
INTERIM REMEDIAL ACTION PLAN/VAPOR INTRUSION EVALUATION PLAN & SCHEDULE

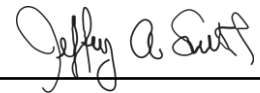
**Gasoline Release – Tank 708 Area
MIPC Chelsea Facility
920 Cherry Tree Road, Aston, PA 19014**

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1. EXECUTIVE SUMMARY

In accordance with Parts 1.i and 1.k of the Order issued by the Pennsylvania Department of Environmental Protection (PADEP) on December 23, 2025 directing MIPC, LLC (MIPC) to respond to the Tank 708 release at the MIPC Chelsea Facility (Chelsea Tank Farm or “site”) in Aston, Delaware County, PA, Langan Engineering and Environmental Services, LLC (Langan), on behalf of MIPC, has prepared this Interim Remedial Action (IRA) Plan and Vapor Intrusion Evaluation Plan (VI Plan). The approximate location of the site is shown on the Vicinity Map, Figure 1.

The above Order requests that MIPC submit, by January 13, 2026, an “interim action plan and schedule, describing soil, groundwater, LNAPL, surface water remedial measures. The plan shall describe the proposed short-term measures to quickly recover LNAPL to the maximum extent practicable to prevent further migration of LNAPL in the environment and to protect human health and the environment.”

In addition, the Order requests that MIPC, by the same date, submit a “vapor intrusion investigation plan for potentially affected properties describing activities to date, results, mitigation measures, (if applicable), plans for further evaluation, and a schedule for mitigation and evaluation consistent with the Land Recycling Program Technical Guidance Manual, Section IV.”

To meet the objectives of the Order, this plan relates to on-site and potentially affected off-site properties and conveys the primary goals/objectives of ongoing interim measures, product or light non-aqueous phase liquid (LNAPL) recovery, and investigation activities. It is intended to provide a status report for response actions and on-site and off-site investigation activities completed and/or planned with a summary of findings and accomplishments to date. This IRA is a dynamic plan that is flexible and subject to modifications as warranted as new information/data becomes available and is interpreted.

A summary of the chronology of the subsurface investigations and ongoing interim remedial measures are outlined below.

- Recovery through the PADEP-approved water treatment unit began September 13, 2025.
- Soil borings began on November 18, 2025; to date eight investigatory soil borings have been drilled and 15 monitoring wells have been installed.
- Evidence of petroleum impacts were observed in borings in the Tank 708 dike area with apparent LNAPL thickness between 3” – 1.5’ in the open borings.
- LNAPL has been observed in 9 of the 15 on-site monitoring wells, primarily near the Tank 708 dike and areas west.
- Focused interim remedial measures have been conducted since December 5, 2025 to quickly recover LNAPL and to reduce the potential for further migrations of LNAPL. The primary approach using Vacuum Enhanced Fluid Recovery (VEFR) is ongoing and confirms the potential recoverability of LNAPL (gasoline) as an interim measure to reduce mass flux and migration potential.
- An Act 2 Notice of Intent to Remediate (NIR) for the release was submitted to the PADEP via the public upload portal on December 30, 2025.

- Delineation of LNAPL and dissolved phase hydrocarbons has been achieved in northerly and southwesterly directions along the MIPC westerly property line. Delineation has also been achieved to the north and northeast of Tank 708.
- Additional soil and groundwater sampling for delineation/remediation purposes is planned for the week of January 12, 2026. Three drill rigs (two sonic and one Geoprobe) are scheduled to expand the site investigations and characterization on-site, install additional wells to enhance VEFR and product recovery, and conduct further investigation and delineation of groundwater impacts and advance vapor intrusion evaluations when access is granted and investigation can move to the nearest off-site properties.

Figure 2 depicts the locations of soil borings drilled, the monitoring wells installed, and the occurrence, distribution of LNAPL based on observations made to date and product recovery efforts, including Vacuum Enhanced Fluid Recovery (VEFR), continue to be directed. Attached Table 1 provides monitoring well construction details, survey information, and groundwater and product elevations from a January 5, 2026 survey.

Figure 3 depicts the groundwater and top of LNAPL elevations taken from the January 5, 2026 well gauging event which represents a “snapshot” of elevations and migration potential. The groundwater results indicate a dissolved-phase concentration of benzene at one location (MW-4, 3,450 µg/L) that exceeds the PA Act 2 Groundwater Medium Specific Concentrations (MSCs) for a Residential, Used Aquifer (RUA) with Total Dissolved Solids (TDS) <2500. Onsite monitoring wells MW-3 (east), MW-5 (south), MW-10 (northwest), MW-11 (north), and MW-12 (south) do not have measurable LNAPL, do not have field indications of impact (e.g., PID readings, odors, staining), and do not have compounds of concern present at concentrations above the PA Act 2 Groundwater MSCs for a RUA (TDS <2500).

The interim remedial response strategy is being executed as a parallel, concurrent program — implementing immediate on-site LNAPL recovery, determining potential receptors and investigating exposure pathways potentially affecting off-site receptors, while simultaneously advancing site characterization, delineation of LNAPL, impacted soils and dissolved gasoline constituents in groundwater. Collectively, the concurrent response actions and investigations will provide data to refine the Conceptual Site Model (CSM) while also generating remediation focused pilot-scale performance data to establish a basis for design (well spacing, extraction approach/systems, vapor and liquid controls, and monitoring). The construction and operation of long-term remediation systems toward achieving site cleanup under the Pennsylvania Land Recycling (Act 2) program is anticipated to commence in the second quarter of 2026.

In summary, interim remedial measures including VEFR LNAPL recovery initiated on December 5, 2025, have resulted in the following:

- Installation of 23 borings
- Installation of 15 overburden groundwater monitoring wells
- Completion of 18 active VEFR/manual hand-bailing events (as of January 9, 2026) resulting in the removal of approximately 757 gallons of LNAPL

- MIPC's removal estimate of 28,800 gallons of LNAPL (based on a graduated cylinder observation approach for LNAPL percentages) via the wastewater treatment unit (WTU)
- Sampling of six wells that do not contain LNAPL and analyzing groundwater samples for dissolved gasoline constituents
- Initiation of daily fenceline air monitoring on December 30, 2025 from just before midnight to midnight
- Offsite drinking water well sampling at 18 homes (plus one non-potable well) in the surrounding community
- Public outreach to 117 property owners/residents
- Requests to 117 property owners to complete well surveys, grant permission to sample private wells (as applicable), offer bottled water (as applicable), along with site access requests to the proximate group of potentially affected property owners

2. INTERIM REMEDIAL ACTION & INVESTIGATION PRIORITIES & OBJECTIVES

Parts 1.i and 1.k of the Order issued by the Pennsylvania Department of Environmental Protection (PADEP) on December 23, 2025 direct MIPC to respond to the Tank 708 release at the MIPC site and requires the January 13, 2026 submittal of an "interim action plan and schedule, describing soil, groundwater, LNAPL, surface water remedial measures. The plan shall describe the proposed short-term measures to quickly recover LNAPL to the maximum extent practicable to prevent further migration of LNAPL in the environment and to protect human health and the environment."

In addition, the Order requests that MIPC, by the same date, submit a "vapor intrusion investigation plan for potentially affected properties describing activities to date, results, mitigation measures, (if applicable), plans for further evaluation, and a schedule for mitigation and evaluation consistent with the Land Recycling Program Technical Guidance Manual, Section IV."

To meet the objectives of the Order, this Interim Remedial Action (IRA) Plan and Vapor Intrusion Evaluation Plan (VI Plan) have been prepared outlining the interim remedial strategy and the proposed schedule relative to the interim remedial actions. The VI Plan has been incorporated into this IRA and is presented in Section 5.

The ongoing and proposed interim remedial action plans and activities are directed toward mitigating the presence and potential mobility of LNAPL and the measured dissolved-phase constituents resulting from the release with the following priorities and objectives:

1. Continue to conduct community outreach, seek access agreements, and address potential downgradient receptors with emphasis on those properties that use private drinking water wells and are proximate to the western plume margin;
2. Establish edge-of-plume control points and progress inward toward the release area to enhance ongoing and expanded LNAPL lateral recovery optimization; and
3. Continue source area characterization and implement source-area controls in parallel (e.g., product skimming, vacuum enhanced fluids recovery (VEFR), Dual Phase Extraction (DPE) and potentially soil vapor extraction (SVE), where appropriate).

The near-term IRA program prioritizes receptor control to the west of MW-9, assessment of the Tank 708 release area and former springhouse/seep area, and installation of a targeted well network (including offsite sentinel wells as appropriate and pending site access) to refine the CSM and to provide a basis for an optimized multi-well VEFR/DPE remedy. Pilot data collection will be used to finalize system configuration and controls (vacuum distribution, SCFM, vapor treatment, extracted fluid handling/disposal, and to evaluate potential, future options for remediation of dissolved-phase groundwater. This multifaceted approach reduces near-term migration (LNAPL head) potential while generating the data needed as a basis of design to optimize the remedial remedy.

3. SITE BACKGROUND AND RELEASE OVERVIEW

The ±162-acre site is industrial land known as the MIPC Chelsea Tank Farm (see Figure 1). The facility operates as a refined petroleum pipeline (SIC 4613) transportation facility, which consists of break-out tanks (12), pipelines (2 incoming and 4 outgoing), and a manifold area. The break-out tanks are used for bulk distribution of gasoline and diesel fuel. The site is owned by Monroe Energy, LLC and operated by MIPC, LLC. No changes to the land use or onsite operations are foreseen in the future.

On August 18, 2025, at approximately 3:30 PM, an MIPC Operator reported an odor to MIPC leadership following their daily rounds of the Chelsea Tank Farm. The source of the odor was estimated to be a light hydrocarbon product, tested and confirmed to be unleaded gasoline, coming out of a previously unknown open-ended concrete pipe in the ground near the southwest corner of Tank 709 containment area. The source of the release was subsequently identified as Tank 708. The release was stopped when the tank was emptied and taken out of service for inspection. The presence of a hole in the bottom of the tank was confirmed on December 13, 2025.

Since the August 2025 discovery, MIPC immediately initiated interim response actions, including operation of a Water Treatment Unit (WTU) under a PADEP-approved temporary discharge request (see Attachment 1 and additional information in Section 4), LNAPL/product recovery, source investigation, continued agency and community outreach and communications, local groundwater use/receptor evaluation, decommissioning and assessment of Tank 708, private well surveys/sampling (mailed and door-to-door visits), a remedial investigation (borings and well installations), soil sampling, low-flow groundwater sampling of wells that do not contain LNAPL, and fenceline air monitoring. The approximate location of the monitoring/extraction wells installed is shown on Figure 2.

An Act 2 Notice of Intent to Remediate (NIR) for the release was submitted to the DEP via the public upload portal on December 30, 2025. Included with the NIR submission was proof of municipal notification (USPS certified mailing receipts for letters sent to Aston, Bethel and Upper Chichester Townships) and the text for public notification in a locally circulated newspaper. The public notice was subsequently published in the Delaware County Times newspaper on January 1, 2026.

Ongoing and continued interim response actions include:

- Enhanced LNAPL recovery via integrated multi-well extraction, and hand bailing to assess recoverability and to gather design criteria in the near term for planned product skimmer deployment and DPE system(s) (Quarter 1 2026).
- Off-site testing of private wells not already sampled for properties with approved access located within 1000 feet of the western site boundary and establishment of a monitoring program for off-site private well sampling. Provisions for bottled water, Point of Entry Treatment (POET) system installation and testing were implemented pursuant to the Order.
- In addition to bottled water service, connections to public water service are being offered and will be provided, if requested, to potentially affected properties proximal to the site.
- Ongoing and expanding subsurface investigations (soil borings, monitoring well installations, soil and groundwater sampling, and lab analysis, daily well gauging and perimeter air monitoring) with multiple drill rigs to expedite efforts will continue as outlined in the interim remedial measure schedule in Section 6.
- Access agreements to off-site properties to conduct subsurface investigations are actively being pursued with property owners to enable off-site investigations of soil, groundwater and soil vapor as part of delineating the extent of petroleum impacts via monitoring well installation/sampling and subsequent vapor intrusion evaluation.
- Fenceline air monitoring will continue as further described in the Fenceline Perimeter Air Monitoring Sampling Plan, prepared by Langan, dated January 13, 2026, and submitted to PADEP under separate cover.
- As requested in the Order, a VI Plan has been prepared and is presented in Section 5.

3.1 Site Hydrogeology

Delaware County is underlain by crystalline metamorphic rocks that are mainly comprised of gneisses and schists. The overburden encountered at the site consists of varying proportions of clay, silt, sand, along with basal cobbles and gravel. Weathered bedrock and saprolite (weathered bedrock that retains its original texture and structure of the bedrock from which it develops, affecting the chemical and physical properties) are encountered at variable depths on-site.

Depth-to-groundwater ranges from approximately 4 feet to 40 feet below ground surface (bgs). A review of the corrected groundwater elevations indicates that the groundwater flow direction is generally towards the south (see Attached Table 1 and Figure 3).

3.2 Summary of LNAPL and Dissolved Groundwater Monitoring Results

Groundwater gauging for LNAPL is currently being conducted concurrently with VEFR events at a frequency not less than once per week; see Attached Table 1 and Figure 3 for gauging data collected on January 5, 2026. Dissolved groundwater sampling is being conducted periodically as the monitoring well network is installed.

To date, measured LNAPL is present in 9 of 15 monitoring wells installed at the MIPC site. Site observations to date support a CSM in which LNAPL is present in the overburden and is observed

at/near the soil/weathered bedrock and saprolite interfaces. Indications are that in the saprolite, where structure and texture of the parent rock are retained, the LNAPL potentially accumulates and may preferentially migrate compared to overlying overburden soils. In this setting, bedrock relief (local highs/lows), variability in weathered bedrock/saprolite characteristics and heterogeneity in overburden can influence groundwater flow and LNAPL accumulation, producing pronounced spatial variability in LNAPL occurrence and apparent thickness.

Langan conducted low-flow groundwater sampling for the six wells that had no measurable LNAPL (MW-3, -4, -5, -10, -11 and -12) on December 22 and 23, 2025. The groundwater samples were analyzed for the PA Petroleum Short List (EPA 8021B/8260D), which includes benzene, ethylbenzene, toluene and xylenes (BTEX).

No exceedances of the Residential or Non-Residential Groundwater MSCs or SV_{GW} were detected in groundwater samples collected from Monitoring Wells MW-3, -5, -10, -11 or -12. Benzene was detected in groundwater samples collected from Monitoring Well MW-4 at a concentration above the PA Act 2 Groundwater MSCs and SV_{GW} . Ethylbenzene, xylenes, and 1,2,4-trimethylbenzene were also detected in the MW-4 groundwater sample at concentrations above the $1/10 SV_{GW}$. The approximate locations of the monitoring wells are shown on Figure 2.

Results for MW-4 are summarized in Inset Table 1 below, and a full data summary table and laboratory reports were provided to PADEP as part of the 2nd Weekly Progress Report (copy included as Attachment 2).

Inset Table 1: Summary of Results of MW-4 Groundwater Sampling

Analyte	Act 2 N/RUA Groundwater MSCs	Act 2 Non- Res SV_{GW}	MW-4 12/22/2025	DUP-1 (of MW-4)
Benzene	5	35	<u>3,450</u>	<u>3,470</u>
Toluene	1,000	43,000	457	443
Ethylbenzene	700	86	177	171
Xylene (total)	10,000	1,200	1,680	1,670

Results and MSCs reported in micrograms per liter (ug/L)

N/RUA = Non-Residential and Residential Used Aquifer

DUP-1 = duplicate sample.

Field and trip blanks were non-detect for BTEX as reported.

Underline indicates exceedance of Act 2 Groundwater MSC

Bold indicates exceedances of Act 2 Non-Residential SV_{GW}

On-site VEFR has consistently demonstrated measurable reductions in apparent LNAPL thickness and recovery of free product, confirming recoverability and supporting continuation/expansion as an interim remedial measure. The evolving CSM indicates gasoline is preferentially migrating in the subsurface overburden and indications to date are that LNAPL occurrence is frequently observed at/near the top of weathered bedrock surface, with LNAPL

and dissolved phased groundwater impacts apparently influenced by saprolite and surface topography characteristics.

4. INTERIM REMEDIAL ACTIONS IMPLEMENTED & PLANNED

Ongoing and planned interim remedial measures for LNAPL recovery are described below.

4.1 Water Treatment Unit and Temporary Discharge Approval

On September 3, 2025, Weston Solutions Inc. (Weston), on behalf of MIPC, submitted to PADEP a Temporary Discharge Authorization Request under existing MIPC NPDES Permit No. PA0011231 to discharge treated water to the existing MIPC drainage system via Outfall 002. A copy of the request is included as Attachment 1. Weston's request describes the temporary water treatment system that was designed to collect and treat the water/gasoline mixture discharging from the concrete pipe that was discovered in August 2025. As described and shown via diagram included in the request, the in-line system is comprised of a sump tank, an 18,000-gallon weir tank, bag filters, granular activated carbon vessels, and discharge via NPDES-permitted Outfall 002.

By letter dated September 9, 2025 (see Attachment 1), the PADEP Clean Water Program approved the temporary discharge request. The approval grants operation of the system for a period of six months beginning on September 9, 2025, with an average flow of 10 gallons per minute (gpm) and a maximum batch discharge of 60 gpm. An extension request for the temporary discharge authorization will be filed.

MIPC is regularly monitoring effluent discharge quality and reporting analytical results to PADEP in accordance with the temporary discharge approval.

MIPC continues to operate the temporary water treatment system since September 13, 2025, and its operation has demonstrated removal of LNAPL and hydraulic control in the area of the release. To date, MIPC estimates that 28,800 gallons of LNAPL have been recovered via the treatment system as of early January 2026. This estimate is based on measurements of total fluid flow (approximately 759,850 gallons through January 9, 2026) and approximate LNAPL percentage (4.87%, based on periodic [twice weekly] measurements) using a graduated cylinder observation approach. Additional efforts are underway to refine the LNAPL percentage of recovered fluids from the WTU system.

4.2 LNAPL Recovery Trench/Sump at Excavation Seep Area

A planned LNAPL recovery trench/sump will be installed as soon as the week of January 12, 2026 immediately north (up-gradient) of the existing WTU area as an interim remedial measure. As reported to PADEP in the 2nd Weekly Progress Report (see Attachment 2), LNAPL was recently observed in the WTU excavation area. The trench will be constructed in attempt to provide hydraulic control and to facilitate the recovery of LNAPL. System performance will be monitored and evaluated for future incorporation into the longer-term remedial strategy.

4.3 VEFR Overview and Results

VEFR has been implemented as an interim remedial action to recover mobile LNAPL and reduce mass flux and migration potential while delineation progresses. VEFR is also being used as a pilot platform to generate performance metrics needed for scalable remedy design, including expected recovery rates, LNAPL fraction trends, rebound behavior, vacuum distribution, and vapor/liquid handling requirements.

Across VEFR events completed to date, recoverable LNAPL has been confirmed in multiple wells, with repeated short-term reductions in apparent thickness following recovery. Declining LNAPL concentrations during events is consistent with initial product recovery from the wellbore and near-well formation followed by increasing water fraction as local product availability is temporarily reduced. Documented rebound following some events indicates ongoing formation recharge and supports repeated events and/or transition to sustained multi-well operations where capture objectives warrant. Cumulative approximate VEFR removals from December 8, 2025 through January 9, 2026 are summarized in Inset Table 2, below. As discussed previously, the VEFR program is ongoing will continue pending LNAPL recovery results.

Inset Table 2: VEFR Interim Remedial Measure (IRM) Summary by Well

Well ID	# VEFR events	Total fluids removed (gal)	Estimated LNAPL removed (gal)
MW-2	11	982	501
MW-6	1	30	5
MW-7	3	191	72
MW-8	3	210	77
MW-9	5	241	42
TOTAL	23	1,654	697

Hand bailing/pumping of the wells in the Tank 708 area began on January 6, 2026, resulting in an additional 60 gallons of LNAPL removed.

As part of the VEFR implementation, the wells are gauged to track water levels, product interface depths, and apparent LNAPL thickness over time. Gauging is completed prior to VEFR to establish baseline conditions and following VEFR to quantify response. Short-term rebound behavior is evaluated to support interpretation of connectivity and recoverability. Well construction, survey data, and gauging information collected on January 5, 2026 is presented in Attached Table 1.

4.4 Proposed Well Installation Program

The initial planned well installation program (approximately 25 proposed additional locations) is designed to: (i) delineate LNAPL extent along the bedrock surface and confirm plume margins; (ii) establish receptor-focused control points west of MW-9 and at other potential discharge

features; and (iii) install wells suitable for multi-well VEFR/DPE operation where depth to groundwater and formation conditions are consistent with potential recovery. The primary areas for the well placement are for:

- Recovery within the Tank 708 source area;
- Priority investigation/receptor control west of MW-9, including additional downgradient and cross-gradient points; and
- Expanded assessment of the excavation seep area.

Additional planned activities to support the well installation program include:

- Updated survey control to support groundwater contouring, bedrock surface interpretation, and corrected thickness calculations.
- Seismic/geophysical study to map bedrock topography and identify preferential pathways; target wells in interpreted troughs and transmissive zones.

5. OFFSITE VAPOR INTRUSION INVESTIGATION

The VI Plan is outlined in the following section. It should be recognized that the key indicators of a potential for VI pathways are the location of the source relative to the potential receptors. The VI Plan and pathways will continue to be evaluated consistent with the Land Recycling Program Technical Guidance Manual (TGM), Section IV (or the "VI TGM"), as described herein.

To evaluate potential VI sources, soil and groundwater results received to date from subsurface investigations related to the gasoline release are compared to the PA Act 2 Statewide Health Standard VI Screening Values for Soil and Groundwater (SV_{SOIL} and SV_{GW}), reduced by a factor of 10 in accordance with the Site-Specific Standard (SSS) protocol for VI assessment per the PADEP VI TGM. As reported in the 2nd Weekly Progress Report submitted to PADEP on January 6, 2026 (see Tables 2 and 3 and Attachments 2 and 3 in the copy of the PADEP weekly report included as Attachment 2 of this plan), exceedances of the most conservative residential SV_{SOIL} or SV_{GW} were detected in only one of the soil samples and one of the groundwater samples collected and analyzed by Langan in December 2025. The one soil sample was collected from the soil boring installed at MW-13 prior to well installation, and the one groundwater sample was collected from MW-4 (south of the on-site LNAPL occurrence/recovery area).

No occupied structures are located within at least 250 feet of locations with observed LNAPL or soil or groundwater sample locations with SV_{SOIL} or SV_{GW} exceedances (see Figure 2). Based on the results of the corrected groundwater gauging activities, the groundwater flow direction is to the general south. However, the area west of MW-9 requires delineation to calculate distance from source to receptor. In addition, the utility service to the residences west of the site is likely from Chichester Street, reducing the potential for preferred pathways extending from the site westerly property line.

Further evaluation is needed and planned to assess potential VI sources and pathways in the direction of select properties immediately west of the known area of release, as further discussed below.

5.1 Potential VI Source Investigation

Monitoring wells are to be installed west of the northwestern perimeter fenceline at potentially affected properties for which MIPC is actively pursuing access. At these western adjoining properties, monitoring wells will be installed and sampled to support plume delineation and to facilitate soil and groundwater sampling for purposes of evaluating whether a potential VI source and/or pathway exists at any potentially affected property.

