PWS Phone#
New Source? Y N
New Source Contact:

SDWA Sample Type Key:
D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup

Comments

Circle Sample Collector: ALS Tech / Client
Name: ID:
Comments:

Date:	Time		Relinquished By / Company Name		Received By / Company Name
6/16/25	1540	1	[signature] WSP	2	[signature] Black ALS
6-16-25	2000	3	Maggie Black ALS	4	[signature]
		5		6	
		7		8	
		9		10	

Data Deliverables: ☐ Standard Lvl 1 ☐ Standard Lvl 2 ☐ Standard Lvl 3 ☐ Standard Lvl 4 ☐ CLP-like ☐ DOD ☐ NJ RED ☐ NJ Full ☐ HSCA ☐ Landfill ☐ NJ GW ☐ ____

EDDs: ☐ Excel Summary ☐ Equis ☐ Custom
EDDS: Format Type

Sample Disposal: Lab ☐ Special ☐

State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ WV ☐ FL ☐ other

* G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Visit link for detailed Terms & Conditions: https://www.alsglobal.com/ALSGroupUSACorpTC

Rev. 11/25/2024

Middletown Sample Condition Form

Client: WSP

Workorder: 34128601

Temp °C: 5° Therm ID: 649 Ice? Y N N/A

Initials & Date: DO 6/18/25

Fedex UPS Client ALS Other

Tracking #: ______

	Yes	No[1]	N/A	Comments
Cooler Custody Seals present & intact			✓	
Sample Custody Seals present & intact			✓	
Chain-of-Custody present	✓			
Sample collector name present *If not present, must contact PM/client to request name.*		✓		PM
COC/bottle labels complete & in agreement		✓		
•Sample location	✓			
•Date and time of sample collection	✓			
•Type(s) of preservation		✓		UC
•Number of containers	✓			
•Composite or grab	✓			
•Matrix	✓			
Proper containers, preservation, and volume per method	✓			
Received within hold time	✓			
Containers intact	✓			
Trip blanks present (EPA 504, EPA 524)	✓			
Field blanks present (Hg 1631, PFAS)			✓	
NJ ≤ 4 Days			✓	
CR6 Samples Filtered			✓	
OP Samples Filtered			✓	
WV Containers 0-6°C			✓	
SDWA compliance reporting			✓	

[1] *If No, provide comment*

Rad Screen (uCi) ______

PM - PM to contact client
N/A - Not Applicable
UC - Updated coc with missing informatio

Review Comments:

______

______

______