Offsite well installation activities are scheduled to commence as early as the week of January 12, 2026, pending access and issuance of Delaware County Health Department (DCHD) well installation permits.

Potentially affected properties of interest were prioritized based on the known on-site occurrence of LNAPL and dissolved phase constituents. Onsite monitoring wells MW-3, MW-5, MW-10, MW-11, and MW-12 do not have measurable LNAPL, field indications of impact (e.g., PID readings, odors, staining), or compounds of concern present at concentrations above the PA Act 2 Groundwater MSCs for a Residential, Used Aquifer (TDS <2500). Therefore, as a conservative measure, a monitoring well is proposed to be installed at each of the potentially affected parcels adjoining the western boundary of the facility to the north of MW-5 and south of MW-10. The wells are proposed to be installed between the western perimeter fenceline and the occupied structure consistent with the PADEP VI TGM.

Potential VI sources will be assessed in accordance with the PADEP VI TGM. Specifically, the presence of Separate Phase Liquid (SPL) constitutes a potential VI source, and soil and groundwater results will be compared to the PA Act 2 Residential Statewide Health Standard VI Screening Values for Soil and Groundwater (SV_{SOIL} and SV_{GW}), respectively, to determine the potential for VI from these media. These values will be reduced by a factor of 10 for compounds that will be remediated to attain the site-specific standard, per the TGM. Preferential pathways will be assessed and considered as part of the VI evaluations, as will horizontal and vertical proximity distances for petroleum substances and petroleum LNAPL.

For each of the targeted offsite properties, if a potential VI source is present (i.e., if Separate Phase Liquid (SPL) or LNAPL is encountered or if there are detection(s) of compound(s) of concern above the applicable soil and/or groundwater SV_{SOIL} and SV_{GW}), a near-source soil gas sample will be collected from a semi-permanent vapor monitoring point to be installed at a location proximal to the monitoring well.

As the potential VI source is groundwater from plume migration, any near-source soil gas samples will be collected within one foot of the top of the capillary fringe, per the PA Act 2 VI TGM. Samples will be collected from a minimum depth of 5 feet below ground surface (bgs). Although not expected, if the capillary fringe occurs within the upper 5 feet, an alternate method of VI evaluation (e.g., sub-slab soil gas sampling) will be considered.

A second round of near-source soil gas sampling will be completed for confirmatory purposes, at least 45 days after the first round of sampling, in accordance with the PA Act 2 VI TGM.

5.2 QA/QC Measures

If soil gas sampling is completed, the near-source soil gas points will be purged using an air pump calibrated to a rate less than 200 milliliters per minute (mL/min). The targeted purge volume for each point will be about three-times the volume of the total sampling system. PID readings will be collected from the pump outlet during soil gas point purging, and weather data (e.g., barometric pressure, temperature, wind direction/speed) will be collected during sampling.

A shut-in test will be conducted for each vapor monitoring point prior to sample collection to assess sample train tightness, and a helium check will be conducted using a shroud to assess potential leaks. If potential leaks are detected, or if water is drawn into the sample train, the vapor monitoring point will be assessed and reconstructed as needed.

5.3 Sampling and Analysis

Soil gas samples, if determined necessary, will be collected over a duration of 15 minutes into laboratory-provided and certified clean Summa canisters equipped with flow controllers calibrated to less than 200 mL/minute. Soil gas samples will be analyzed by a PA-certified laboratory via U.S. EPA Method TO-15 for PADEP-defined unleaded gasoline parameters.

5.4 Determination for Further VI Evaluation

Near-source soil gas results will be compared to the PA Act 2 Residential Statewide Health Standard VI Screening Values for Near-Source Soil Gas (SV_{NS}), reduced by a factor of 10 for compounds attaining the Act 2 SSS. If exceedance(s) of the SV_{NS} are detected in a sample, further assessment of the potential VI pathway is warranted and may consist of collecting additional near-source soil data sufficient for applying screening tests, conducting sub-slab soil gas sampling and/or indoor air sampling, completing a VI risk assessment, or installation of a vapor mitigation system, in accordance with the PADEP VI TGM.

5.5 Determination for VI Mitigation

If findings of the vapor intrusion investigation described above indicate that an unacceptable VI risk is posed to a receptor (i.e., that there is a complete or potentially complete vapor intrusion pathway), VI mitigation will be implemented. Typical types of VI mitigation can include system passive sub-slab venting systems or active sub-slab depressurization systems (SSDS). Activity and Use Limitations (AULs) related to VI mitigation may be recorded in an Environmental Covenant, as required.

6. INTERIM REMEDIAL ACTION MEASURES AND CONCEPTUAL SCHEDULE

6.1 Scheduling Strategy

Near-term work will proceed on parallel tracks to maintain continuous risk reduction while accelerating characterization and design. VEFR will continue as a priority interim remedial

measure for LNAPL bearing wells while the well installation program advances to establish plume boundaries, potential migration pathways, and future extraction nodes.

A multi-well pilot (e.g., three wells or more concurrently) will also be used to quantify achievable vacuum distribution, vapor flow, and liquid recovery under controlled operating conditions. Pilot results will inform well spacing, lateral placement, and system component sizing (vacuum conveyance, knockout pot capacity, skimming components, vapor treatment media, and extracted fluid management).

Source-area (Tank 708 release area and surrounding area) actions will be advanced in parallel where conditions warrant and are conducive to enhancing recovery, including skimming for persistent product, evaluation of soil vapor extraction (SVE) in the Tank 708 berm/source area (including deeper intervals where indicated), and consideration of passive mechanisms (e.g., barometric pumping or other) as a supplement to active systems.

6.2 Proposed Interim Remedial Action Schedule

In the near term as begun the week of January 5, field efforts are focused on:

- (i) continued VEFR operations and gauging to document recovery effectiveness and LNAPL rebound behavior;
- (ii) prioritized installation of delineation/observation/recovery wells in the mapped target areas; and
- (iii) initiation of a multi-well pilot (e.g., three or more wells concurrently) to quantify achievable vacuum distribution, liquid/vapor recovery rates, and treatment/control requirements. Subsequent weeks will expand edge control west of MW-9, evaluate the former springhouse/seep area, complete survey updates, and implement bedrock-topography mapping (geophysics) to evaluate the potential influence of weathered bedrock and bedrock surface on LNAPL behavior and pathways.

The near-term program is structured to maintain recover LNAPL to reduce the potential for further migration while accelerating data acquisition and remedy design. Work will proceed in parallel workstreams:

- (A) interim recovery and hydraulic/migration control;
- (B) delineation and CSM refinement; and
- (C) remedy optimization pilots to transition from single-well VEFR to multi-well VEFR/DPE laterals with defined vapor and liquid controls.

The projected sequence and data gathering that will be incorporated in regular progress updates and reports are summarized in Inset Table 3, below. This conceptual schedule will be regularly assessed and refined as new data and information are obtained and evaluated.

Inset Table 3: Projected Interim Remedial Work Plan and Timeline
(subject to field conditions and PADEP coordination)

Timeframe	Workstream A: Interim Recovery / Control	Workstream B: Investigation / Data	Deliverables
Week 1 (start Jan 5)	Continue VEFR on priority wells; prepare multi-well pilot configuration and controls	Survey control updates; finalize installation targets; utility clearance	Updated IRM status and field logs
Week 2	Initiate multi-well pilot operations; quantify vacuum distribution and recovery response	Commence installation of initial delineation/remedial wells (subset of ~25, including receptor-side points west of MW-9)	Pilot start-up summary; updated gauging set
Weeks 3-4	Operate/optimize pilot; expand edge control; evaluate skimming candidates	Continue staged well installs; springhouse/seep assessment; groundwater sampling at new control points	Interim performance summary; preliminary CSM update
Weeks 5-6	Transition to optimized DPE laterals where supported (depth to GW < ~30 ft bgs where feasible)	Geophysical survey to map bedrock topography and preferential pathways; target follow-up wells	Bedrock interpretation description; updated well placement plan
Weeks 7-8	Stabilize extraction configuration and controls; refine vapor/liquid handling requirements	Additional offsite/sentinel wells as warranted; MNA indicator sampling; evaluate push-pull pilot feasibility	Updated write-ups supporting remedy selection/design

FIGURES

ATTACHED TABLES

ATTACHMENTS

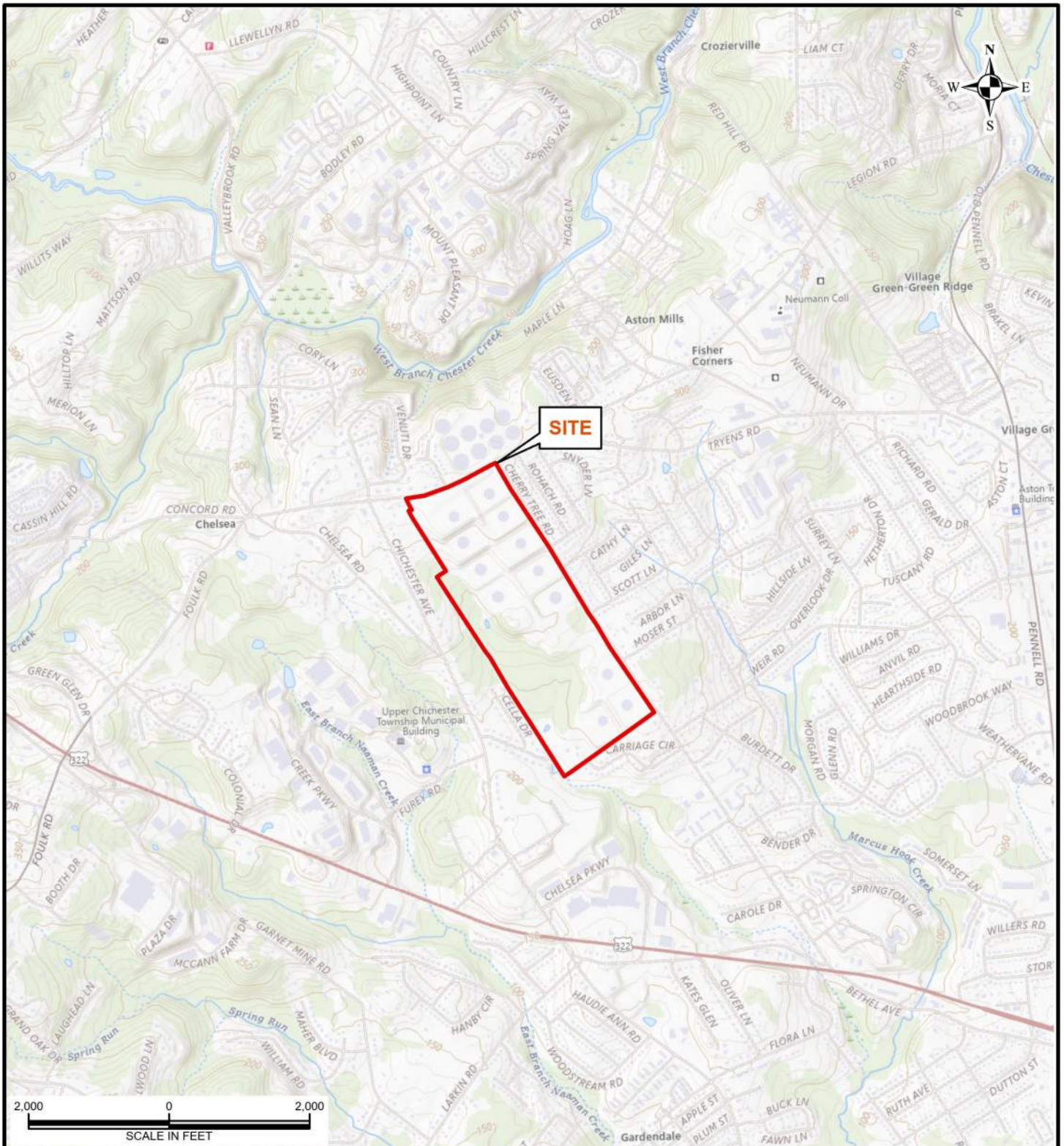
ATTACHMENT 1

WTU Application with Flow Process Diagram and
PADEP Temporary Discharge Approval Letter

ATTACHMENT 2

Copy of 2nd Weekly Progress Report

FIGURES



Notes:
 1. Marcus Hook USGS Quadrangle Map
 Topographic basemap is provided through Langan's Esri
 ArcGIS software licensing and ArcGIS online
 Copyright: © 2013 National Geographic Society, i-cubed.

Legend

Site Boundary

LANGAN

Langan Engineering and
Environmental Services, LLC

1818 Market Street, Suite 3300
Philadelphia, PA 19103-3638

T: 215.845.8946 F: 215.845.8901
www.langan.com

Project

MIPC CHELSEA FACILITY

920 CHERRY TREE ROAD
ASTON TOWNSHIP

COUNTY

STATE

Drawing Title

SITE LOCATION MAP

Project No.

220240201

Date

1/12/2026

Scale

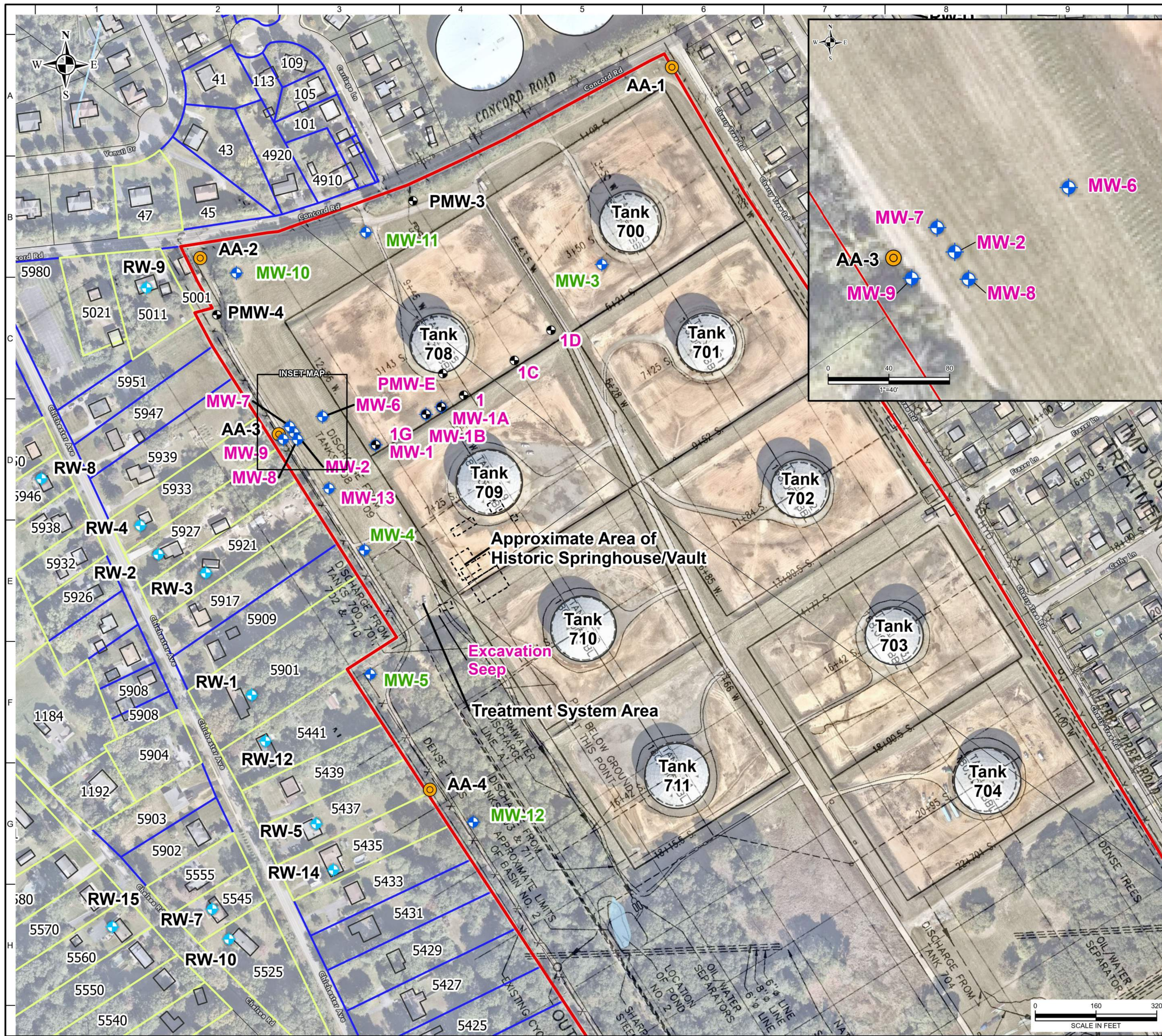
1"=2,000'

Drawn By

CH

Figure

1



- Legend**
- Approximate Soil Boring Location (Envirosure, Nov. 2025)
 - Approximate Monitoring Well Location (Envirosure, Nov-Dec 2025)
 - Approximate Private Potable Well Location Sampled by Langan
 - Air Monitoring Station Location
 - Historic Site Feature
 - Site Boundary
 - Structure
 - Lake/Pond
 - Stream
 - Parcel Boundary

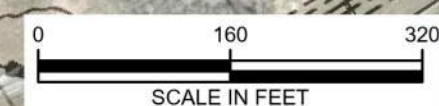
- Notes:**
- Green Sample ID - No LNAPL Encountered in Well/Boring
 - Pink Sample ID - LNAPL Encountered in Well/Boring
- All site feature locations are approximate.
 - Imagery provided through Langan's subscription to Nearmap.com. Flown 10/9/2025.
 - Basemap overlay is "Figure 1 Site Drainage Plan" drafted by Weston Solutions.
 - Parcel boundaries are provided by the Delaware County Office of Data and Mapping Innovation (ODMI).
 - Monitoring well and soil boring locations per survey data provided by EnviroSure.
 - Streams and waterbodies are provided by the National Hydrography Dataset (NHD).
 - Structure outlines provided by the Federal Emergency Management Agency (FEMA) Geospatial Response Office and Oak Ridge National Laboratory (ORNL).
 - Sources of information for properties not serviced by CWA are CWA correspondence in December 2025 and responses from property owner water use questionnaires.

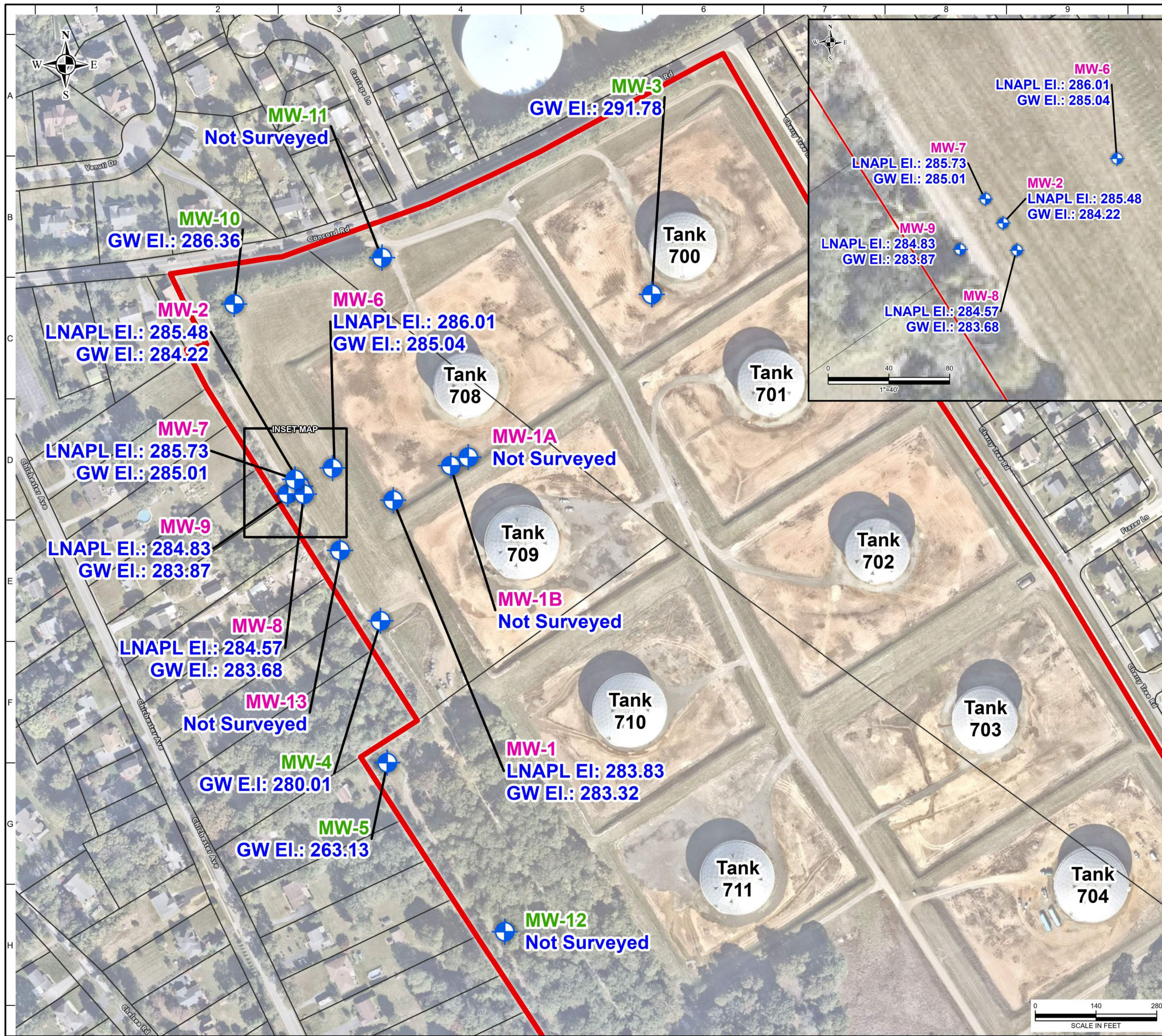
LANGAN
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Project
MIPC CHELSEA FACILITY
920 CHERRY TREE ROAD
ASTON TOWNSHIP
DELAWARE COUNTY PENNSYLVANIA

SITE PLAN WITH WELL AND BORING LOCATIONS

Project No.	220240201	Figure	2
Date	1/12/2026		
Scale	1"=160'		
Drawn By	CH		





LANGAN
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Project
MIPC CHELSEA FACILITY
920 CHERRY TREE ROAD
ASTON TOWNSHIP
DELAWARE COUNTY PENNSYLVANIA
Drawing Title

GROUNDWATER AND LNAPL ELEVATIONS (JANUARY 5, 2026)

Project No.	Figure
220240201	3
Date	
1/12/2026	
Scale	
1"=140'	
Drawn By	
CH	

Path: \\langan.com\data\PH\data\220240201\Project Data\GIS\APR\220240201\220240201.aprx Date: 1/12/2026 User: challman Time: 11:41 AM

ATTACHED TABLES

Table 1

Well Construction and Groundwater Gauging Data Summary: January 5, 2026

Blank Rome LLP, on behalf of MIPC

920 Cherry Tree Road, Aston Township, Delaware County, Pennsylvania 19014

Project No.: 220240201

Date1/5/2026

SiteMIPC Chelsea Facility - Aston, PA

PersonnelRyan Hall

Well ID	Well Construction						Gauging Data				Survey Elevations				Comments
	PVC Casing Diameter (inches)	Surface Completion	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	Screen Length (ft)	Total Well Depth (ft bgs)	Depth to Product (ft btoc)	Depth to Water (ft btoc)	Apparent Product Thickness (ft)	Corrected Depth to Groundwater (ft btoc)*	TOC Survey Elevation (ft NAVD 88)	Bottom of Well Elevation (ft NAVD 88)	Product Elevation (ft NAVD 88)	Groundwater Elevation (ft NAVD 88)	
MW-1	2	Stick-up Casing	25	45	20	45	41.5	43.2	1.70	42.01	325.33	280.33	283.83	283.32	
MW-1A	4	Stick-up Casing	26	46	20	46	35.75	43.90	8.15	38.20	NS	NS	NS	NS	Gauged pre-development
MW-1B	4	Stick-up Casing	27	47	20	47	38.95	39.89	0.94	39.23	NS	NS	NS	NS	Gauged pre-development
MW-2	4	Stick-up Casing	11	31	20	31	21.71	25.91	4.20	22.97	307.19	276.19	285.48	284.22	
MW-3	2	Stick-up Casing	21	41	20	41	NP	28.30	NP	NA	320.08	279.08	NP	291.78	
MW-4	4	Flushmount	4	24	20	24	NP	4.84	NP	NA	284.85	260.85	NP	280.01	
MW-5	4	Flushmount	3	15	12	15	NP	5.55	NP	NA	268.68	253.68	NP	263.13	
MW-6	4	Flushmount	14	34	20	34	26.44	29.66	3.22	27.41	312.45	278.45	286.01	285.04	
MW-7	4	Stick-up Casing	10	30	20	30	22.05	24.46	2.41	22.77	307.78	277.78	285.73	285.01	
MW-8	4	Stick-up Casing	10.5	30.5	20	30.5	21.8	24.77	2.97	22.69	306.37	275.87	284.57	283.68	
MW-9	4	Stick-up Casing	10.5	30.5	20	30.5	22.57	25.77	3.20	23.53	307.40	276.90	284.83	283.87	
MW-10	4	Stick-up Casing	22	42	20	42	NP	38.0	NP	NA	324.36	282.36	NP	286.36	
MW-11	4	Stick-up Casing	19	39	20	39	NP	40.7	NP	NA	NS	NS	NP	NS	
MW-12	4	Stick-up Casing	3	15	12	15	NP	9.92	NP	NA	NS	NS	NP	NS	
MW-13	4	Stick-up Casing	10	30	20	30	15.92	18.14	2.22	16.59	NS	NS	NS	NS	

Notes:

bgsBelow ground surface

btocBelow top of casing

ftFeet

IDIdentification

NAVD 88North American Vertical Datum of 1988

NANot applicable

NGNot gauged

NMNot measured

NPNo product

NSNot surveyed

TOCTop of casing

* Per US EPA guidance, depth-to-groundwater has been corrected to account for presence of gasoline Light Non-Aqueous Phase Liquid (LNAPL) using the formula: Corrected Depth-to-Water = Measured Depth-to-Water - (Product Thickness x Specific Gravity of Product). A specific gravity of 0.7 was used for gasoline product.

ATTACHMENTS

ATTACHMENT 1

WTU Application with Flow Process Diagram and
PADEP Temporary Discharge Approval Letter

September 9, 2025

Abdul Bamgbose
MIPC LLC
920 Cherry Tree Road
Aston, PA 19014-9997

Re: Temporary Discharge Approval
MIPC LLC - Chelsea Terminal
Application No. 2325202
Authorization ID No. 1540785
Upper Chichester Township, Delaware County

Dear Permittee:

This is in response to your letter dated September 3, 2025, requesting approval for a temporary discharge of treated groundwater containing petroleum-impacted constituents to Boozers Run in Marcus Hook Borough, Delaware County.

The Project is located at the MIPC LLC petroleum storage and pipeline facility. The discharge originates from groundwater collected beneath AST 709. Currently, this water is captured in a temporary basin, stored in a frac tank, and hauled offsite for disposal.

MIPC proposes installation of a temporary treatment system consisting of a sump tank (500–2,500 gallons), transfer to an 18,000-gallon weir tank, and treatment through bag filters and dual granular activated carbon (GAC) filters. Treated effluent will discharge into the existing AST dike stormwater collection system, equipped with oil/water separators and retention ponds, and ultimately to Outfall 002 under NPDES Permit No. PA0011231.

The system will operate for 3–6 months beginning September 9, 2025, with an average flow of 10 gpm and maximum batch discharge of 60 gpm.

We hereby approve your request to discharge the treated wastewater subject to the following:

1. If the details of the discharge described above are significantly changed, this temporary discharge request is null and void, and the discharge is no longer authorized by this approval. Significant changes include but are not limited to: new pollutants not previously identified in the request; or a significant increase to the concentration of pollutants or volume of wastewater treated.
2. Notify the Department of Environmental Protection (DEP) Southeast Regional Office's Operations Section 24 hours prior to commencing discharge at rbauer@pa.gov or 484.250.5970
3. Permission to discharge to sanitary sewers adjacent to the site has been denied by the sanitary sewer system owner.

4. The discharge must comply with the following effluent limitations and monitoring requirements:

Effluent Limitations and Monitoring Requirements:

Parameter	Average Values (ug/l)	Inst. Maximum (ug/l)
Benzene	1.0	2.5
Total BETX*	100	250
Ethylbenzene	Monitor only	Monitor only
Toluene	Monitor only	Monitor only
Total Xylenes	Monitor only	Monitor only
MTBE	Monitor only	Monitor only
1,2,4 - Trimethylbenzene	Monitor only	Monitor only
1,3,5 - Trimethylbenzene	Monitor only	Monitor only
pH (STD Units)	6.0-9.0 STD units at all times	

* Total BETX shall be measured as the sum of Benzene, Ethylbenzene, Toluene, and Xylene. Benzene shall be measured by an Environmental Protection Agency (EPA) approved method with a sensitivity of 0.001 mg/l or lower. Ethylbenzene, Toluene, and Total Xylenes shall be measured by an approved EPA method.

Influent and effluent samples shall be collected and analyzed for the parameters listed above. At least one representative sample shall be taken within 2 hours of startup and **weekly** thereafter until discharge ceases.

5. Monthly monitoring results shall be submitted within 28 days after completion of discharge to:

Pennsylvania Department of Environmental Protection
Clean Water Program, Operations Section
2 East Main Street
Norristown, PA 19401

Or rbauer@pa.gov

6. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance, and replacement of all works associated with the

herein approved discharge in, along, or across private property, with full rights of ingress, egress, and regress

7. In the event of any adverse effects to the receiving stream or aquatic life, both the Department and the Pennsylvania Fish and Boat Commission shall be notified immediately.
8. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this approval. Permittee shall provide any additional treatment(s) required to meet the requirements of this approval.
9. This discharge shall not induce erosion of the ground surface, banks or streambed; appropriate erosion and sedimentation controls shall be installed. Water shall be discharged through an energy dissipater at a controlled rate to minimize erosion.
10. The discharge shall comply with the Department's narrative surface water criteria outlined in 25 PA Code § 92a.41(c), § 92a.47(a)(7), § 95.2(2), and § 93.6(a).
11. All tests or analysis of environmental samples used to demonstrate compliance with this approval shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 and 25 PA Code Chapter 252, relating to environmental laboratory accreditation.
12. Test procedures (methods) for the analysis of pollutants shall be those approved under 40 CFR Part 136, unless an alternative method is specified in this approval or has been otherwise approved in writing by DEP.
13. Test procedures (methods) selected for the analysis of pollutants shall be sufficiently sensitive. A sufficiently sensitive test method is a test method which has an analytical reporting level set at or below the level of effluent limits established in this approval.
14. If the temporary discharge authorized by this approval does not comply with all conditions outlined herein, the discharge constitutes an unpermitted discharge and is subject to all penalty provisions under the Clean Streams Law.

This letter does not waive, either expressly or by implication, the power or authority of the Commonwealth of Pennsylvania to prosecute for any and all violations of law arising prior to or after the issuance of this letter or the conditions upon which this letter is based. This letter shall not be construed so as to waive or impair any rights of the Department, heretofore or hereafter existing.

This approval shall expire 180 days from issuance of this letter. Any significant changes in your proposed procedure must receive prior approval from DEP. If required, request for extension of

Ms. Abdul Bamgbose

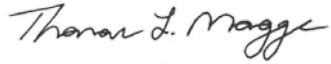
- 4 -

September 9, 2025

this approval shall be submitted at least 30 days in advance of expiration. The request shall contain summary of all effluent sample results conducted during this approval period.

If you have questions, please contact Vasantha Palakurti at vpalakurti@pa.gov or 484.250.5198.

Sincerely,



Thomas L. Magge
Environmental Program Manager
Clean Water Program
Southeast Regional Office

Enclosures

cc: Mr. Pilcher, Westin Solutions, Inc.
Upper Chichester Township
Operations Section
File



Weston Solutions, Inc.
1400 Weston Way
West Chester, PA 19380
610-701-3000
WestonSolutions.com

3 September 2025

Ms. Sara Abraham
PADEP Clean Water Program
Southeast Regional Office
2 East Main Street
Norristown, PA 19401

Re: Temporary Discharge Authorization Request - NPDES Permit No. PA0011231
MIPC, LLC
Chelsea Station
920 Cherry Tree Road
Aston Township, PA 19014

Dear Ms. Abraham:

This correspondence is a request for Temporary Discharge Authorization (TDA) of treated water to the existing drainage system for the Above Ground Storage Tank (AST) dike system at the referenced property (Property). The Property is located at the approximate coordinates of 39° 51' 54.29" N by 75° 27' 25.73" W. The location of the Property is illustrated on the attached Figure 1 – Site Location Map.

The Property is an industrial property operated as a refined petroleum products pipeline manifold and breakout tank storage facility. Currently, there are twelve breakout tank ASTs present at the Site, located as shown on the attached Figure 2 – Property Plan.

On Monday, August 18, 2025, during routine Property inspections, MIPC observed water with petroleum odors discharging from a 12" diameter concrete drainage pipe into a swale located to the southwest of AST 709 (See Figure 2). Upon investigation, MIPC discovered that the pipe drains groundwater/spring water from beneath AST 709 and discharges to a swale, which also collects storm water on the Property. MIPC immediately deployed oil absorbent booms to capture any sheens and intercepted the flow of water from this pipe by excavating and installing a collection basin near and outside of the southern corner of the AST 709 dike. Currently, water is collected from this pipe in a temporary basin and continuously extracted with vacuum trucks, stored onsite in a 20,000-gallon frac tank, and then transported offsite for proper treatment/disposal. The estimated average flow from the pipe is 5 gallons per minute (gpm) of water with approximately 1 to 2% hydrocarbons. Preliminary water sample analytical results indicate that the water contains unleaded gasoline constituents.

MIPC plans to install a temporary water treatment system to collect the water discharging from the pipe, treat it, and discharge it to the existing AST dike stormwater collection system. This existing dike stormwater collection system includes oil/water separators and retention ponds with inverse dam outlets. This existing system discharges to Outfall 002 under NPDES Permit No. PA0011231.

The water discharging from the concrete pipe will be collected in a sump tank (approximately 500 to 2,500 gallons (TBD)), pumped using float controlled submersible pumps to a larger 18,000 gallon weir tank,

Trust. Performance. People.

Act with Integrity • Live Safely • Advance Client Success • Deliver Exceptional Quality • Be Inclusive • Create a Better World; Be the Change



Ms. Sara Abraham
PADEP Clean Water Program

2

3 September 2025
MIPC LLC Chelsea Station

then pumped in batches from the weir tank through bag filters and granular activated carbon (GAC) filters in a series of two prior to discharge to the AST dike stormwater collection system. The GAC filters will be sized for an appropriate mass of GAC to ensure appropriate contact time and reasonable changeout intervals. The two series carbon filtration setup will allow changeout of the first vessel set upon breakthrough and reconfiguration of flow through the second set first and the newly changed out set second. A level pad for the weir tank and filtration system will be created using clean imported gravel. Erosion and sediment control measures including compost filter socks and vegetative stabilization will be installed in accordance with the PA DEP Chapter 102 Program Manual. The limit of disturbance will be minimized to the extent practicable to stay within PADEP, County, and Township limits of disturbance. The temporary collection basin area will be restored and stabilized.

A process flow diagram illustrating the treatment process is included on the attached Figure 3 – Process Flow Diagram. The anticipated average flow is 5 to 10 gpm and the batch treatment flow from the 18,000-gallon weir tank through the bag filters and GAC will not exceed 60 gpm. The anticipated duration of operation of the temporary treatment system is 3 to 6 months. The anticipated system start date is September 8, 2025.

MIPC will collect the necessary and appropriate influent and effluent samples during the pumping activities to comply with the TDA monitoring requirements. It is anticipated that the effluent water samples will be analyzed for the PADEP PAG-05 NPDES unleaded gasoline parameters. MIPC will report the results in accordance with TDA requirements.

Based on the Google Earth Pro program and the USGS “Marcus Hook, Pennsylvania” 7.5-minute topographic quadrangle map, the Property elevation ranges from approximately 180 to 325 feet above mean sea level. As indicated by topographic mapping, Google Earth Pro, and field observation, the Property slopes moderately downward to the southeast. Stormwater from the Property discharges to Boozers Run at the southern corner of the Property and runs southeast to Marcus Hook Creek approximately 5,900 feet from the southeast side of the Property.



Ms. Sara Abraham
PADEP Clean Water Program

3

3 September 2025
MIPC LLC Chelsea Station

The original temporary discharge approval letter can be mailed to the MIPC representative at the following address:

Mr. Abdul Bamgbose
MIPC
920 Cherry Tree Road
Aston Township, PA 19014
Abdul.Bamgbose@monroe-energy.com

The project consultant is:

Mr. Brian R. Evans
Weston Solutions, Inc.
1400 Weston Way
PO Box 2653
West Chester, PA 19380
Brain.Evans@WestonSolutions.com

If you have any questions or require additional information, please do not hesitate to contact Brian Evans at 610-554-4711.

Very truly yours,
WESTON SOLUTIONS, INC.

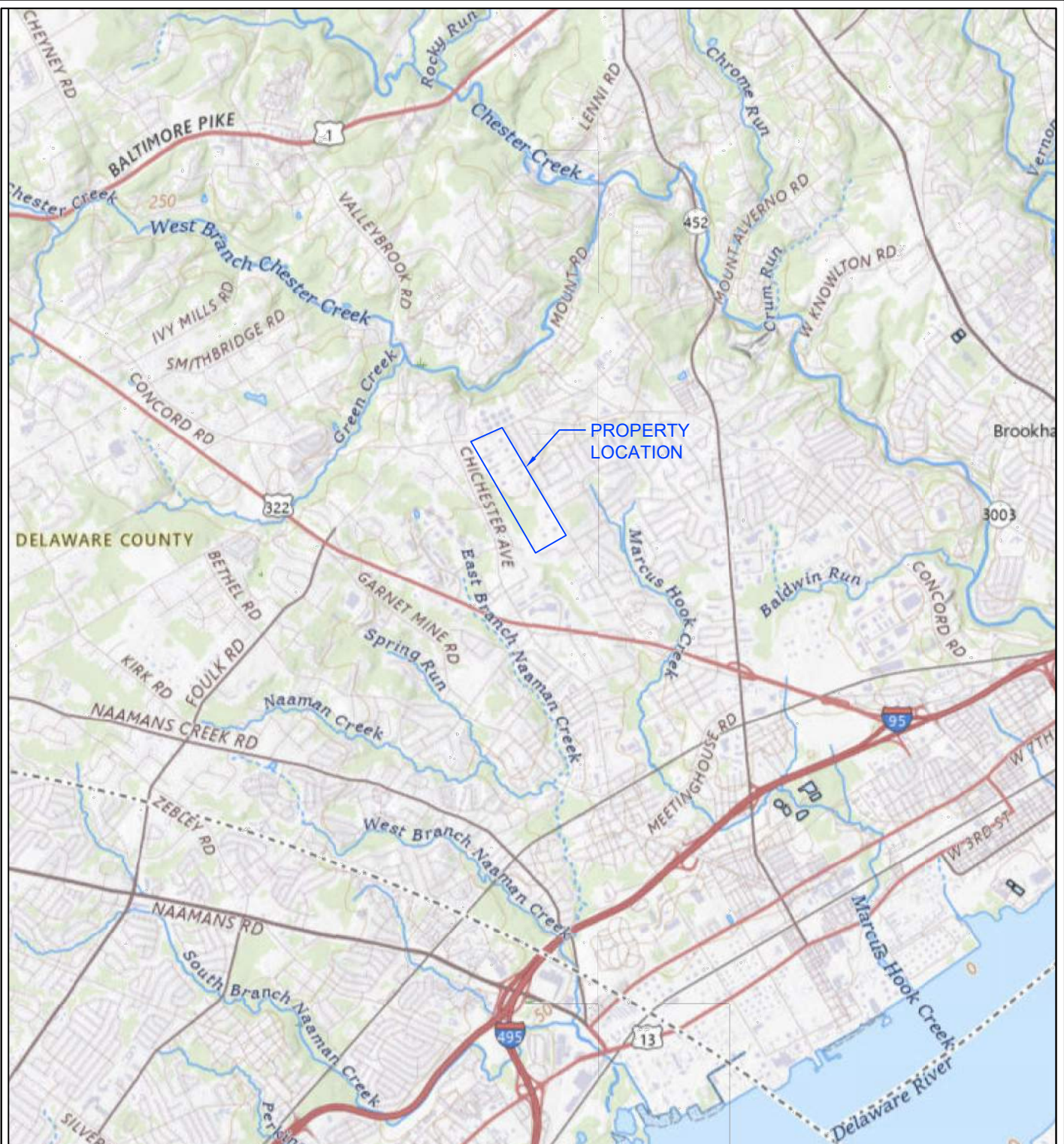
A handwritten signature in black ink, appearing to read "Brian R. Evans".

Brian R. Evans
Senior Project Manager

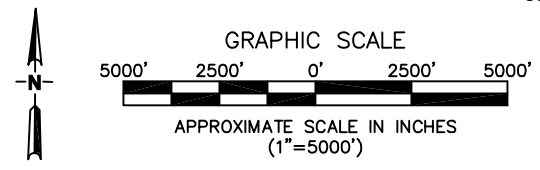
A handwritten signature in black ink, appearing to read "Timothy J. Pilcher".

Timothy J. Pilcher, P.E.
Senior Project Engineer

cc: Mr Abdul Bamgbose (MIPC)



SOURCE: USGS NationalMap.gov Viewer



MIPC
920 CHERRY TREE RD, ASTON TWP, PA

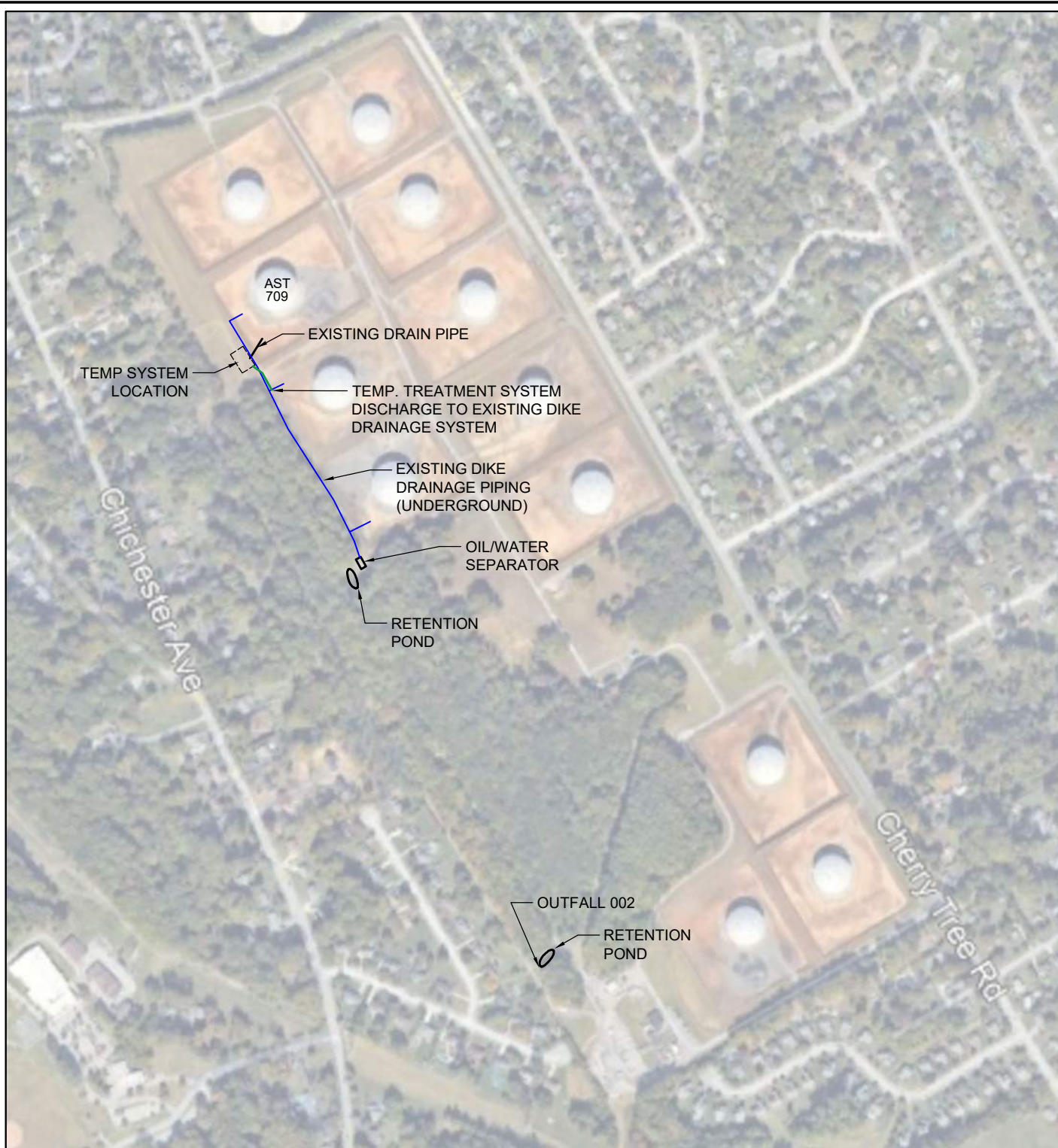


FIGURE 1
PROPERTY LOCATION MAP

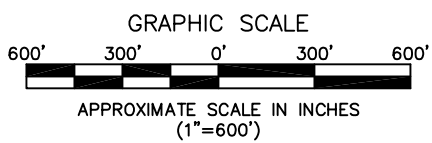
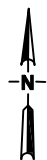
DATE: 2025/08/29

ENG: TJP

DRAWN BY: TJP



SOURCE: Google Earth Pro (06/2023)



MIPC
920 CHERRY TREE RD, ASTON TWP, PA



FIGURE 2 PROPERTY PLAN

DATE: 2025/09/03

ENG: TJP

DRAWN BY: TJP

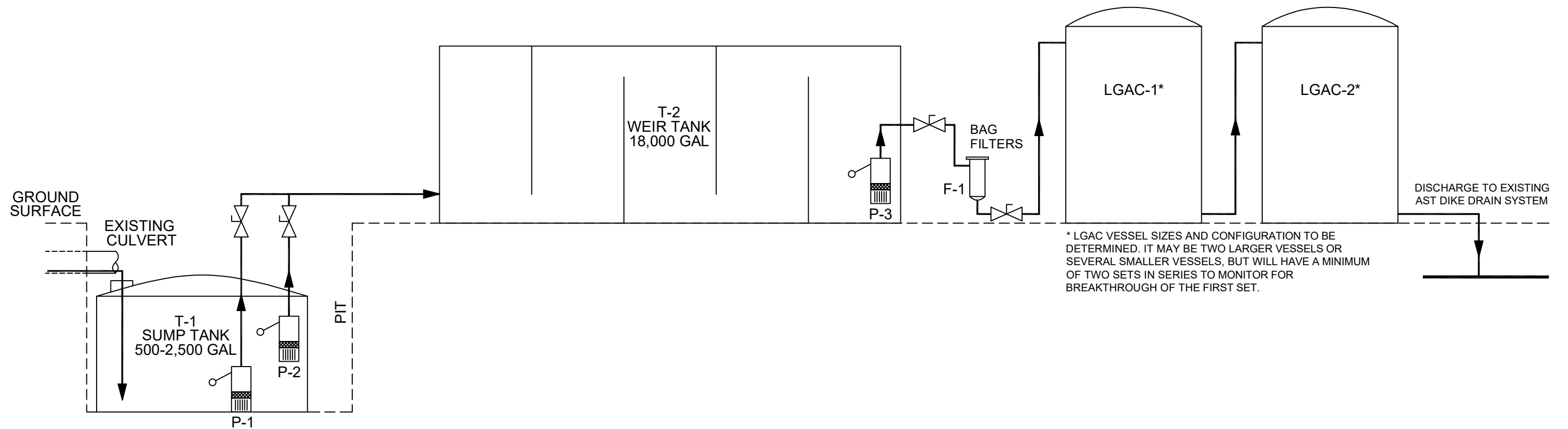


FIGURE 3

MIPC 920 CHERRY TREE ROAD ASTON TOWNSHIP, PA		PROCESS FLOW DIAGRAM DRAIN WATER TEMPORARY TREATMENT SYSTEM				
		DRAWN TJP	DATE 09/02/25	DES. ENG. TJP	DATE 09/02/25	W.O. NO. ---
		CHECKED DRAFT	DATE ---	APPROVED ---	DATE ---	DWG. NO. 03



GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This form is used by the Department of Environmental Protection (DEP) to inform our programs regarding what other DEP permits or authorizations may be needed for the proposed project or activity. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the DEP.

Related ID#s (If Known)		DEP USE ONLY
Client ID#	139010	Date Received & General Notes
Site ID#	502590	
Facility ID#	551823	

CLIENT INFORMATION

DEP Client ID#	Client Type/Code	Dun & Bradstreet ID#	
139010	LLC		
Legal Organization Name or Registered Fictitious Name		Employer ID# (EIN)	Is the EIN a SSN?
MIPC, LLC		45-5201987	☐ Yes ☒ No
State of Incorporation or Registration of Fictitious Name	☐ Corporation ☒ LLC ☐ Partnership ☐ LLP ☐ LP ☐ Sole Proprietorship ☐ Association/Organization ☐ Estate/Trust ☐ Other		
Delaware			
Individual Last Name	First Name	MI	Suffix
Additional Individual Last Name	First Name	MI	Suffix
Mailing Address Line 1		Mailing Address Line 2	
920 Cherry Tree Road			
Address Last Line – City	State	ZIP+4	Country
Aston	PA	19014	USA
Client Contact Last Name	First Name	MI	Suffix
Bamgbose	Abdul		
Client Contact Title	Phone	Ext	Cell Phone
DOT Environmental Engineer	484 816 3302		
Email Address	FAX		
abdul.bamgbose@monroe-energy.com			

SITE INFORMATION

DEP Site ID#	Site Name				
502590	Chelsea Pipeline Station and Tank Farm				
EPA ID#	Estimated Number of Employees to be Present at Site				
110046246932	25				
Description of Site					
Refined petroleum products storage and transfer facility.					
Tax Parcel ID(s): 090000-71901; 020000-27101; 030000-13300					
County Name(s)	Municipality(ies)	City	Boro	Twp	State
Delaware	Upper Chichester	☐	☐	☒	PA
Delaware	Aston	☐	☐	☒	PA
Delaware	Bethel	☐	☐	☒	PA

	☐	☐	☐	
Site Location Line 1	Site Location Line 2			
920 Cherry Tree Road				
Site Location Last Line – City	State	ZIP+4		
Aston	PA	19014		
Detailed Written Directions to Site				
From I-95, head west on US-322 W toward Bethel Ave. Turn right onto Cherry Tree Rd and MIPC will be on the left.				
Site Contact Last Name	First Name	MI	Suffix	
Bamgbose	Abdul			
Site Contact Title		Site Contact Firm		
DOT Environmental Engineer				
Mailing Address Line 1		Mailing Address Line 2		
920 Cherry Tree Road				
Mailing Address Last Line – City	State	ZIP+4		
Aston	PA	19014		
Phone	Ext	FAX	Email Address	
484 816 3302			abdul.bamgbose@monroe-energy.com	
NAICS Codes (Two- & Three-Digit Codes – List All That Apply)		6-Digit Code (Optional)		
424710; 486910				
Client to Site Relationship				
OWNOP				

FACILITY INFORMATION

Modification of Existing Facility		Yes	No
1.	Will this project modify an existing facility, system, or activity?	☐	☒
2.	Will this project involve an addition to an existing facility, system, or activity?	☒	☐
<i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i>			
Facility Type	DEP Fac ID#	Facility Type	DEP Fac ID#
☐ Air Emission Plant		☐ Industrial Minerals Mining Operation	
☐ Beneficial Use (water)		☐ Laboratory Location	
☐ Blasting Operation		☐ Land Recycling Cleanup Location	
☐ Captive Hazardous Waste Operation		☐ Mine Drainage Treatment / Land Recycling Project Location	
☐ Coal Ash Beneficial Use Operation		☐ Municipal Waste Operation	
☐ Coal Mining Operation		☐ Oil & Gas Encroachment Location	
☐ Coal Pillar Location		☐ Oil & Gas Location	
☐ Commercial Hazardous Waste Operation		☐ Oil & Gas Water Poll Control Facility	
☐ Dam Location		☐ Public Water Supply System	
☐ Deep Mine Safety Operation -Anthracite		☐ Radiation Facility	
☐ Deep Mine Safety Operation -Bituminous		☐ Residual Waste Operation	
☐ Deep Mine Safety Operation -Ind Minerals		☐ Storage Tank Location	
☐ Encroachment Location (water, wetland)		☐ Water Pollution Control Facility	
☐ Erosion & Sediment Control Facility		☐ Water Resource	
☐ Explosive Storage Location		☒ Other: Discharge Water Treatment	na

Latitude/Longitude Point of Origin	Latitude			Longitude							
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds					
	39	51	33	75	26	50					
Horizontal Accuracy Measure	Feet		--or--	Meters							
Horizontal Reference Datum Code	☐	North American Datum of 1927									
	☐	North American Datum of 1983									
	☒	World Geodetic System of 1984									
Horizontal Collection Method Code	GPS										
Reference Point Code	INPIP										
Altitude	Feet	237	--or--	Meters							
Altitude Datum Name	☐	The National Geodetic Vertical Datum of 1929									
	☒	The North American Vertical Datum of 1988 (NAVD88)									
Altitude (Vertical) Location Datum Collection Method Code											
Geometric Type Code	Point										
Data Collection Date											
Source Map Scale Number		Inch(es)	=		Feet						
	--or--	Centimeter(s)	=		Meters						

PROJECT INFORMATION

Project Name

Treated Water Temporary Discharge Authorization

Project Description

Temporary treatment of naturally discharging springwater/groundwater impacted with 1-2% hydrocarbon at the Site to NPDES Permit No. PA0011231 Outfall 002.

Project Consultant Last Name	First Name	MI	Suffix
Pilcher	Timothy	J	

Project Consultant Title	Consulting Firm
Senior Project Engineer	Weston Solutions, Inc.

Mailing Address Line 1	Mailing Address Line 2
302 Norton Road	

Address Last Line – City	State	ZIP+4
Stroudsburg	PA	18360

Phone	Ext	FAX	Email Address
570-856-9165			timothy.pilcher@westonsolutions.com

Time Schedules	Project Milestone (Optional)
9/8/25	Startup of water temporary treatment system
12/8/25 - 3/8/26	Shutdown of temporary water treatment system

1. Is the project located in or within a 0.5-mile radius of an Environmental Justice community as defined by DEP? ☒ Yes ☐ No

To determine if the project is located in or within a 0.5-mile radius of an environmental justice community, please use the [online PennEnviroScreen tool](#). To see specific EJ areas, select the appropriate year of your submittal from the themes box on the right.

2. Have you informed the surrounding community prior to submitting the application to the Department? ☐ Yes ☒ No

Method of notification: _____

3. Have you addressed community concerns that were identified? ☐ Yes ☐ No ☒ N/A

If no, please briefly describe the community concerns that have been expressed and not addressed.

4. Is your project funded by state or federal grants? ☐ Yes ☒ No

Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.

Aspect of Project Related to Grant _____

Grant Source: _____

Grant Contact Person: _____

Grant Expiration Date: _____

5. Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions) ☐ Yes ☒ No

Note: If "No" to Question 5, the application is not subject to the Land Use Policy.

If "Yes" to Question 5, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants should submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. Is there an adopted county or multi-county comprehensive plan? ☒ Yes ☐ No
2. Is there a county stormwater management plan? ☒ Yes ☐ No
3. Is there an adopted municipal or multi-municipal comprehensive plan? ☒ Yes ☐ No
4. Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance? ☒ Yes ☐ No

Note: If the Applicant answers "No" to either Questions 1, 3 or 4, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 5 and 6 below.

If the Applicant answers "Yes" to questions 1, 3 and 4, the Applicant should respond to questions 5 and 6 below.

5. Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation. ☒ Yes ☐ No
6. Have you attached Municipal and County Land Use Letters for the project? ☐ Yes ☒ No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 [at PHMC's online portal, PA-SHARE](#).

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

1.0	Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	☐ Yes	☒ No
1.1	Will this coal mining project involve coal preparation/processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?	☐ Yes	☐ No
1.2	Will this coal mining project involve coal preparation/processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?	☐ Yes	☐ No
1.3	Will this coal mining project involve coal preparation/processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?	☐ Yes	☐ No
1.4	For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	☐ Yes	☐ No
1.5	Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	☐ Yes	☐ No
1.6	Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?	☐ Yes	☐ No
2.0	Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	☐ Yes	☒ No
2.1	Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?	☐ Yes	☐ No
2.2	Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?	☐ Yes	☐ No
2.3	Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?	☐ Yes	☐ No
2.4	For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	☐ Yes	☐ No

2.5	Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	☐	Yes	☐	No
3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	☐	Yes	☒	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	☐	Yes	☐	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	☐	Yes	☐	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	☐	Yes	☐	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage.	☒	Yes	☐	No
4.0.1	Total Disturbed Acreage	<0.1			
4.0.2	Will the project discharge or drain to a special protection water (EV or HQ) or an EV wetland?	☐	Yes	☒	No
4.0.3	Will the project involve a construction activity that results in earth disturbance in the area of the earth disturbance that are contaminated at levels exceeding residential or non-residential medium-specific concentrations (MSCs) in 25 Pa. Code Chapter 250 at residential or non-residential construction sites, respectively?	☐	Yes	☒	No
5.0	Does the project involve any of the following: water obstruction and/or encroachment, wetland impacts, or floodplain project by the Commonwealth/political subdivision or public utility? If "Yes", respond to 5.1-5.7. If "No", skip to Question 6.0.	☐	Yes	☒	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	☐	Yes	☐	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	☐	Yes	☐	No

5.3	Floodplain Projects by the Commonwealth, a Political Subdivision of the Commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	☐	Yes	☐	No
5.4	Is your project an interstate transmission natural gas pipeline?	☐	Yes	☐	No
5.5	Does your project consist of linear construction activities which result in earth disturbance in two or more DEP regions AND three or more counties?	☐	Yes	☐	No
5.6	Does your project utilize Floodplain Restoration as a best management practice for Post Construction Stormwater Management?	☐	Yes	☐	No
5.7	Does your project utilize Class V Gravity / Injection Wells as a best management practice for Post Construction Stormwater Management?	☐	Yes	☐	No
6.0	Will the project involve discharge of construction related stormwater to a dry swale, surface water, ground water or separate storm water system?	☐	Yes	☒	No
6.1	Will the project involve discharge of industrial waste stormwater or wastewater from an industrial activity or sewage to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	☒	Yes	☐	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	☐	Yes	☒	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i>, where applicable.	☐	Yes	☒	No
8.0.1 Estimated Proposed Flow (gal/day)					
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	☐	Yes	☒	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	☐	Yes	☐	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year).	☐	Yes	☒	No
10.0.1	Gallons Per Year (residential septage)				
10.0.2	Dry Tons Per Year (biosolids)				

11.0 Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. ☐ Yes ☒ No

11.0.1 Dam
Name

12.0 Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam. ☐ Yes ☒ No

12.0.1 Dam
Name

13.0 Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? ☐ Yes ☒ No

13.0.1 If "Yes", is the operation subject to the agricultural exemption in 35 P.S. § 4004.1? ☐ Yes ☐ No

13.0.2 If the answer to 13.0.1 is "No", identify each type of emission followed by the estimated amount of that emission.

Enter all types & amounts of emissions;
separate each set with semicolons.

14.0 Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes," check all proposed sub-facilities. ☐ Yes ☒ No

14.0.1 Number of Persons
Served

14.0.2 Number of
Employee/Guests

14.0.3 Number of
Connections

14.0.4 Sub-Fac: Distribution System ☐ Yes ☐ No

14.0.5 Sub-Fac: Water Treatment Plant ☐ Yes ☐ No

14.0.6 Sub-Fac: Source ☐ Yes ☐ No

14.0.7 Sub-Fac: Pump Station ☐ Yes ☐ No

14.0.8 Sub-Fac: Transmission Main ☐ Yes ☐ No

14.0.9 Sub-Fac: Storage Facility ☐ Yes ☐ No

15.0 Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery? ☐ Yes ☒ No

16.0 Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project. ☐ Yes ☒ No

16.0.1 Supplier's Name

16.0.2 Letter of Approval from Supplier is Attached ☐ Yes ☐ No

17.0 Will this project be served by on-lot drinking water wells? ☐ Yes ☒ No

18.0 Will this project involve a new or increased drinking water withdrawal from a river, stream, spring, lake, well or other water bod(ies)? If "Yes," reference Safe Drinking Water Program. ☐ Yes ☒ No

18.0.1 Source Name

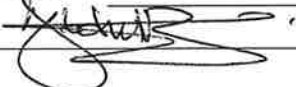
19.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes," indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	☒	Yes	☐	No
19.0.1	Type & Amount	Regenrated granular activated carbon. Amount TBD.			
20.0	Will your project involve the removal of coal, minerals, contaminated media, or solid waste as part of any earth disturbance activities?	☐	Yes	☒	No
21.0	Does your project involve installation of a field constructed underground storage tank? If "Yes," list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	☐	Yes	☒	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
22.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes," list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	☐	Yes	☒	No
22.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
23.0	Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes," list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	☐	Yes	☒	No
23.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
24.0	Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes," list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	☐	Yes	☒	No
24.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
NOTE: If the project includes the installation of a regulated storage tank system, including diesel emergency generator systems, the project may require the use of a Department Certified Tank Handler. For a full list of regulated storage tanks and substances, please go to www.dep.pa.gov search term storage tanks					
25.0	Will the intended activity involve the use of a radiation source?	☐	Yes	☒	No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

For applicants supplying an EIN number: I am applying for a permit or authorization from the Pennsylvania Department of Environmental Protection (DEP). As part of this application, I will provide DEP with an accurate EIN number for the applicant entity. By filing this application with DEP, I hereby authorize DEP to confirm the accuracy of the EIN number provided with the Pennsylvania Department of Revenue. As applicant, I further consent to the Department of Revenue discussing the same with DEP prior to issuance of the Commonwealth permit or authorization.

Type or Print Name Abdul Bamgbose

	DOT Environmental Engineer	09/04/2025
Signature	Title	Date



ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Evans
Weston Solutions Inc
1400 Weston Way PO BOX 2653
West Chester, Pennsylvania 19380

Generated 9/4/2025 12:56:06 PM

JOB DESCRIPTION

MIPC Aston, PA

JOB NUMBER

410-238564-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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9/4/2025 12:56:06 PM

Authorized for release by
Elizabeth Anthony, Project Mgmt. Assistant
elizabeth.anthony@et.eurofinsus.com
Designee for
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



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Definitions/Glossary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
!	Laboratory is not accredited for this parameter.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Weston Solutions Inc
Project: MIPC Aston, PA

Job ID: 410-238564-1

Job ID: 410-238564-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-238564-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/22/2025 4:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.9°C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: Effluent (410-238564-1). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation. This does not meet regulatory requirements.

A trip blank was not submitted for analysis with this sample shipment; and was not listed on the Chain of Custody (COC).

GC/MS VOA

Method 524.2_Preserved: Volatile compounds have been detected above the RL for the following sample: Effluent (410-238564-1). Since a field reagent blank/trip blank was not submitted, any potential contamination from the sampling/transport process cannot be assessed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.8 - Total Recoverable: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: Effluent (410-238564-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Client Sample ID: Effluent

Lab Sample ID: 410-238564-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2700	cn	250	50	ug/L	500		524.2	Total/NA
1,3,5-Trimethylbenzene	690	cn	250	50	ug/L	500		524.2	Total/NA
Benzene	16000	cn	250	50	ug/L	500		524.2	Total/NA
Ethylbenzene	3900	cn	250	50	ug/L	500		524.2	Total/NA
Isopropylbenzene	120	J cn	250	50	ug/L	500		524.2	Total/NA
Naphthalene	220	J cn	250	100	ug/L	500		524.2	Total/NA
Xylene (total)	29000	cn	250	50	ug/L	500		524.2	Total/NA
Toluene - DL	44000		2500	500	ug/L	5000		524.2	Total/NA
GRO (1C)	170000		25000	12000	ug/L	500		8015D	Total/NA
Iron	300		250	100	ug/L	1		200.8 Rev 5.4	Total Recoverable
Manganese	51		10	4.8	ug/L	1		200.8 Rev 5.4	Total Recoverable
Hardness as calcium carbonate	25	!	2.1	0.90	mg/L	1		2340B-2011	Total/NA
Mg	2.9	!	0.20	0.080	mg/L	1		2340B-2011	Total/NA
Ca	5.4	!	0.50	0.23	mg/L	1		2340B-2011	Total/NA
Total Dissolved Solids	59		10	5.0	mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	3.0		3.0	1.0	mg/L	1		2540D-2015	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Client Sample ID: Effluent

Lab Sample ID: 410-238564-1

Date Collected: 08/22/25 12:30

Matrix: Water

Date Received: 08/22/25 16:40

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2700	cn	250	50	ug/L			08/25/25 21:11	500
1,3,5-Trimethylbenzene	690	cn	250	50	ug/L			08/25/25 21:11	500
Benzene	16000	cn	250	50	ug/L			08/25/25 21:11	500
Ethylbenzene	3900	cn	250	50	ug/L			08/25/25 21:11	500
Isopropylbenzene	120	J cn	250	50	ug/L			08/25/25 21:11	500
Methyl tertiary butyl ether	<50	cn	250	50	ug/L			08/25/25 21:11	500
Naphthalene	220	J cn	250	100	ug/L			08/25/25 21:11	500
Xylene (total)	29000	cn	250	50	ug/L			08/25/25 21:11	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	cn	80 - 120					08/25/25 21:11	500
1,2-Dichlorobenzene-d4 (Surr)	109	cn	80 - 120					08/25/25 21:11	500

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	44000		2500	500	ug/L			08/25/25 21:34	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					08/25/25 21:34	5000
1,2-Dichlorobenzene-d4 (Surr)	102		80 - 120					08/25/25 21:34	5000

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	170000		25000	12000	ug/L			08/26/25 20:39	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	93		63 - 135					08/26/25 20:39	500

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	300		250	100	ug/L		09/01/25 20:30	09/02/25 19:26	1
Manganese	51		10	4.8	ug/L		09/01/25 20:30	09/02/25 19:26	1

Method: SM 2340B-2011 - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	25	!	2.1	0.90	mg/L			08/26/25 05:26	1
Mg	2.9	!	0.20	0.080	mg/L			08/26/25 05:26	1
Ca	5.4	!	0.50	0.23	mg/L			08/26/25 05:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	59		10	5.0	mg/L			08/25/25 16:46	1
Total Suspended Solids (SM 2540D-2015)	3.0		3.0	1.0	mg/L			08/26/25 10:22	1

Surrogate Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB	DCZ
		(80-120)	(80-120)
410-238564-1	Effluent	102 cn	109 cn
410-238564-1 - DL	Effluent	100	102
LCS 410-690148/4	Lab Control Sample	105	107
MB 410-690148/6	Method Blank	95	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1	
		(63-135)	
410-238564-1	Effluent	93	
LCS 410-690586/6	Lab Control Sample	87	
LCSD 410-690586/7	Lab Control Sample Dup	84	
MB 410-690586/5	Method Blank	97	

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

QC Sample Results

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-690148/6

Matrix: Water

Analysis Batch: 690148

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
1,3,5-Trimethylbenzene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Benzene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Ethylbenzene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Isopropylbenzene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Methyl tertiary butyl ether	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Naphthalene	<0.20		0.50	0.20	ug/L			08/25/25 13:26	1
Toluene	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1
Xylene (total)	<0.10		0.50	0.10	ug/L			08/25/25 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		08/25/25 13:26	1
1,2-Dichlorobenzene-d4 (Surr)	98		80 - 120		08/25/25 13:26	1

Lab Sample ID: LCS 410-690148/4

Matrix: Water

Analysis Batch: 690148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	5.00	4.98		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	5.00	4.92		ug/L		98	70 - 130
Benzene	5.00	4.80		ug/L		96	70 - 130
Ethylbenzene	5.00	4.85		ug/L		97	70 - 130
Isopropylbenzene	5.00	5.65		ug/L		113	70 - 130
Methyl tertiary butyl ether	5.00	4.53		ug/L		91	70 - 130
Naphthalene	5.00	4.90		ug/L		98	70 - 130
Toluene	5.00	4.93		ug/L		99	70 - 130
Xylene (total)	15.0	14.8		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
1,2-Dichlorobenzene-d4 (Surr)	107		80 - 120

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-690586/5

Matrix: Water

Analysis Batch: 690586

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			08/26/25 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	97		63 - 135		08/26/25 12:32	1

QC Sample Results

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 410-690586/6

Matrix: Water

Analysis Batch: 690586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)			1100	1060		ug/L		96	66 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
a,a,a-Trifluorotoluene (fid) (1C)	87		63 - 135								

Lab Sample ID: LCSD 410-690586/7

Matrix: Water

Analysis Batch: 690586

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Date: 09/09/09										
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline (Unleaded) (1C)			1100	1080		ug/L	-	98	66 - 120	1 30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
a.a.a-Trifluorotoluene (fid) (1C)	84		63 - 135							

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-693045/1-A

Matrix: Water

Analysis Batch: 693701

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 693045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<20		50	20	ug/L		09/01/25 20:30	09/02/25 16:46	1
Manganese	<0.95		2.0	0.95	ug/L		09/01/25 20:30	09/02/25 16:46	1

Lab Sample ID: LCS 410-693045/2-A

Matrix: Water

Analysis Batch: 693701

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 693045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5000	5220		ug/L		104	85 - 115
Manganese	500	523		ug/L		105	85 - 115
Calcium	5000	5380		ug/L		108	85 - 115
Magnesium	5000	5080		ug/L		102	85 - 115

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-690309/1

Matrix: Water

Analysis Batch: 690309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		10	5.0	mg/L			08/25/25 16:46	1

QC Sample Results

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Method: 2540C - 2015 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 410-690309/2

Matrix: Water

Analysis Batch: 690309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	190		mg/L		95	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-690670/1

Matrix: Water

Analysis Batch: 690670

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.0		3.0	1.0	mg/L			08/26/25 10:22	1

Lab Sample ID: LCS 410-690670/2

Matrix: Water

Analysis Batch: 690670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	145		mg/L		97	89 - 105

QC Association Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

GC/MS VOA

Analysis Batch: 690148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total/NA	Water	524.2	
410-238564-1 - DL	Effluent	Total/NA	Water	524.2	
MB 410-690148/6	Method Blank	Total/NA	Water	524.2	
LCS 410-690148/4	Lab Control Sample	Total/NA	Water	524.2	

GC VOA

Analysis Batch: 690586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total/NA	Water	8015D	
MB 410-690586/5	Method Blank	Total/NA	Water	8015D	
LCS 410-690586/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-690586/7	Lab Control Sample Dup	Total/NA	Water	8015D	

Metals

Analysis Batch: 685877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total/NA	Water	2340B-2011	

Prep Batch: 693045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total Recoverable	Water	200.8 Rev 5.4	
MB 410-693045/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-693045/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 693701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total Recoverable	Water	200.8 Rev 5.4	693045
MB 410-693045/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	693045
LCS 410-693045/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	693045

General Chemistry

Analysis Batch: 690309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total/NA	Water	2540C - 2015	
MB 410-690309/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-690309/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 690670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-238564-1	Effluent	Total/NA	Water	2540D-2015	
MB 410-690670/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-690670/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Client Sample ID: Effluent

Lab Sample ID: 410-238564-1

Date Collected: 08/22/25 12:30

Matrix: Water

Date Received: 08/22/25 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		500	690148	UJML	ELLE	08/25/25 21:11
Total/NA	Analysis	524.2	DL	5000	690148	UJML	ELLE	08/25/25 21:34
Total/NA	Analysis	8015D		500	690586	P5AM	ELLE	08/26/25 20:39
Total Recoverable	Prep	200.8 Rev 5.4			693045	UAMX	ELLE	09/01/25 20:30
Total Recoverable	Analysis	200.8 Rev 5.4		1	693701	I9IN	ELLE	09/02/25 19:26
Total/NA	Analysis	2340B-2011		1	685877	USJM	ELLE	08/26/25 05:26
Total/NA	Analysis	2540C - 2015		1	690309	UOCA	ELLE	08/25/25 16:46
Total/NA	Analysis	2540D-2015		1	690670	M98K	ELLE	08/26/25 10:22 - 08/27/25 09:10 ¹

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2340B-2011		Water	Ca
2340B-2011		Water	Hardness as calcium carbonate
2340B-2011		Water	Mg

Method Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2340B-2011	Total Hardness (as CaCO3) by calculation	SM	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions Inc
Project/Site: MIPC Aston, PA

Job ID: 410-238564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
410-238564-1	Effluent	Water	08/22/25 12:30	08/22/25 16:40	Pennsylvania

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

450-KOP

Chain of Custody Record 767508



Environment Testing

410-238564 Chain of Custody

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact		Project Manager: Brian Evans		Site Contact:		Date:		COC No:		
Company Name: Western Solutions		Tel/Email: 610 554 4711		Lab Contact:		Carrier:		1 of 1 COCs		
Address: 1400 Weston Way		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) PA-hydrocarbon Gas TPS TSS Hardness Iron Manganese TPH-GRO				Sampler: T. Kelly		
City/State/Zip: West Chester PA		☐ CALENDAR DAYS ☐ WORKING DAYS						For Lab Use Only:		
Phone: 610 322 6122		TAT if different from Below						Walk-in Client:		
Fax:		☐ 2 weeks ☐ 1 week ☐ 2 days ☒ 1 day						Lab Sampling:		
Project Name: MIPC		Site: Aston PA		P O #		Job / SDG No.:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
Effluent		8/22	1230	G	GW	9				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		2		42						
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown		☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months								
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____		Therm ID No.:				
Relinquished by: T. Kelly		Company: Weston		Date/Time: 8/22/25 16:40		Received by:		Company: _____ Date/Time: _____		
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____ Date/Time: _____		
Relinquished by:		Company:		Date/Time:		Received In Laboratory by: EWE		Company: FUE Date/Time: 8/22/25 16:40		

Login Sample Receipt Checklist

Client: Weston Solutions Inc

Job Number: 410-238564-1

Login Number: 238564

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McDonald, Teigan

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	True	

ATTACHMENT 2

Copy of 2nd Weekly Progress Report

January 6, 2026

Transmitted via e-mail to: cdbrown@pa.gov

C. David Brown, P.G.
Environmental Program Manager
Environmental Cleanup and Brownfields
Department of Environmental Protection, Southeast Regional Office
2 East Main Street
Norristown, PA 19401

**RE: Weekly Progress Report No. 2
MIPC Chelsea Facility
PADEP Facility ID No. To Be Assigned
920 Cherry Tree Road, Aston, PA 19014
Bethel Township, Upper Chichester Township, Aston Township, Delaware County
Langan Project No. 220240201**

Dear Mr. Brown:

On behalf of MIPC, LLC (MIPC) and in accordance with Part 1.f. of the Order issued by the Department of Environmental Protection (DEP) to MIPC on December 23, 2025, Langan Engineering and Environmental Services, LLC (Langan) is submitting this 2nd Weekly Progress Report for the MIPC Chelsea Facility in Aston, Delaware County, PA. This progress report summarizes activities performed by MIPC regarding the release for the period December 27, 2025, through January 2, 2026, and includes the required information per Part 1.f. of the Order.

Weekly progress reports are submitted electronically each Tuesday to report activities completed for the prior week (Saturday through Friday). It is understood that, with DEP's approval, the frequency of the progress reports may be reduced at a future time.

Laboratory reports for property well sampling received within the preceding seven-day (calendar) period, as required by Part 1.h. of the Order, are appended to this progress report, as applicable.

An Act 2 Notice of Intent to Remediate (NIR) for the release was submitted to the DEP via the public upload portal on December 30, 2025. Included with the NIR submission was proof of municipal notification (USPS certified mailing receipts for letters sent to Aston, Bethel and Upper Chichester Townships) and the text for public notification in a locally circulated newspaper. The public notice was subsequently published in the Delaware County Times newspaper on January 1, 2026.

- i. Numbers to date of groundwater supply wells identified, groundwater supply wells sampled, laboratory results received, and scheduled potable well sampling.

# GW Supply Wells Identified ¹	# GW Supply Wells Sampled	# Laboratory Results Received	# Scheduled Potable Well Sampling ²
50	4	4	21

¹ – Within Order-stipulated area of interest (i.e., 1,000 feet from western site boundary).

² – Scheduled appointments include four residences with potable wells located to the east of the site, beyond the area of interest, as well as two non-potable wells that are located within the area of interest but are unused or used for landscaping only (these residences are connected to and use public water but requested sampling of their non-potable private wells).

Refer to attached **Figure 1** and **Tables 1A** through **1D** for information regarding groundwater supply wells. Additional details regarding groundwater supply wells identification and sampling are provided below.

Updates since last Weekly Progress Report:

- *December 26 and 30, 2025:* Letters offering bottled water were mailed via USPS certified mail to 51 developed properties located within 1,000 feet of the western site boundary that were confirmed by the local water purveyor (Chester Water Authority, CWA) as not being connected to the public water supply (i.e., presumed to have private water supply wells). *Note that one property (5001 Concord Road) is connected to CWA public water supply and was inadvertently included in the mailing because of an incorrect address for this parcel in the Delaware County property records database.*
 - To date, ten residences have requested bottled water, and MIPC delivered cases of bottled water within hours of the request. MIPC has contracted with a bottled water delivery service (Primo Brands™ Bottled Water Delivery service) to continue providing bottled water to residents upon request.
- *December 31, 2025:* MIPC personnel visited all 117 developed properties within 1,000 feet of the western site boundary to speak with available residents, answer questions, and hand-deliver a community update letter, a fact sheet, and another copy of the well survey questionnaire.
- *January 2, 2026:* The community update letter, fact sheet, well survey questionnaire and a self-addressed, stamped envelope were mailed via USPS certified mail to 85 developed properties within 1,000 feet of the western site boundary. These 85 properties are in addition to the 32 nearest properties that were originally sent the questionnaire via USPS certified mail on December 10, 2025, as previously reported in the 1st Weekly Progress Report.

Copies of the December 26, 30, and 31, 2025 letters and certified mail receipts are included as **Attachment 1**. Note that the January 2, 2026, mailing included the same community update letter, fact sheet, and questionnaire that were hand-delivered to property owners on December 31, 2025.

As enumerated in **Table 1A**, attached, of the 50 properties located within 1,000 feet of the western site boundary and not connected to the public water supply, 23 properties with potable supply wells were either already sampled, are scheduled to be sampled, or are pending return calls to schedule well sampling, as follows:

- Fourteen owners have completed and returned the questionnaire;
 - Eleven of these properties are scheduled for well sampling on January 7, 8 or 9, 2026. We are awaiting return calls to schedule the remaining three residences.
- An additional four owners have consented to and have already had their private wells sampled (note that these four residences are the nearest properties to the known extent of petroleum impacts and all results were non-detect, as reported in the 1st Weekly Progress Report); and
- Five other owners have yet to return their questionnaires but have called to request well testing; four of these residences are scheduled to be tested on January 9, 2026, and one residence is pending scheduling upon a return call.

As detailed in **Table 1B**, in addition to the properties not connected to public water, we have received completed well search questionnaires from 10 of the 67 property owners who are connected to the CWA public water supply. Additionally, two of the property owners connected to the public water supply maintain a non-potable well for emergency/backup supply or landscaping purposes. Langan is scheduled to sample these non-potable wells on January 8, 2026.

Table 1C presents a list of the 14 undeveloped (i.e., ground) parcels located within 1,000 feet of the western site boundary; these properties have no water use.

Furthermore, four owners of properties located east of the site (i.e., outside of the area of interest) have requested well testing, and all four of these private wells are scheduled to be sampled on January 7 or 8, 2026, as shown in **Table 1D**.

- ii. *Numbers to date of tested potable wells exceeding MSCs for VOCs, and tested potable wells with detections of VOCs that do not exceed MSCs.*

# Tested Potable Wells Exceeding MSCs for VOCs	# Tested Potable Wells with Detections of VOCs below MSCs
0	0

As reported in the 1st Weekly Progress Report, four private potable wells have been tested to date, and none of the gasoline-related constituents (i.e., the PADEP

petroleum product list for unleaded gasoline) were detected at concentrations above laboratory method detection limits (MDLs) in any of the samples, duplicate samples, field blanks, or trip blanks. As shown on **Figure 1**, the locations of the four potable wells sampled to date are the nearest identified private wells to the release and known extent of measurable light non-aqueous phase liquids (LNAPL).

No additional wells were tested during the reporting period for this Weekly Progress Report. However, as noted in the response to *i.* above, multiple potable wells are scheduled to be tested this week (Wednesday through Friday, January 7th through 9th).

- iii. *Numbers to date of POETs installed by MIPC, POETs installed by others that are known by MIPC, and planned POETs by MIPC and by others.*

No POETs have been installed by MIPC or others to date, and no POETs are planned to be installed by MIPC or others at this time. As indicated in the response to 1.f.ii. above, all results to date have been non-detected for the gasoline-related constituents (EPA Test Method 524.2); therefore, POETs are not warranted at this time.

- iv. *A list of properties with potable wells, to date, known to MIPC with operating POETs or other treatment systems for VOCs, a list of properties with potable wells with VOC detections that do not have POETs or other treatment systems, a list of properties with potable wells with planned POETs, and a list of properties with potable wells with VOC detections where MIPC does not know whether the property has a POET or other treatment system.*

Properties with potable wells, to date, known to MIPC with:

Operating POETs for VOCs	VOC Detections and No POETs	Planned POETs	VOC Detections and Unknown POETs
0	0	0	0

- v. *Numbers to date of properties that have requested POETs from MIPC and where MIPC has declined to install or pay for the installation of a POET.'*

None (0). No property owners have requested POETs from MIPC to date.

- vi. *A list of properties, to date, that have requested POETs and where MIPC has declined to install or pay for the installation of POETs, and the reasoning for declining.*

None (0). No property owners have requested POETs from MIPC to date.

- vii. *Tables of all property well sampling analytical results, property well gauging results, and wellhead field screening results.*

Not applicable. As detailed in *ii.*, no additional private property wells have been gauged or sampled since the 1st Weekly Progress Report. Analytical and gauging results for private wells scheduled to be sampled this week will be reported in a future Weekly Progress Report.

- viii. Site characterization activities performed, including investigations and monitoring of soil, groundwater, LNAPL, surface water, ambient air, and vapor intrusion.*

As reported in the 1st Weekly Progress Report, MIPC initiated a subsurface drilling investigation on November 18, 2025. To date, MIPC has advanced six soil borings and installed 15 groundwater monitoring wells at the site, as shown on **Figure 2**. Measurable LNAPL was encountered in four of the six borings and nine of the 15 monitoring wells, as indicated by color-coding on **Figure 2**. The forthcoming interim remedial action plan and schedule due to the DEP by January 13, 2026, will describe further proposed subsurface and vapor intrusion investigation activities.

Unsaturated soil samples were collected from soil borings and from borings advanced at each monitoring well location at discrete depths corresponding to the highest measured PID reading and from immediately above the apparent water table (i.e., saturated soil). Final laboratory results for the soil samples collected from monitoring wells MW-9 through MW-13 have been received. **Table 2**, attached, presents a summary of the soil analytical results, which are compared to the applicable PA Act 2 Non-Residential Medium-Specific Concentrations (MSCs) and Vapor Intrusion Screening Values for Soil (SV_{SOIL}), which have been reduced by a factor of 10 to account for screening purposes under the PA Act 2 Site Specific Standard (SSS). Laboratory analytical reports for the soil sample analyses are presented in **Attachment 2**.

As shown in **Table 2**, no exceedances of the applicable MSCs or SV_{SOIL} were detected in subsurface soil samples collected from borings advanced at the MW-9, -10, -11, or -12 locations. Benzene was detected at a concentration greater than the soil-to-groundwater MSC in the subsurface soil sample collected from 12 to 12.5 feet below ground surface (bgs) at the MW-13 boring, and benzene, ethylbenzene and toluene were detected at concentrations above the SV_{SOIL} in this sample. The monitoring well installed at MW-13 contains measurable LNAPL. The nearest inhabited structure is located over 300 feet from MW-13.

As reported in the 1st Weekly Progress Report, Langan conducted low-flow groundwater sampling for the six wells with no measurable LNAPL (MW-3, -4, -5, -10, -11 and -12) on December 22 and 23, 2025. Laboratory results for the groundwater samples have been received. **Table 3**, attached, presents a summary of the groundwater analytical results, which are compared to the applicable PA Act 2 Residential and Non-Residential Used Aquifer Medium-Specific Concentrations (MSCs) and Vapor Intrusion Screening Values for Groundwater (SV_{GW}), which have been reduced by a factor of 10 to account for screening purposes under the PA Act 2

Site Specific Standard (SSS). Laboratory analytical reports for the groundwater sample analyses are presented in **Attachment 3**.

As shown in **Table 3**, no exceedances of the Residential or Non-Residential Groundwater MSCs or SV_{GW} were detected in groundwater samples collected from monitoring wells MW-3, -5, -10, -11 or -12. Benzene was detected in the parent and duplicate groundwater samples collected from monitoring well MW-4 at a concentration above the PA Act 2 Groundwater MSCs and SV_{GW} . Ethylbenzene, xylenes, and 1,2,4-trimethylbenzene were also detected in MW-4 groundwater at concentrations above the $1/10 SV_{GW}$. The nearest inhabited structure is located over 370 feet from MW-4.

As will be detailed in the forthcoming interim remedial action plan and schedule, monitoring wells are proposed to be installed on offsite properties to the west of the site for delineation of LNAPL and VI evaluation, pending property access.

MIPC has continued conducting routine weekly inspections of Outfalls 1, 2 and 3, the tributary of Marcus Hook Creek known as Bezer's Run, and Marcus Hook Creek. No indications of impact to surface water (e.g., sheen, odors, pooled product, stressed vegetation) have been identified to date. On December 31, 2025, an excavation seep was observed within the existing treatment system area to the southwest of the Tank 709 tank berm, coincident with the area where evidence of the product release was first observed in August 2025.

As further discussed in the response to *xi.* below, perimeter air monitoring (i.e., ambient air sampling at the facility fence line) began just before midnight on December 30, 2025.

- ix. Data tables and maps showing results of performed site characterization activities that MIPC obtained in the preceding 7-day (calendar) period.*

Please refer to **Tables 2** and **3** and **Figure 2**, as referenced in *viii.* above.

- x. Site remediation activities performed, including the cumulative quantity of petroleum recovered from each medium.*

As reported in the 1st Weekly Progress Report, MIPC began site remediation activities immediately on August 18, 2025, upon discovery of the hydrocarbon discharge from the concrete pipe. Initial product recovery efforts involved continuous vacuum truck extraction, and a temporary water treatment unit (WTU) has operated since September 2025. To date, total recovery since August 18, 2025, via both vacuum extraction and the WTU is approximately 28,790 gallons of petroleum.

Since December 8, 2025, Langan and its subcontractor (Republic Services, Inc.) have been performing Vacuum Enhanced Fluid Recovery (VEFR) focused on the wells MW-

2, -6, -7, -8 and -9, which are located west of Tank 708 near the western property boundary (see **Figure 2**). The table below summarizes the dates of VEFR and the estimated petroleum fluid removed by well. Additional presumed product volume removed via vapor/biodegradation is presented in the table below; these estimates are based on calculations using assumptions regarding vapor flow rate and oxygen/carbon dioxide ratio. More accurate recovery via vapor and biodegradation will be assessed via flow and biogas measurements to be collected during pilot studies in January 2026.

Date	Well	Estimated Total Fluids Removed (Gallons)	Estimated LNAPL Removed (Gallons)	Presumed LNAPL Removal via Vapor & Biodegradation (Gallons)	Total Estimated LNAPL Removed (Gallons)
12/8/2025	MW-2	40	15	15	30
12/9/2025	MW-2	50	28	28	56
12/10/2025	MW-2	125	43	43	86
12/11/2025	MW-6	30	5	5	10
12/12/2025	MW-7	42	7	7	14
12/13/2025	MW-7	100	33	33	66
12/17/2025	MW-8	140	70	70	140
	MW-9	50	20	20	40
12/18/2025	MW-8	32	3.2	3.2	6.4
	MW-2	67.5	24	24	48
12/19/2025	MW-9	75	11.5	11.5	23
12/22/2025	MW-2	142.5	57	57	114
12/23/2025	MW-9	10	1	1	2
	MW-2	72	28.8	28.8	57.6
12/29/2025	MW-2	54	22.1	22.1	44.2
12/30/2025	MW-9	60	6	6	12
		1090	374.6	374.6	749.2

The forthcoming interim remedial action plan and schedule due to the DEP by January 13, 2026 will describe proposed supplemental short-term remedial measures to recover LNAPL.

xi. All air sampling results received in the preceding 7-day (calendar) period.

MIPC/Langan began continuous, 24-hour perimeter air monitoring on December 30th just before midnight. Ambient air samples are collected from four locations (AA-1 through AA-4) along the perimeter facility fence line, as shown on **Figure 3**, attached. One of the air

monitoring stations (AA-1) is located on the northeastern corner of the site, and the three other air monitoring stations (AA-2, -3 and -4) are located along the northern portion of the western perimeter fence line. AA-3 is located in the area of the release and LNAPL recovery activities, and AA-2 and AA-4 are located to the north and south of AA-3, respectively. A weather station was also installed at the site for data evaluation purposes, as temperature, barometric pressure, precipitation, wind speed and wind direction can affect air quality and movement.

Samples are collected using 6-liter, laboratory-provided and certified cleaned Summa canisters. The ambient air samples are being analyzed by a PA-certified laboratory via Method TO-15.

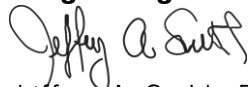
To date, laboratory results have been received for the eight samples collected on December 31, 2025, and January 1, 2026. Results for gasoline-related-constituents do not exceed the Residential or Non-Residential Indoor Air Statewide Health Standard Vapor Intrusion Screening Values (SV_{IA}). Acrolein was detected in seven of the eight samples at concentrations above the SV_{IA} ; however, acrolein is not a compound of concern associated with the gasoline release and, therefore, is believed to be a background contaminant. The laboratory analytical report for the initial air monitoring samples is included as **Attachment 4**.

Perimeter air monitoring is ongoing, and MIPC/Langan will submit a fence line air monitoring sampling plan for DEP's review and approval by January 13, 2026, per Part 1.I. of the Order.

If you should have any questions or comments, please feel free to contact Jeffrey Smith directly at 215-694-7549.

Sincerely,

Langan Engineering and Environmental Services, LLC



Jeffrey A. Smith, P.G.
Senior Associate



Robert S. (Rory) Johnston, PE, GE, BCEE
Managing Principal

Enclosure(s):

Figures

Figure 1 – Public Water Connection for Parcels Within 1,000 Feet of Western Property Boundary

Figure 2 – Site Characterization Locations and LNAPL Presence

Figure 3 – Perimeter Air Monitoring Locations

Tables

Table 1A – Properties Within 1000 Feet of Western Site Boundary Without Public Water Connection

Table 1B - Properties Within 1000 Feet of Western Site Boundary With Public Water Connection

Table 1C – Undeveloped Properties Within 1000 Feet of Western Site

Table 1D - Properties Beyond 1000 Feet of Western Site Boundary with Well Testing Request

Table 2 – Soil Analytical Results Summary - December 2025

Table 3 - Groundwater Analytical Results Summary - December 2025

Attachments

Attachment 1 – Copies of December 26, 30, and 31, 2025 Community Letters and Certified Mail Receipts

Attachment 2 – Soil Analytical Reports: December 2025

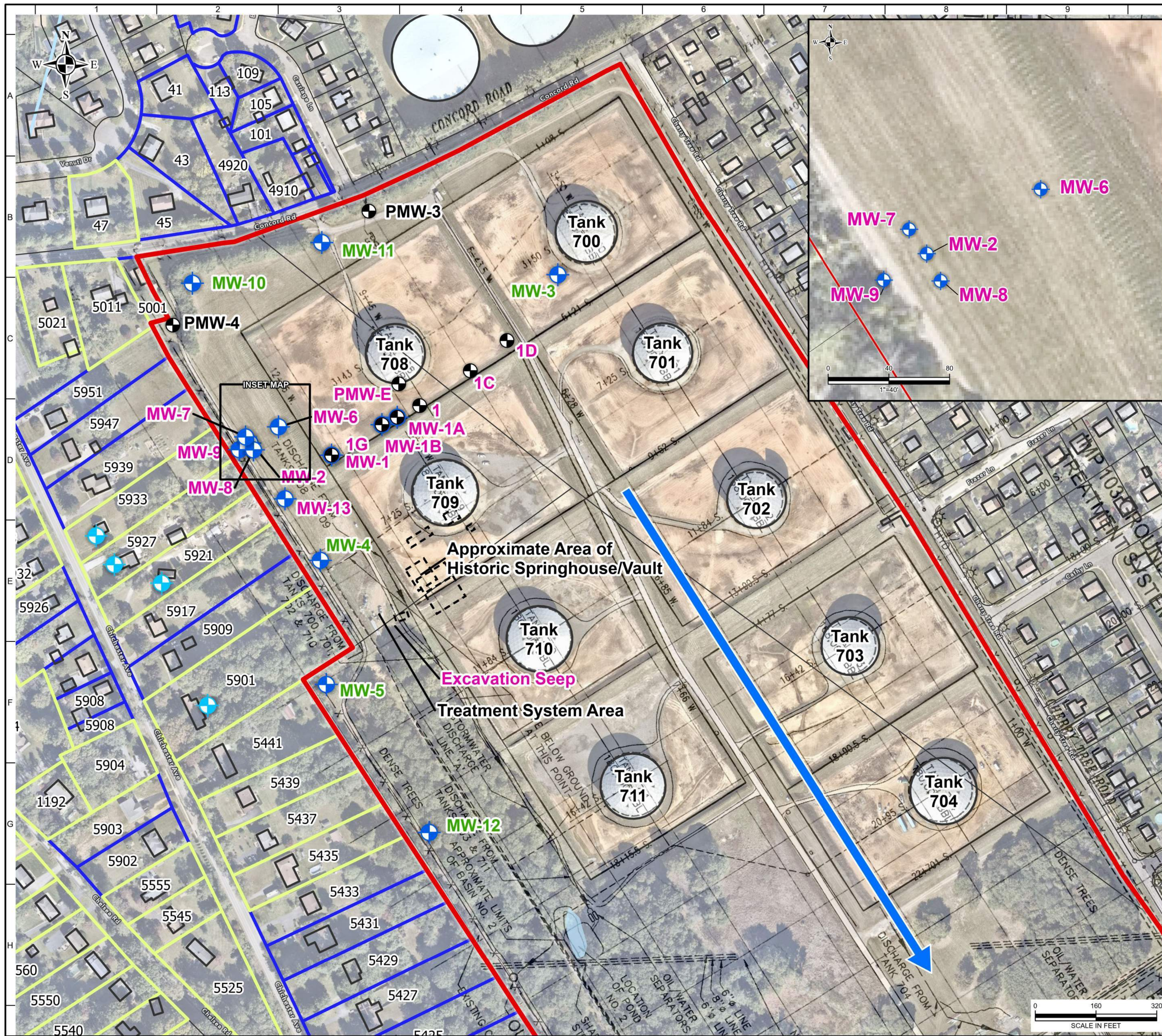
Attachment 3 – Groundwater Analytical Reports: December 2025

Attachment 4 – Perimeter Air Monitoring Analytical Report: December 31, 2025 and January 1, 2026

cc: Alex M. Langan – PADEP Southeast Regional Office
Township Managers - Aston Township, Bethel Township, Upper Chichester Township
Elizabeth Clapp, Melissa Turchi, Jeffrey Brockett, Adam Gattuso, Regan Howell, Christine Shorokey – MIPC, LLC
Margaret Hill - Blank Rome, LLP
Cortney Savidge, CHMM, John Loeffel – Langan

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FIGURES



- Legend**
- Approximate Soil Boring Location (Envirosure, Nov. 2025)
 - Approximate Monitoring Well Location (Envirosure, Nov-Dec 2025)
 - Approximate Private Potable Well Location Sampled by Langan in December 2025
 - Apparent Groundwater Flow Direction (Based on 2009 Groundwater Elevation Contours)
 - Historic Site Feature
 - Site Boundary
 - Structure
 - Lake/Pond
 - Stream
 - Parcel Boundary

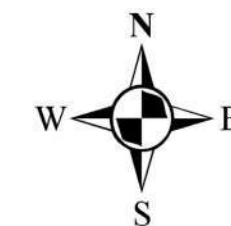
- Notes:**
- Green Sample ID - No LNAPL or Field-Evident Petroleum Impacts Encountered
 - Pink Sample ID - LNAPL Encountered
- All site feature locations are approximate.
 - Imagery provided through Langan's subscription to Nearmap.com. Flown 10/9/2025.
 - Basemap overlay is "Figure 1 Site Drainage Plan" drafted by Weston Solutions.
 - Parcel boundaries are provided by the Delaware County Office of Data and Mapping Innovation (ODMI).
 - Monitoring well and soil boring locations are provided by EnviroSure.
 - Groundwater flow directions are from 2009" Figure 5 Groundwater Elevation Contour Map" drafted by Sovereign Consulting Inc.
 - Streams and waterbodies are provided by the National Hydrography Dataset (NHD).
 - Structure outlines provided by the Federal Emergency Management Agency (FEMA) Geospatial Response Office and Oak Ridge National Laboratory (ORNL).
 - USGS and PaGWIS well locations, properties not serviced by CWA, and street addresses are from "Figure 2 Groundwater Usage Survey Findings" drafted by Sovereign Consulting Inc. on 6/22/2005.

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Project
MIPC CHELSEA FACILITY
920 CHERRY TREE ROAD
ASTON TOWNSHIP
DELAWARE COUNTY PENNSYLVANIA
Drawing Title

MIPC CHELSEA FACILITY

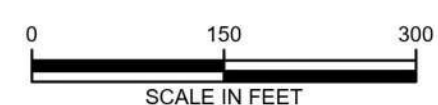
Project No.	000000000	Figure	1
Date	1/6/2026		
Scale	1"=160'		
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Legend

- Proposed Air Monitoring Station Location
- Approximate Soil Boring Location (Envirosure, Nov. 2025)
- Approximate Monitoring Well Location (Envirosure, Nov-Dec 2025)
- Approximate Private Potable Well Location Sampled by Langan in December 2025
- Site Boundary
- Structure
- Lake/Pond
- Stream

Notes:
1. All site feature locations are approximate.
2. Imagery provided through Langan's subscription to Nearmap.com. Flown 10/9/2025.
3. Basemap overlay is "Figure 1 Site Drainage Plan" drafted by Weston Solutions.
4. Parcel boundaries are provided by the Delaware County Office of Data and Mapping Innovation (ODMI).
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7. Structure outlines provided by the Federal Emergency Management Agency (FEMA) Geospatial Response Office and Oak Ridge National Laboratory (ORNL).



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Project

MIPC CHELSEA FACILITY

920 CHERRY TREE ROAD
ASTON TOWNSHIP

DELAWARE COUNTY PENNSYLVANIA

Drawing Title

**PERIMETER
AIR MONITORING
PROGRAM MAP**

Project No.	000000000	Figure 3
Date	12/31/2025	
Scale	1"=150'	
Drawn By	SH	

DRAFT

TABLES

Table 1A
Properties Within 1000 Feet of Western Site Boundary Without Public Water Connection
MIPC Chelsea Facility, Aston, PA 19014
Updated January 6, 2026

	Address (All Addresses are Aston, PA 19014)	Map No.	Parcel No.	Municipality	CWA Connection? (Yes/No)	Well Survey Completed/ Received?	Requested Well Testing (No Survey Rcv'd)	Well Sample Date	Scheduled Sampling Date	Requested/ Receiving Bottled Water
Round 1 Request to CWA (Emailed 12/8/2025)	5933 Chichester Ave.	024	3000006900	Bethel	No		Yes	12/16/2025	← Sampled	
	5927 Chichester Ave.	023	3000007000	Bethel	No		Yes	12/8/2025	← Sampled	
	5921 Chichester Ave.	022	3000007100	Bethel	No		Yes	12/8/2025	← Sampled	Yes
	5901 Chichester Ave.	019	3000007300	Bethel	No		Yes	12/8/2025	← Sampled	
	5441 Chichester Ave.	023	9000089101	Upper Chichester	No		Yes	Scheduled →	1/9/2026	Yes
	5439 Chichester Ave.	024	9000089113	Upper Chichester	No					
	5437 Chichester Ave.	025	9000089112	Upper Chichester	No	Yes		Scheduled →	1/7/2026	
	5435 Chichester Ave.	026	9000089111	Upper Chichester	No		Yes	Scheduled →	1/9/2026	Yes
	5417 Chichester Ave.	035	9000089102	Upper Chichester	No	Yes			Pending Return Call	
	5021 Concord Rd.	015	3000013101	Bethel	No					
	5011 Concord Rd.	016	3000013102	Bethel	No	Yes		Scheduled →	1/8/2026	
Round 2 Request to CWA (Emailed 12/15/2025)	5950 CHICHESTER AVE	03-05 -028	3000007400	Bethel	No					
	5946 CHICHESTER AVE	03-05 -029	3000007500	Bethel	No	Yes		Scheduled →	1/7/2026	
	5938 CHICHESTER AVE	03-05 -030	3000007600	Bethel	No					
	5932 CHICHESTER AVE	03-05 -031	3000007601	Bethel	No					
	5904 CHICHESTER AVE	03-05 -037	3000007801	Bethel	No					
	5500 CHELSEA RD	09-02 -009	9000065501	Upper Chichester	No					
	5510 CHELSEA RD	09-02 -008	9000065502	Upper Chichester	No					
	5400 CHICHESTER AVE	09-02 -015	9000098401	Upper Chichester	No					
	5300 CHICHESTER AVE	09-06 -005	9000098408	Upper Chichester	No	In Mail	Yes		Pending Return Call	
	5310 CHICHESTER AVE	09-06 -004	9000098409	Upper Chichester	No					
	5320 CHICHESTER AVE	09-06 -003	9000098410	Upper Chichester	No					
	5340 CHICHESTER AVE	09-02 -016	9000098412	Upper Chichester	No					
	5410 CHICHESTER AVE	09-02 -014	9000098413	Upper Chichester	No					
	5446 CHICHESTER AVE	09-02 -010	9000098417	Upper Chichester	No					
	5525 CHELSEA RD	09-02 -022	9000098418	Upper Chichester	No	Yes		Scheduled →	1/7/2026	
	5545 CHELSEA RD	09-02 -021	9000098419	Upper Chichester	No	Yes		Scheduled →	1/7/2026	Yes
	5555 CHELSEA RD	09-02 -020	9000098420	Upper Chichester	No					
Round 3 Request to CWA (Emailed 12/24/2025)	1165 CONCORD RD	03-05-013:000	3000013000	Bethel Township	No					
	1170 CHELSEA RD	03-05-041:000	3000005700	Bethel Township	No					
	5111 CONCORD RD	03-05-012:000	3000012900	Bethel Township	No					
	1148 CHELSEA RD	03-05-044:000	3000005500	Bethel Township	No	Yes		Scheduled →	1/12/2026	Yes
	1166 CHELSEA RD	03-05-042:000	3000005600	Bethel Township	No					
	1176 CHELSEA RD	03-05-040:000	3000005701	Bethel Township	No	Yes		Scheduled →	1/12/2026	Yes
	5214 CHICHESTER AVE	09-06-009:000	9000098406	Upper Chichester	No	Yes		Scheduled →	1/9/2026	Yes
	1184 CHELSEA RD	03-05-039:000	3000005800	Bethel Township	No					
	1183 CHELSEA RD	03-05-054:000	3000006103	Bethel Township	No	Yes		Scheduled →	1/7/2026	
	1185 CHELSEA RD	03-05-051:000	3000006101	Bethel Township	No					
	1192 CHELSEA RD	03-05-038:000	3000005900	Bethel Township	No					
	1191 CHELSEA RD	03-05-052:000	3000006102	Bethel Township	No	In Mail	Yes	Scheduled →	1/12/2026	Yes
	5580 CHELSEA RD	09-02-001:000	9000065509	Upper Chichester	No	Yes			Pending Return Call	
	5570 CHELSEA RD	09-02-002:000	9000065508	Upper Chichester	No	Yes		Scheduled →	1/14/2026	
	5560 CHELSEA RD	09-02-003:000	9000065507	Upper Chichester	No	Yes		Scheduled →	1/9/2026	Yes
	5550 CHELSEA RD	09-02-004:000	9000065506	Upper Chichester	No	Yes			Pending Return Call	
	5540 CHELSEA RD	09-02-005:000	9000065505	Upper Chichester	No					
	5530 CHELSEA RD	09-02-006:000	9000065504	Upper Chichester	No					
	510 CHICHESTER AVE	09-06 -006:000	9000098300	Upper Chichester	No					
	5240 CHICHESTER AVE	09-06-008:000	9000098407	Upper Chichester	No					
	5213 CHICHESTER AVE	09-07-003:000	9000088905	Upper Chichester	No					
	5212 CHICHESTER AVE	09-06-010:000	9000098405	Upper Chichester	No	In Mail	Yes	Scheduled →	1/9/2026	Yes
Total Count:					50	14	9	4	15	10

Notes:
List includes parcels located within 1,000 feet of the western site boundary that are not connected to the CWA public water supply, per correspondence with CWA in December 2025.
All 50 properties were hand-delivered well survey questionnaires on December 31, 2025 and mailed questionnaires with SASE on December 10, 2025 or January 2, 2026.
All 50 properties were offered bottled water during in-person visits on December 31, 2025 and via written letters mailed December 26, 2025 or January 2, 2026.

Table 1B Properties Within 1000 Feet of Western Site Boundary With Public Water Connection MIPC Chelsea Facility, Aston, PA 19014 Updated January 5, 2026							
Address	Map No.	Parcel No.	Municipality	CWA Connection? (Yes/No)	Well Survey Completed/ Received?	Non-Potable Well Sample Request Received	Well Sample Date or Scheduled Sample Date
5001 Concord Rd.	017	3000013200	Bethel	Yes	No	Yes	1/8/2026
1 Cella Dr.	09-07 -001:010	9000060651	Upper Chichester	Yes	No	No	No
3 Cella Dr.	09-03 -022:000	9000060652	Upper Chichester	Yes	No	No	No
5 Cella Dr.	09-03 -021:000	9000060653	Upper Chichester	Yes	Yes	No	No
7 Cella Dr.	09-03 -020:000	9000060654	Upper Chichester	Yes	No	No	No
9 Cella Dr.	09-03 -019:000	9000060655	Upper Chichester	Yes	No	No	No
5926 CHICHESTER AVE	03-05 -032	3000007602	Bethel	Yes	No	No	No
5920 CHICHESTER AVE	03-05 -033	3000007700	Bethel	Yes	No	No	No
5914 CHICHESTER AVE	03-05 -034	3000007702	Bethel	Yes	No	No	No
5908 CHICHESTER AVE	03-05 -035	3000007800	Bethel	Yes	No	No	No
5330 CHICHESTER AVE	09-02 -017	9000098411	Upper Chichester	Yes	No	No	No
5420 CHICHESTER AVE	09-02 -013	9000098414	Upper Chichester	Yes	No	No	No
5430 CHICHESTER AVE	09-02 -012	9000098415	Upper Chichester	Yes	No	No	No
5440 CHICHESTER AVE	09-02 -011	9000098416	Upper Chichester	Yes	No	No	No
5902 CHICHESTER AVE	09-02 -019	9000098421	Upper Chichester	Yes	No	No	No
5903 CHICHESTER AVE	09-02 -018	9000098422	Upper Chichester	Yes	No	No	No
5980 Chichester Ave.	014	03-00-00131-00	Bethel	Yes	No	No	No
5951 Chichester Ave.	027	03-00-00066-00	Bethel	Yes	No	No	No
5947 Chichester Ave.	026	03-00-00067-00	Bethel	Yes	No	No	No
5939 Chichester Ave.	025	03-00-00068-00	Bethel	Yes	Yes	No	No
5917 Chichester Ave.	021	03-00-00072-00	Bethel	Yes	No	No	No
5909 Chichester Ave.	020	03-00-00072-01	Bethel	Yes	No	No	No
5433 Chichester Ave.	027	09-00-00891-10	Upper Chichester	Yes	No	No	No
5431 Chichester Ave.	028	09-00-00891-09	Upper Chichester	Yes	No	No	No
5429 Chichester Ave.	029	09-00-00891-08	Upper Chichester	Yes	No	No	No
5427 Chichester Ave.	030	09-00-00891-07	Upper Chichester	Yes	No	No	No
5425 Chichester Ave.	031	09-00-00891-06	Upper Chichester	Yes	Yes	No	No
5421 Chichester Ave.	033	09-00-00891-04	Upper Chichester	Yes	Yes	No	No
5413 Chichester Ave.	036	09-00-00891-00	Upper Chichester	Yes	No	No	No
5409 Chichester Ave.	036-001	09-00-00891-14	Upper Chichester	Yes	Yes	No	No
5405 Chichester Ave.	036-002	09-00-00891-15	Upper Chichester	Yes	Yes	No	No
5401 Chichester Ave.	036-003	09-00-00891-16	Upper Chichester	Yes	No	No	No
5307 Chichester Ave.	048	09-00-00890-04	Upper Chichester	Yes	No	No	No
5305 Chichester Ave.	049	09-00-00890-03	Upper Chichester	Yes	Yes	No	No
5303 Chichester Ave.	050	09-00-00890-02	Upper Chichester	Yes	No	No	No
5301 Chichester Ave.	053	09-00-00890-01	Upper Chichester	Yes	No	No	No
1 Bernard St.	054	09-00-00168-40	Upper Chichester	Yes	No	No	No
3 Bernard St.	001	09-00-00168-41	Upper Chichester	Yes	No	No	No
5 Bernard St.	001-007	09-00-00168-42	Upper Chichester	Yes	No	No	No
7 Bernard St.	001-008	09-00-00168-43	Upper Chichester	Yes	No	No	No
9 Bernard St.	001-009	09-00-00606-50	Upper Chichester	Yes	No	No	No
11 Bernard St.	001-024	09-00-00606-65	Upper Chichester	Yes	No	No	No
13 Bernard St.	001-025	09-00-00168-44	Upper Chichester	Yes	No	No	No
2 Bernard St.	001-035	09-00-00168-54	Upper Chichester	Yes	No	No	No
4 Bernard St.	001-034	09-00-00168-53	Upper Chichester	Yes	Yes	No	No
6 Bernard St.	001-033	09-00-00168-52	Upper Chichester	Yes	No	No	No
8 Bernard St.	001-032	09-00-00168-51	Upper Chichester	Yes	No	No	No
10 Bernard St.	001-031	09-00-00168-50	Upper Chichester	Yes	No	No	No
12 Benard St.	001-030	09-00-00168-49	Upper Chichester	Yes	No	No	No
14 Bernard St.	001-029	09-00-00168-48	Upper Chichester	Yes	No	No	No
16 Bernard St.	001-028	09-00-00168-47	Upper Chichester	Yes	No	No	No
18 Bernard St.	001-027	09-00-00168-46	Upper Chichester	Yes	No	No	No
2 Cella Dr.	001-023	09-00-00606-64	Upper Chichester	Yes	No	No	No
4 Cella Dr.	001-022	09-00-00606-63	Upper Chichester	Yes	No	No	No
6 Cella Dr.	001-021	09-00-00606-62	Upper Chichester	Yes	No	No	No
8 Cella Dr.	001-020	09-00-00606-61	Upper Chichester	Yes	No	No	No
10 Cella Dr.	027	09-00-00606-60	Upper Chichester	Yes	No	No	No
12 Cella Dr.	026	09-00-00606-59	Upper Chichester	Yes	No	No	No
14 Cella Dr.	025	09-00-00606-58	Upper Chichester	Yes	No	No	No
16 Cella Dr.	024	09-00-00606-57	Upper Chichester	Yes	No	No	No
18 Cella Dr.	023	09-00-00606-56	Upper Chichester	Yes	No	No	No
1162 CHELSEA RD	03-05-043:000	3000005501	Bethel Township	Yes	No	No	No
1158 CHELSEA RD	03-05-044:001	3000005505	Bethel Township	Yes	No	No	No
5209 CHICHESTER AVE	09-07-004:000	9000088904	Upper Chichester	Yes	No	No	No
5201 CHICHESTER AVE	09-07-007:000	9000088901	Upper Chichester	Yes	No	No	No
5205 CHICHESTER AVE	09-07-005:000	9000088903	Upper Chichester	Yes	No	No	No
5203 CHICHESTER AVE	09-07-006:000	9000088902	Upper Chichester	Yes	Yes	Yes	1/8/2026
Totals				67	9	2	2

Notes:

List includes parcels located within 1,000 feet of the western site boundary that are connected to the CWA public water supply, per correspo
All 67 properties were hand-delivered well survey questionnaires on December 31, 2025 and mailed questionnaires with SASE on December

Table 1C
Undeveloped Properties Within 1000 Feet of Western Site Boundary
MIPC Chelsea Facility, Aston, PA 19014
Updated January 2, 2026

Address	Map No.	Parcel No.	Municipality	CWA Connection? (Yes/No)
1165 CONCORD RD	03-05-013:000	3000013000	Bethel Township	Undeveloped - N/A
0 CHICHESTER AVE	03-05 -036	3000007701	Bethel	Undeveloped - N/A
0 Chichester Ave.	032	9000089105	Upper Chichester	Undeveloped - N/A
0 Chichester Ave.	034	9000089103	Upper Chichester	Undeveloped - N/A
0 Bernard St.	001-026	9000016845	Upper Chichester	Undeveloped - N/A
0 CHICHESTER AVE	09-06-005:001	9000089000	Upper Chichester Township	Undeveloped - N/A
0 CHELSEA RD	09-02-007:000	9000065503	Upper Chichester Township	Undeveloped - N/A
Undeveloped Land	09-07-008:000	No PIN Assigned	Upper Chichester Township	Undeveloped - N/A
0 CHICHESTER AVE	09-06-005:001	9000089000	Upper Chichester Township	Undeveloped - N/A
0 BETHEL RD	09-07-017:001	9000025901	Upper Chichester Township	Undeveloped - N/A
5400 CHICHESTER AVE	09-02-015:000	9000098401	Upper Chichester Township	Undeveloped - N/A
5980 CHICHESTER AVE	03-05-014:000	3000013100	Bethel	Undeveloped - N/A
3 BERNARD ST	09-07-001:000	9000016841	Upper Chichester Township	Undeveloped - N/A
5 BERNARD ST	09-07-001:007	9000016842	Upper Chichester Township	Undeveloped - N/A
Total Count:		14		

Table 1D

Properties Beyond 1000 Feet of Western Site Boundary with Well Testing Request

MIPC Chelsea Facility, Aston, PA 19014

Updated January 5, 2026

Address	Map No.	Parcel No.	Municipality	CWA Connection? (Yes/No)	Requested Well Testing	Well Sample Date	Scheduled Sampling Date
124 Moser Street	02-18 -251:000	2000155900	Aston Township	No	Yes	Scheduled	1/7/2026
126 Moser Street	02-18 -252:000	2000156000	Aston Township	No	Yes	Scheduled	1/8/2026
908 Cherry Tree Rd	09-07 -014:000	9000071700	Upper Chichester	No	Yes	Scheduled	1/7/2026
526 Schick Road	02-12 -366:000	2000230400	Aston Township	No	Yes	Scheduled	1/8/2026

Analyte	CAS Number	PADEP Non-Residential Direct Contact MSC (2-15 Ft)	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated	PADEP Non-Residential Soil SHS Vapor Intrusion 1/10 Screening Values	Location	SB-MW-9					SB-MW-9					SB-MW-10					SB-MW-10				
					Sample Name	SB-MW-9_16.0					SB-MW-9_16.5					SB-MW-10_28					SB-MW-10_31				
					Sample Date	12/15/2025					12/15/2025					12/17/2025					12/17/2025				
					Sample Depth	16-16.5					16.5-17					28-28.5					31-31.5				
					Saturation	Unsaturated					Unsaturated					Unsaturated					Unsaturated				
					Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Volatile Organic Compounds																									
1,2,4-Trimethylbenzene	95-63-6	5400	300	30	mg/kg	ND	U	0.00072	0.0029	1	ND	U	0.00078	0.0031	1	ND	U	0.00065	0.0026	1	0.0020		0.00048	0.0019	1
1,3,5-Trimethylbenzene	108-67-8	5400	93	9.3	mg/kg	ND	U	0.00062	0.0029	1	ND	U	0.00067	0.0031	1	ND	U	0.00056	0.0026	1	0.00057	J	0.00042	0.0019	1
Benzene	71-43-2	330	0.5	0.013	mg/kg	0.0010		0.00066	0.00072	1	ND	U	0.00071	0.00078	1	ND	U	0.0006	0.00065	1	ND	U	0.00044	0.00048	1
Ethylbenzene	100-41-4	1000	70	4.6	mg/kg	ND	U	0.00066	0.0014	1	ND	U	0.0007	0.0016	1	ND	U	0.00059	0.0013	1	0.00069	J	0.00044	0.00097	1
Isopropylbenzene (Cumene)	98-82-8	10000	2500	250	mg/kg	ND	U	0.0021	0.0029	1	ND	U	0.0022	0.0031	1	ND	U	0.0019	0.0026	1	ND	U	0.0014	0.0019	1
Naphthalene	91-20-3	77	25	2.5	mg/kg	ND	U	0.0036	0.0072	1	ND	U	0.0039	0.0078	1	ND	U	0.0033	0.0065	1	ND	U	0.0024	0.0048	1
Tert-Butyl Methyl Ether (MTBE)	1634-04-4	9800	2	0.14	mg/kg	ND	U	0.00068	0.0014	1	ND	U	0.00073	0.0016	1	ND	U	0.00061	0.0013	1	ND	U	0.00045	0.00097	1
Toluene	108-88-3	10000	100	4.4	mg/kg	0.0037		0.00076	0.0014	1	0.0015	J	0.00082	0.0016	1	ND	U	0.00069	0.0013	1	0.0018		0.00051	0.00097	1
Total Xylenes	1330-20-7	9100	1000	99	mg/kg	0.0018		0.00066	0.0014	1	ND	U	0.00071	0.0016	1	ND	U	0.0006	0.0013	1	0.0043		0.00044	0.00097	1
General Chemistry																									
Solids, Percent	SOLID	NS	NS	NS	Percent	63.9			0	1	63			0	1	70.8			0	1	83.5			0	1

Table 2
Soil Analytical Results - December 2025
MIPC Chelsea Facility
920 Cherry Tree Rd, Aston, PA
Langan Project No.: 220240201

Analyte	CAS Number	PADEP Non-Residential Direct Contact MSC (2-15 Ft)	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated	PADEP Non-Residential Soil SHS Vapor Intrusion 1/10 Screening Values	Location	SB-MW-11					SB-MW-12					SB-MW-13				
					Sample Name	SB-MW-11_33					SB-MW-12_5.5					SB-MW-13_12				
					Sample Date	12/18/2025					12/19/2025					12/20/2025				
					Sample Depth	33-33.5					5.5-6					12-12.5				
					Saturation	Unsaturated					Unsaturated					Unsaturated				
					Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	95-63-6	5400	300	30	mg/kg	ND	U	0.00052	0.0021	1	ND	U	0.00053	0.0021	1	11.6		0.099	0.4	1
1,3,5-Trimethylbenzene	108-67-8	5400	93	9.3	mg/kg	ND	U	0.00045	0.0021	1	ND	U	0.00045	0.0021	1	3.34		0.085	0.4	1
Benzene	71-43-2	330	0.5	0.013	mg/kg	0.00092		0.00047	0.00052	1	ND	U	0.00048	0.00053	1	20.1		0.09	0.099	1
Ethylbenzene	100-41-4	1000	70	4.6	mg/kg	ND	U	0.00047	0.001	1	ND	U	0.00048	0.0011	1	7.64		0.09	0.2	1
Isopropylbenzene (Cumene)	98-82-8	10000	2500	250	mg/kg	ND	U	0.0015	0.0021	1	ND	U	0.0015	0.0021	1	0.6		0.28	0.4	1
Naphthalene	91-20-3	77	25	2.5	mg/kg	ND	U	0.0026	0.0052	1	ND	U	0.0026	0.0053	1	0.62	J	0.49	0.99	1
Tert-Butyl Methyl Ether (MTBE)	1634-04-4	9800	2	0.14	mg/kg	ND	U	0.00049	0.001	1	ND	U	0.00049	0.0011	1	ND	U	0.093	0.2	1
Toluene	108-88-3	10000	100	4.4	mg/kg	ND	U	0.00055	0.001	1	ND	U	0.00055	0.0011	1	57.6		1	2	1
Total Xylenes	1330-20-7	9100	1000	99	mg/kg	ND	U	0.00048	0.001	1	ND	U	0.00048	0.0011	1	45.5		0.091	0.2	1
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	Percent	82.8			0	1	79			0	1	62.2			0	1

Table 2

Soil Analytical Results - December 2025
 MIPC Chelsea Facility
 920 Cherry Tree Rd, Aston, PA
 Langan Project No.: 220240201

Notes:

Soil samples were compared to the PADEP MSCs and Vapor Intrusion Screening Values (1/10th) (November 2021)

PADEP - Pennsylvania Department of Environmental Protection

MSC - Medium Specific Concentrations

SHS - Statewide Health Standards (PA Act 2 Program)

TDS - Total Dissolved Solids

CAS - Chemical Abstract Service

NS - No standard

mg/kg - Milligrams per kilogram

ND - Not detected

Q - Qualifier

MDL - Method detection limit

RL - Reporting Limit

DF - Dilution factor

Qualifiers:

J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds PADEP Non-Residential Direct Contact (2-15 Ft)

10 - Result exceeds PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS $\leq$ 2500 mg/l Unsaturated

10 - Result exceeds PADEP Non-Residential Soil SHS Vapor Intrusion 1/10 Screening Values

10 - MDL or RL greater than the applicable standard

Table 3

Groundwater Analytical Results Summary: December 2025

MIPC, LLC Chelsea Tank Farm

920 Cherry Tree Rd, Aston, PA 19014

Langan Project No. 220240201

	CAS#	PADEP Groundwater MSCs Used Aquifer, TDS < 2,500		PADEP Groundwater VI Screening Values (SV _{GW}) SSS (1/10th Values)		Sample ID:	MW-3_122325				MW-4_122225				DUP-1 (Duplicate of MW-4_122225)				MW-5_122225				MW-10_122325				MW-11_122325				MW-12_122325			
		Residential	Non- Residential	Residential	Non- Residential	Lab Sample ID:	JE25857-1				JE25791-2				JE25791-3				JE25791-1				JE25857-2				JE25857-3				JE25857-4			
						Date Sampled:	12/23/25 10:05				12/22/25 16:50				12/22/25 0:00				12/22/25 14:10				12/23/25 12:55				12/23/25 13:20				12/23/25 15:00			
						Matrix:	Groundwater				Groundwater				Groundwater				Groundwater				Groundwater				Groundwater				Groundwater			
Volatile Organic Compounds (VOCs) by sW846 Method 8260D						Unit	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL
Benzene	71-43-2	5	5	2.3	35	µg/L	ND		0.43	0.50	3,450		11	13	3,470		11	13	ND		0.43	0.50	ND		0.43	0.50	ND		0.43	0.50	ND		0.43	0.50
Toluene	108-88-3	1,000	1,000	3,400	43,000	µg/L	ND		0.49	1.0	457		12	25	443		12	25	ND		0.49	1.0	ND		0.49	1.0	2.8		0.49	1.0	ND		0.49	1.0
Ethylbenzene	100-41-4	700	700	70	86	µg/L	ND		0.60	1.0	177		15	25	171		15	25	ND		0.60	1.0	ND		0.60	1.0	ND		0.60	1.0	ND		0.60	1.0
Xylene (total)	1330-20-7	10,000	10,000	1,000	1,200	µg/L	ND		0.59	1.0	1,680		15	25	1,670		15	25	ND		0.59	1.0	ND		0.59	1.0	1.3		0.59	1.0	ND		0.59	1.0
Isopropylbenzene (Cumene)	98-82-8	840	3500	190	2,400	µg/L	ND		0.65	1.0	ND		16	25	ND		16	25	ND		0.65	1.0	ND		0.65	1.0	ND		0.65	1.0	ND		0.65	1.0
Methyl Tert Butyl Ether (MTBE)	1634-04-4	20	20	630	9,600	µg/L	ND		0.51	1.0	ND		13	25	ND		13	25	ND		0.51	1.0	ND		0.51	1.0	ND		0.51	1.0	ND		0.51	1.0
Naphthalene	91-20-3	100	100	10	130	µg/L	ND		4.4	5.0	ND		110	130	ND		110	130	ND		4.4	5.0	ND		4.4	5.0	ND		4.4	5.0	ND		4.4	5.0
1,2,4-Trimethylbenzene	95-63-6	130	530	51	640	µg/L	ND		1.0	2.0	114		25	50	116		25	50	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0
1,3,5-Trimethylbenzene	108-67-8	130	530	36	450	µg/L	ND		1.0	2.0	30.5	J	25	50	32.9	J	25	50	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0

	CAS#	PADEP Groundwater MSCs Used Aquifer, TDS < 2,500		PADEP Groundwater VI Screening Values (SV _{GW}) SSS (1/10th Values)		Sample ID:	FB-1_122225				TB-1_122225				FB-2_122325				TB-2_122325			
		Residential	Non- Residential	Residential	Non- Residential	Lab Sample ID:	JE25791-4				JE25791-5				JE25857-5				JE25857-6			
						Date Sampled:	12/22/25 17:15				12/22/25 17:15				12/23/25 15:10				12/23/25 15:10			
						Matrix:	Field Blank				Trip Blank				Field Blank				Trip Blank			
Volatile Organic Compounds (VOCs) by sW846 Method 8260D						Unit	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL	Result	Q	MDL	RL
Benzene	71-43-2	5	5	2.3	35	µg/L	ND		0.43	0.50	ND		0.43	0.50	ND		0.43	0.50	ND		0.43	0.50
Toluene	108-88-3	1,000	1,000	3,400	43,000	µg/L	ND		0.49	1.0	ND		0.49	1.0	ND		0.49	1.0	ND		0.49	1.0
Ethylbenzene	100-41-4	700	700	70	86	µg/L	ND		0.60	1.0	ND		0.60	1.0	ND		0.60	1.0	ND		0.60	1.0
Xylene (total)	1330-20-7	10,000	10,000	1,000	1,200	µg/L	ND		0.59	1.0	ND		0.59	1.0	ND		0.59	1.0	ND		0.59	1.0
Isopropylbenzene (Cumene)	98-82-8	840	3500	190	2,400	µg/L	ND		0.65	1.0	ND		0.65	1.0	ND		0.65	1.0	ND		0.65	1.0
Methyl Tert Butyl Ether (MTBE)	1634-04-4	20	20	630	9,600	µg/L	ND		0.51	1.0	ND		0.51	1.0	ND		0.51	1.0	ND		0.51	1.0
Naphthalene	91-20-3	100	100	10	130	µg/L	ND		4.4	5.0	ND		4.4	5.0	ND		4.4	5.0	ND		4.4	5.0
1,2,4-Trimethylbenzene	95-63-6	130	530	51	640	µg/L	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0
1,3,5-Trimethylbenzene	108-67-8	130	530	36	450	µg/L	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0	ND		1.0	2.0

- Notes:
- 3450

- Concentration exceeds the PADEP Used Aquifer Groundwater MSCs (Residential and Non-Residential) and the PADEP Groundwater VI Screening Values (Residential and Non-Residential)
- 177

- Concentration exceeds the PADEP SSS Groundwater VI Screening Values (1/10) (Residential and Non-Residential)
- 114

- Concentration exceeds the PADEP SSS Groundwater VI Screening Values (1/10) (Residential Only)
- PADEP

- Pennsylvania Department of Environmental Protection
- SSS

- PADEP Act 2 Site Specific Standard
- MSC

- Medium Specific Concentration, which are the Land Recycling Program (Act 2) cleanup standards, as published in 25 Pa. Code Chapter 250 and last revised November 2021.
- TDS

- Total Dissolved Solids
- VI

- Vapor Intrusion
- Q

- Laboratory Qualifier
- MDL

- Laboratory Method Detection Limit
- RL

- Laboratory Reporting Limit
- µg/L

- micrograms per liter
- ND

- Analyte was Not Detected above corresponding laboratory MDL.
- J

- Laboratory-approximated concentration above the MDL but below the RL.

ATTACHMENTS

ATTACHMENT 1

Copies of December 26, 30, and 31, 2025 Community Letters
and Certified Mail Receipts



MIPC, LLC
920 Cherry Tree Road
Aston, PA 19014

December 26, 2025

Dear Neighbor,

This letter is a follow-up to our initial outreach efforts, including our request for your assistance to provide additional information as to the source of drinking water used on your property: whether you have a private water well or you are connected to a public water source. If you have not already returned that questionnaire, we ask that you please take the time to fill that out and return it in the previously provided self-addressed, stamped envelope.

Additionally, **we are offering to supply your property with bottled water service.** If you would like us to provide such service, please contact us at 610-364-8426 or via email at MIPC1@monroe-energy.com with your name, address and number of persons in our household, and we will have the bottled water service begin at your property within 24 hours of your request.

Please know that to date, MIPC has tested the potable groundwater wells of 4 of our neighbors using a third-party, EPA-certified lab and no petroleum related compounds were found, but your safety, health, and peace of mind is a priority to MIPC and we therefore respect a decision you might make to opt in to this service.

We continue to work closely with all agencies and first responders, and we will keep you informed as we work to clean up the impacted area. We understand that you may have additional questions, and we are available to speak with you at your convenience either on a call or in person at your home, if you prefer.

We sincerely apologize for any concern that this may be causing.

Thank you.

9589 0710 5270 1008 1692 91

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Barbara & Patricia Keeler
5011 Concord Road
Aston, PA 19014

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DEC 26 2025

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Postage \$1.07

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Sent To
Giovanni & Marta Cozza
5435 Chichester Ave
Aston, PA 19014

Postmark
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12/26/2025

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☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.07

Total Postage and Fees \$10.77

Sent To
Christopher Fisher
5001 Concord Road
Aston, PA 19014

Postmark
Here
DEC 26 2025

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To
Ronald Bohenek & Andrea Nolan
5021 Concord Road
Aston, PA 19014

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To
Bruce & Kathleen Emery
5437 Chichester Ave
Aston, PA 19014

Postmark
Here
DEC 26 2025

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To
Attilio Gaudiuso etux
5417 Chichester Ave
Aston, PA 19014

Postmark
Here
DEC 26 2025

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Sent To

John & Beth Mottola
5441 Chichester Ave
Aston, PA 19014

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To

Donald & Patricia Witt
5439 Chichester Ave
Aston, PA 19014

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To

Doris Pace
5933 Chichester Ave
Aston, PA 19014

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☐ Certified Mail Restricted Delivery \$ 0.00
☐ Adult Signature Required \$ 0.00
☐ Adult Signature Restricted Delivery \$ 0.00

Postage \$1.07

Total Postage and Fees \$10.77

Sent To

Dohn & Linda Uhlhorn
5921 Chichester Ave
Aston, PA 19014

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Postage \$1.07

Total Postage and Fees \$10.77

Sent To

James & Patricia Deery
5901 Chichester Ave
Aston, PA 19014

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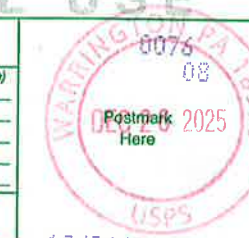
Postage \$1.07

Total Postage and Fees \$10.77

Sent To

Robert & Jennifer Groer
5927 Chichester Ave
Aston, PA 19014

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MIPC, LLC
920 Cherry Tree Road
Aston, PA 19014

December 30, 2025

Dear Neighbor,

As you may have learned, MIPC is conducting an ongoing remediation and investigation into the release of product from one of our storage tanks at our Chelsea Tank Farm in Aston, PA. Since discovering a mixture of hydrocarbon and water emanating from an old concrete drainpipe inside the tank farm, MIPC has kept those neighbors in the immediate vicinity as well as all relevant regulatory agencies and officials apprised of our efforts.

As we continue to work with both the Pennsylvania Department of Environmental Protection and the Pipeline Hazardous Materials and Safety Administration, we are expanding the area of our outreach to those neighbors who do not immediately border the western side of our property. This includes offering bottled water services to residents who utilize private wells for potable water as well as requesting your assistance to provide additional information as to the source of drinking water on your property.

If you have a private water well and would like us to provide bottled water service to your property, please contact us at 610-364-8426 or via email at MIPC1@monroe-energy.com with your name, address, and number of persons in your household, and we will have the bottled water service begin at your property within 24 hours of your request.

Please know that MIPC has tested the potable groundwater wells of 4 of our neighbors immediately adjacent to our property using a third-party, EPA-certified lab, and all four results confirmed that no petroleum-related compounds were found. However, your safety, health, and peace of mind are a priority to MIPC, and we therefore look forward to hearing from you, should you decide to opt-into this service.

Additionally, in the coming days you will receive a survey asking whether you have a private water well or you are connected to a public water source. Once you receive that questionnaire, we ask that you please take the time to fill that out and return it in the self-addressed, stamped envelope provided.

In addition to working with all relevant agencies, we are also regularly reporting on our efforts to local officials, and we will keep you informed as we work to clean up the impacted area. We understand that you may have additional questions, and we are available to speak with you at your convenience either on a call or in person at your home, if you prefer, so please contact us at the number or email listed above.

We sincerely apologize for any concern that this may be causing.

Thank you.



Shipment Confirmation Acceptance Notice

A. Mailer Action

Note to Mailer: The labels and volume associated to this form online, **must** match the labeled packages being presented to the USPS® employee with this form.

Shipment Date: 12/29/2025

Shipped From:

Name: LANGAN ENGINEERING

Address: 1818 MARKET STREET

City: PHILADELPHIA

State: PA ZIP+4® 19103

Type of Mail	Volume
Priority Mail Express®*	
Priority Mail®	
First-Class Package Service®	
Returns	
International*	
Other	39
Total	39

*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

B. USPS Action

Note to RSS Clerk:

1. Home screen > Mailing/Shipping > More
2. Select Shipment Confirm
3. Scan or enter the barcode/label number from PS Form 5630
4. Confirm the volume count message by selecting Yes or No
5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail.
Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE



9275 0901 1935 6200 0067 0738 31



Name and Address of Sender
LANGAN ENGINEERING
1818 MARKET STREET
SUITE 3300
PHILADELPHIA PA 19103

☐ Adult Signature Required	☐ Priority Mail Express
☐ Adult Signature Restricted Delivery	☐ Registered Mail
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☐ Priority Mail	

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USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
1. 9214 8901 8476 2500 3840 29	JOHN J EBRIGHT 5950 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
2. 9214 8901 8476 2500 3840 36	DONALD T REESE JR 5946 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
3. 9214 8901 8476 2500 3840 43	JONATHAN WESTMAN 5938 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
4. 9214 8901 8476 2500 3840 50	THOMAS AND LYN HAFICH 5932 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
5. 9214 8901 8476 2500 3840 67	FU ZEN CHANG 5904 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
6. 9214 8901 8476 2500 3840 74	THOMAS COLLINS III 5500 CHELSEA RD ASTON PA 19014	0.78	5.30								2.82			
7. 9214 8901 8476 2500 3840 81	MICHAEL CHILDS 5510 CHELSEA RD ASTON PA 19014	0.78	5.30								2.82			
8. 9214 8901 8476 2500 3840 98	ROGER CLAYCOMB JR 5400 CHICHESTER AVE ASTON PA 19014	0.78	5.30								2.82			
Total Number of Pieces Listed by Sender 39	Total Number of Pieces Received at Post Office Postmaster, Per (Name of receiving employee)													

Handling Charge - If Registered and over \$50,000 in value

Adult Signature Required

Adult Signature Restricted Delivery

Restricted Delivery

Return Receipt

Signature Confirmation

Signature Confirmation Restricted Delivery

Special Handling



Firm Mailing Book For Accountable Mail

Name and Address of Sender
LANGAN ENGINEERING
1818 MARKET STREET
SUITE 3300
PHILADELPHIA PA 19103

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Handling Charge

Actual Value if Registered

Insured Value

Due to Sender if COD

ASR Fee

ASRD Fee

RD Fee

RR Fee

SC Fee

SCRD Fee

SH Fee

9. 9214 8901 8476 2500 3841 04

JOHN AND FRANCIS MCAVOY
5300 CHICHESTER AVE
ASTON PA 19014

10. 9214 8901 8476 2500 3841 11

DONALD LONGWELL TRUSTEE
5310 CHICHESTER AVE
ASTON PA 19014

11. 9214 8901 8476 2500 3841 28

JOHN SCHMIDT
5320 CHICHESTER AVE
ASTON PA 19014

12. 9214 8901 8476 2500 3841 35

JAMES F HOLEFELDER ETUX
5340 CHICHESTER AVE
ASTON PA 19014

13. 9214 8901 8476 2500 3841 42

ROGER CLAYCOMB JR
5410 CHICHESTER AVE
ASTON PA 19014

14. 9214 8901 8476 2500 3841 59

ALLISON NEWTH
5446 CHICHESTER AVE
ASTON PA 19014

15. 9214 8901 8476 2500 3841 66

JAMES FLEETWOOD
5525 CHELSEA RD
ASTON PA 19014

16. 9214 8901 8476 2500 3841 73

WADE PRESCOTT
5545 CHELSEA RD
ASTON PA 19014

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PHILADELPHIA PA 19103

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17.	9214 8901 8476 2500 3841 80	HEINRICH HOREIS 5555 CHELSEA RD ASTON PA 19014	0.78	5.30							2.82			
18.	9214 8901 8476 2500 3841 97	ANDREW AND ANNETTE SCHWARTZ 1165 CONCORD RD ASTON PA 19014	0.78	5.30							2.82			
19.	9214 8901 8476 2500 3842 03	FLOYD AND JUDITH HARGUS 1170 CHELSEA RD ASTON PA 19014	0.78	5.30							2.82			
20.	9214 8901 8476 2500 3842 10	ARTHUR AND BARBARA BAUR 5111 CONCORD RD ASTON PA 19014	0.78	5.30							2.82			
21.	9214 8901 8476 2500 3842 27	DAVID AND CLARICE ANDREW 1148 CHELSEA RD ASTON PA 19014	0.78	5.30							2.82			
22.	9214 8901 8476 2500 3842 34	SANFORD SLAWTER JR 1166 CHELSEA RD ASTON PA 19014	0.78	5.30							2.82			
23.	9214 8901 8476 2500 3842 41	ANTHONY WESELYK 1176 CHELSEA RD ASTON PA 19014	0.78	5.30							2.82			
24.	9214 8901 8476 2500 3842 58	MARK MOORE 5214 CHICHESTER AVE ASTON PA 19014	0.78	5.30							2.82			

Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster, Per (Name of receiving employee)
39		

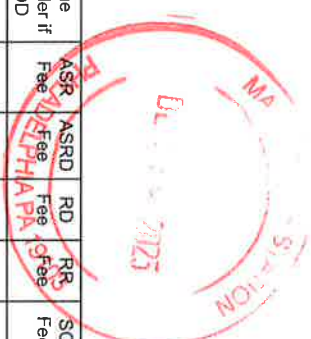


Name and Address of Sender
LANGAN ENGINEERING
1818 MARKET STREET
SUITE 3300
PHILADELPHIA PA 19103

Check type of mail or service

☐ Adult Signature Required	☐ Priority Mail Express
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☒ Certified Mail	☐ Return Receipt for Merchandise
☐ Certified Mail Restricted Delivery	☐ Signature Confirmation
☐ Collect on Delivery (COD)	☐ Signature Confirmation Restricted Delivery
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☐ Priority Mail	

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25.	9214 8901 8476 2500 3842 65	DANIEL KATHERINE AND CHRISTOPHER DERITIS 1184 CHELSEA RD ASTON PA 19014		0.78	5.30	Handling Charge - if Registered and over \$50,000 in value											
26.	9214 8901 8476 2500 3842 72	RICHARD AND LOUISA HAMALAK 1183 CHELSEA RD ASTON PA 19014		0.78	5.30												
27.	9214 8901 8476 2500 3842 89	JOHN AND SHARON CERVINO 1185 CHELSEA RD ASTON PA 19014		0.78	5.30												
28.	9214 8901 8476 2500 3842 96	ANNA MARIA PORT AND CUST FOR NICHOLAS JOSEPH PORT 1192 CHELSEA RD ASTON PA 19014		0.78	5.30												
29.	9214 8901 8476 2500 3843 02	ALBERT AND IRINA WATKINS 1191 CHELSEA RD ASTON PA 19014		0.78	5.30												
30.	9214 8901 8476 2500 3843 19	WM L PURFIELD JR ETUX 5580 CHELSEA RD ASTON PA 19014		0.78	5.30												
31.	9214 8901 8476 2500 3843 26	KATE CASSIDY AND KEVIN KIRBY 5570 CHELSEA RD ASTON PA 19014		0.78	5.30												
32.	9214 8901 8476 2500 3843 33	RONALD AND ROBIN CONTRADY 5560 CHELSEA RD ASTON PA 19014		0.78	5.30												
Total Number of Pieces Listed by Sender 39		Total Number of Pieces Received at Post Office		Postmaster, Per (Name of receiving employee)													

Handling Charge - if Registered and over \$50,000 in value

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Adult Signature Restricted Delivery

Restricted Delivery

Return Receipt

Signature Confirmation

Signature Confirmation Restricted Delivery

Special Handling



Firm Mailing Book For Accountable Mail

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1818 MARKET STREET
SUITE 3300
PHILADELPHIA PA 19103

Check type of mail or service

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33. 9214 8901 8476 2500 3843 40

CHARLES HARTSELL ETUX
5550 CHELSEA RD
ASTON PA 19014

0.78

5.30

2.82

34. 9214 8901 8476 2500 3843 57

LEWIS C MEGONICAL JR
5540 CHELSEA RD
ASTON PA 19014

0.78

5.30

2.82

35. 9214 8901 8476 2500 3843 64

GEORGE B FAY SR
5530 CHELSEA RD
ASTON PA 19014

0.78

5.30

2.82

36. 9214 8901 8476 2500 3843 71

MARK BULLARD
510 CHICHESTER AVE
ASTON PA 19014

0.78

5.30

2.82

37. 9214 8901 8476 2500 3843 88

ELWYN INC
5240 CHICHESTER AVE
ASTON PA 19014

0.78

5.30

2.82

38. 9214 8901 8476 2500 3843 95

ROXANNE STIPE
5213 CHICHESTER AVE
ASTON PA 19014

0.78

5.30

2.82

39. 9214 8901 8476 2500 3844 01

ROBERT AND NANCY DUNHAM
5212 CHICHESTER AVE
ASTON PA 19014

0.78

5.30

2.82

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Adult Signature Required

Adult Signature Restricted Delivery

Restricted Delivery

Return Receipt

Signature Confirmation

Signature Confirmation Restricted Delivery

Special Handling



MIPC, LLC
920 Cherry Tree Road
Aston, PA 19014

December 31, 2025

Dear Neighbor,

As the work at our Chelsea Tank Farm continues, we want to provide you with an update of the incident, our investigation and remediation efforts, as well as our path forward. To that end, please find the enclosed Fact Sheet. We understand that you may have additional questions and as such, in the near future we will be scheduling a community meeting to better address those questions or concerns. However, in the meantime, we remain available to speak with you at your convenience either over the phone or at your home if you prefer. Please contact us at 610-364-8426 if you would like to discuss things in more detail.

Furthermore, we would like to highlight two additional communications that you have or will soon receive from us regarding this event: (1) a drinking water survey, and (2) if you have a potable water well on your property, an offer to provide you with bottled water service.

- **Drinking Water Survey:** this is a survey asking whether you have a private water well or you are connected to a public water source. We ask that you please take the time to fill that out with the information you have available and return it. Alternatively, if you need assistance with the survey, please contact us and we can have someone call or come to your home to discuss more thoroughly. For your convenience, and in the event you have not yet received this survey, we have enclosed it here for your review.

If you do have a well on your property, it is our hope that you will grant us access so that we can sample your well water. MIPC will provide an independent testing consultant to arrange and collect the sample and will pay for the required testing at no cost to you. Additionally, once the test results are available, we will provide them for your review.

We are asking you to complete the questionnaire as soon as possible, using either the enclosed self-addressed stamped envelope or the other means provided. It is important that you complete and return the questionnaire even if you do not maintain a well on your property so that our records are updated, and to ensure that you will not be unnecessarily contacted in the future.

- **Bottled Water Service:** If you have a private water well and would like us to provide bottled water service to your property, please contact us at 610-364-8426 or via email at MIPC1@monroe-energy.com with your name, address, and number of persons in your household, and we will have the bottled water service begin at your property within 24 hours of your request.

Your safety, health and peace of mind are a priority to MIPC, and we value and appreciate your assistance and trust. We continue to work closely with all relevant agencies, we are also regularly reporting on our efforts to local officials, and we will keep you informed as we work to clean up the impacted area.

Please contact us at 610-364-8426 if you would like to discuss this further. Thank you, and we appreciate your understanding and cooperation.



CHELSEA TANK FARM GASOLINE RELEASE

MIPC CONTACT: **610-364-8426** OR **MIPC1@MONROE-ENERGY.COM**

DATE: **12/31/25**

DEAR NEIGHBOR,

AS YOU MAY KNOW, MIPC IS CURRENTLY WORKING TO REMEDIATE AN UNDERGROUND GASOLINE LEAK THAT WAS RECENTLY CONFIRMED AT OUR CHELSEA TANK FARM. THIS DOCUMENT SEEKS TO PROVIDE YOU WITH A GREATER LEVEL OF DETAIL ON WHAT HAPPENED AND WHAT YOU CAN EXPECT FROM US GOING FORWARD.

WHAT HAPPENED?

On August 18th, an MIPC operator noticed a faint odor while making routine checks in the northwest corner of our Chelsea Tank Farm. The source of the odor was determined to be a light gasoline and water mixture (approximately 2% gasoline to 98% water), emanating from a concrete stormwater drainage pipe. Upon discovery, MIPC immediately began implementing measures to contain and clean up the impacted water.

At the same time, MIPC notified state and county agencies, as well as municipal officials and our community emergency responders. MIPC also notified nearby neighbors in Bethel and Upper Chichester that there would be increased maintenance activity at the site. Additionally, fence line air quality readings were repeatedly taken, and results confirmed there were no impacts at the fence line of our facility.

INVESTIGATION PROCESS

After our initial mitigation efforts, MIPC began what would become a multi-month investigatory process to identify the source of the leak. Simultaneously, MIPC sought and received a PA Dep. of Environmental Protection permit to install a water treatment unit that has remained in operation to this day. Over the subsequent weeks, MIPC worked methodically to identify and rule out potential sources, which involved excavation of the concrete pipe, several soil digs (some to depths of 17 feet), numerous field tank valve and flange inspections, checking underground test stations, reviewing tank level data, and historical site data, and conducting static pressure tests and hydro tests of tanks in the impacted area. All investigatory efforts over this time did not yield a clear source or even the presence of a broader issue.

MIPC also provided regulatory agencies with updates and has complied with every request and recommendation conveyed to us.

SOURCE DISCOVERY

As we continued to investigate the area of impact, we installed soil borings (up to depths of 35 feet), and in early December, we discovered gasoline impacted soil. In some cases, we found gasoline impacted groundwater in one area of the site, including within 30 feet of our fence line. At this point, we made notifications to all Federal, State and County agencies as well as municipal officials, emergency responders, and elected officials. MIPC also conducted door-to-door community outreach, notifying our fence line neighbors living within roughly 1,000 feet of the impacted area.

On December 13th, one of our storage tanks, which was previously taken out of service and emptied as part of this investigation, was confirmed to have a 1/4-inch hole in the interior floor. This discovery then initiated a process by which we could calculate a maximum potential release total based on data and evidence. And this is how we arrived at the potential total release of 9,000 barrels of gasoline in the northwest corner of our property, which we reported to the Pipeline and Hazardous Materials Safety Administration (PHMSA).





OUR PATH FORWARD

MIPC is working with Langan, a specialized engineering and environmental firm widely known for its expertise in ground contamination, investigations, and recovery, as we continue to identify the extent of the impact as well as to conduct ongoing remediation efforts. We have begun to collect product from the borings that we dug, and we are developing a plan to present to PADEP for the long-term remediation of the site. MIPC is committed to ensuring that the entire affected area is remediated and returned to its original condition, and we remain steadfast in working with regulatory agencies, elected officials, and our local municipalities throughout this process.

KEY TAKEAWAYS

- No odors have been detected offsite or sheens observed in surface water.
- Nearby residential groundwater wells that have been tested by a third-party, EPA-certified lab had no petroleum compounds detected.

Per PADEP Requirements:

- Bottled water has been offered and will be provided, if requested, to residents within 1,000 ft. of our western boundary who utilize wells for potable water.
- MIPC has increased the frequency of fence line monitoring to a daily schedule utilizing prevailing EPA methodology.
- MIPC will hold public meetings in conjunction with our local municipalities as well as with state and federal agencies to continue communicating updates with our neighbors.
- An informational website will be established which will provide important information to our neighbors.



MAP KEY

- Please note that the 'Areas of Impact' are representative, and not drawn exactly to scale.
- The yellow lines correlate to municipal boundary lines.
- White lines correlate to private property lines.

OUTREACH

We understand that you may have additional questions, and we are available to speak with you at your convenience either on a call or in person at your home, if you prefer.

Thank you, and we appreciate your understanding as we work to fully remediate our site.

CONTACT INFO

610-364-8426

MIPC1@monroe-energy.com

**MIPC, LLC care of
Langan Engineering and Environmental Services, LLC
1818 Market Street, Suite 3300
Philadelphia, PA 19103**

Well Information Questionnaire Form and Request for Sampling

Please complete this form by providing the requested information in the spaces provided or by circling the most appropriate response and return the completed form to us within 10 days of receipt either by using the enclosed pre-paid self-addressed envelope, by emailing the form to MIPC1@monroe-energy.com, or by calling 610-364-8426 to request that form be picked up.

Date: _____

Property Street Address: _____

1. Indicate your relationship to this property. (Circle one)

Property Owner Renter/Lessee Other (Please explain) _____

Please provide your contact information/mail address and indicate if it is permissible for us to contact you.

NAME: _____

ADDRESS: _____

PHONE #: _____ (home) _____ (work) _____ (cell)

E-MAIL ADDRESS: _____

Please circle the phone number or email above that you prefer we use to contact you.

If you are a renter or tenant, please provide the owner's contact information.

NAME: _____

ADDRESS: _____

PHONE #: _____ (home) _____ (work) _____ (cell)

2. Is there a private water well located on the referenced property? **YES** **NO**
(If **NO**, please stop here and return the form)

3. Regarding the water well on the property, if known:
- What is the depth of the well? _____ feet
 - What is the depth of the well casing? _____ feet

- c. What is the depth of the well pump? _____ feet
- d. What is the pump capacity? _____ gallons per minute
4. Does the well supply water for any other residences? **YES** **NO** **unknown**
 If **YES**, how many, and what are the addresses of those residences?

5. Do you use the well water for drinking and/or cooking? **YES** **NO**
 (If **NO**, what is the source of your drinking/cooking water? _____)
6. Do you use the well water for:
- | | | |
|--------------------------------------|------------|-----------|
| bathing? | YES | NO |
| washing clothes | YES | NO |
| lawn/irrigation | YES | NO |
| watering food garden? | YES | NO |
| filling swimming pool/
recreation | YES | NO |
7. Has this well been tested recently?
- If **YES**, please enclose a copy of the results if possible.
- a) What date was it most recently tested? _____
- b) Who tested the well water? _____
- c) What was the well tested for? (circle all that apply)
- Bacteria
- Volatile Organics
- Metals
- Other (please explain) _____
- d) Did the sampling detect any contaminants? **YES** **NO**
 If **YES**, please specify

8. Do you have any treatment system(s) on the well? YES NO

If YES,

a) What type of water treatment system(s) do you have? (circle all that apply)

Softener

Iron removal

Sediment filter

Carbon filter

Turbidity removal

pH adjustment

Disinfection

Chlorinators

Acid neutralizer

Other (please specify): _____

b) Can the treatment system be bypassed to collect an untreated water sample? YES NO NOT SURE

If YES, how can the system be bypassed? (Circle all that apply)

Outside spigot bypasses treatment

Faucet in basement

Faucet on holding tank

Treatment system can be shut off

If NO,

Is there an outside spigot YES NO

Where is the spigot located? _____

9. ***Would you allow us to collect a water sample from your well for analysis?*** YES NO

10. Please provide any other information that you feel would be helpful for us to know about your well.

Please sign at the space provided below and return a signed copy of this Questionnaire either by using the enclosed self-addressed stamped envelope, by emailing the form to MIPC1@monroe-energy.com, or by calling 610-364-8426 to request that form be picked up.

Signature _____ Date _____

Please locate your well, septic system, and any underground tank (if applicable) relative to your house and the street. If there are any landmarks that help locate these features, please draw them in. Also, please indicate the street name in the blank provided.



(street name)

Property Owner/Resident's Name _____



MIDDLE CITY
2037 CHESTNUT ST FL 1
PHILADELPHIA, PA 19103-9997
www.usps.com

01/02/2026

01:31 PM

Product	Qty	Unit Price	Price
Ship Confirm Accept	1		\$0.00
Tracking #:			
9275 0901 1935 6200 0067 1256 53			
Grand Total:			\$0.00

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or scan this code with your mobile device.



or call 1-800-410-7420.

UFN: 416528-0139
Receipt #: 840-51900090-4-8619343-1
Clerk: 84



Shipment Confirmation Acceptance Notice

A. Mailer Action

Note to Mailer: The labels and volume associated to this form online, **must** match the labeled packages being presented to the USPS® employee with this form.

Shipment Date: 12/31/2025

Shipped From:

Name: LANGAN ENGINEERING

Address: 1818 MARKET STREET

City: PHILADELPHIA

State: PA ZIP+4® 19103

Type of Mail	Volume
Priority Mail Express®*	
Priority Mail®	
First-Class Package Service®	
Returns	
International*	
Other	85
Total	85

*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

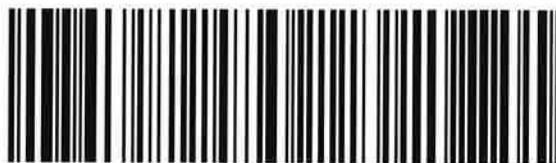
B. USPS Action

Note to RSS Clerk:

1. Home screen > Mailing/Shipping > More
2. Select Shipment Confirm
3. Scan or enter the barcode/label number from PS Form 5630
4. Confirm the volume count message by selecting Yes or No
5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail.
Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE



9275 0901 1935 6200 0067 1256 53



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Name and Address of Sender	USPS Tracking/Article Number	Check type of mail or service	Postage	(Extra Service) Fee	Handling Charge - If Registered and over \$50,000 in value	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee	
LANGAN ENGINEERING 1818 MARKET STREET SUITE 3300 PHILADELPHIA PA 19103	9214 8901 8476 2500 3858 42	☐ Adult Signature Required	1.07	5.30								2.82				
		☐ Adult Signature Restricted Delivery														☐ Priority Mail Express
		☒ Certified Mail														☐ Return Receipt for Merchandise
		☐ Certified Mail Restricted Delivery														☐ Signature Confirmation Restricted Delivery
	9214 8901 8476 2500 3858 59	☐ Collect on Delivery (COD)	1.07	5.30								2.82				
		☐ Insured Mail														☐ Signature Confirmation Restricted Delivery
		☐ Priority Mail														
	9214 8901 8476 2500 3858 66	Addresssee (Name, Street, City, State, & ZIP Code™)	1.07	5.30								2.82				
		ANDREW AND ANNETTE SCHWARTZ														
		1165 CONCORD RD														
		ASTON PA 19014														
	9214 8901 8476 2500 3858 73	FLOYD AND JUDITH HARGUS	1.07	5.30								2.82				
		1170 CHELSEA RD														
		ASTON PA 19014														
	9214 8901 8476 2500 3858 80	ARTHUR AND BARBARA BAUR	1.07	5.30								2.82				
		5111 CONCORD RD														
		ASTON PA 19014														
	9214 8901 8476 2500 3858 97	DAVID AND CLARICE	1.07	5.30								2.82				
		1148 CHELSEA RD														
		ASTON PA 19014														
	9214 8901 8476 2500 3859 03	JOHN EBRIGHT	1.07	5.30								2.82				
		5950 CHICHESTER AVE														
		ASTON PA 19014														
	9214 8901 8476 2500 3859 10	DONALD REESE JR	1.07	5.30								2.82				
		5946 CHICHESTER AVE														
		ASTON PA 19014														
		JOSEPH AND CHARLENE KAMMERER	1.07	5.30								2.82				
		1162 CHELSEA RD														
		ASTON PA 19014														
		MICHAEL AND STACIE FLORIO	1.07	5.30								2.82				
		1158 CHELSEA RD														
		ASTON PA 19014														





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USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge (If Registered and over \$50,000 in value)	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
9. 9214 9901 8478 2500 3859 27	JONATHAN WESTMAN 5938 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
10. 9214 9901 8478 2500 3859 34	SANFORD SLAWTER JR 1166 CHELSEA RD ASTON PA 19014	1.07	5.30								2.82			
11. 9214 9901 8478 2500 3859 41	THOMAS AND LYN HAFICH 5932 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
12. 9214 9901 8478 2500 3859 58	ROY AND QUEEN KEENE 5926 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
13. 9214 9901 8478 2500 3859 65	ANTHONY WESELYK 1176 CHELSEA RD ASTON PA 19014	1.07	5.30								2.82			
14. 9214 9901 8478 2500 3859 72	APARTMENTS AT PENN INC 5920 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
15. 9214 9901 8478 2500 3859 89	APARTMENTS AT PENN INC 5914 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
16. 9214 9901 8478 2500 3859 96	DANIEL KATHERINE AND CHRISTOPHER DERITIS 1184 CHELSEA RD ASTON PA 19014	1.07	5.30								2.82			
Total Number of Pieces Listed by Sender 85	Total Number of Pieces Received at Post Office 85	Postmaster, Per (Name of receiving employee)												



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Name and Address of Sender	USPS Tracking/Article Number	Check type of mail or service	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee	
LANGAN ENGINEERING 1818 MARKET STREET SUITE 3300 PHILADELPHIA PA 19103	17. 9214 8901 8478 2500 3860 09	☐ Adult Signature Required	1.07	5.30								2.82				
		☐ Adult Signature Restricted Delivery														☐ Registered Mail
		☒ Certified Mail														☐ Return Receipt for Merchandise
		☐ Certified Mail Restricted Delivery														☐ Signature Confirmation Restricted Delivery
	18. 9214 8901 8478 2500 3880 18	☐ Collect on Delivery (COD)	1.07	5.30								2.82				
		☐ Insured Mail														☐ Signature Confirmation Restricted Delivery
		☐ Priority Mail														
	19. 9214 8901 8478 2500 3860 23	ADDRESSEE (Name, Street, City, State, & ZIP Code™)	1.07	5.30								2.82				
		DANIEL DERITIS														
		5908 CHICHESTER AVE														
		ASTON PA 19014														
	20. 9214 8901 8478 2500 3880 30	FU ZEN CHANG	1.07	5.30								2.82				
		5904 CHICHESTER AVE														
		ASTON PA 19014														
	21. 9214 8901 8478 2500 3880 47	RICHARD AND LOUISE HAMALAK	1.07	5.30								2.82				
		1183 CHELSEA RD														
		ASTON PA 19014														
	22. 9214 8901 8478 2500 3860 54	JOHN AND SHARON CERVINO	1.07	5.30								2.82				
		1185 CHELSEA RD														
		ASTON PA 19014														
	23. 9214 8901 8478 2500 3880 81	ANNA MARIA & CUST FOR NICHOLAS JOSEPH PORT	1.07	5.30								2.82				
		1192 CHELSEA RD														
		ASTON PA 19014														
	24. 9214 8901 8478 2500 3880 78	ALBERT AND IRINA WATKINS	1.07	5.30								2.82				
		1191 CHELSEA RD														
		ASTON PA 19014														
		PAUL GROTHMANN	1.07	5.30								2.82				
		0 CHICHESTER AVE														
		ASTON PA 19014														
		HEINRICH HOREIS	1.07	5.30								2.82				
		5555 CHELSEA RD														
		ASTON PA 19014														





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25.	9214 6901 8476 2500 3860 85	JAMES FLEETWOOD 5525 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
26.	9214 6901 8476 2500 3860 92	MARK MOORE 5214 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
27.	9214 6901 8476 2500 3861 08	JAMES HOLEFELDER ETUX 5340 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
28.	9214 6901 8476 2500 3861 15	SHANE PATRICK DUNLEVEY 16 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
29.	9214 6901 8476 2500 3861 22	WILLIAM PEZZOTTI 5902 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
30.	9214 6901 8476 2500 3861 39	WM L PURFIELD JR ETUX 5580 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
31.	9214 6901 8476 2500 3861 46	WADE PRESCOTT 5545 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
32.	9214 6901 8476 2500 3861 53	KATE CASSIDY AND KEVIN KIRBY 5570 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			



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USPS Tracking/Article Number		Addressee (Name, Street, City, State, & ZIP Code™)		Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
33. 9214 8901 8478 2500 3861 80		RONALD AND ROBIN CONTRADY 5560 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
34. 9214 8901 8478 2500 3861 77		CHARLES HARTSELL ETUX 5550 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
35. 9214 8901 8478 2500 3881 84		LEWIS MEGONICAL JR 5540 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
36. 9214 8901 8478 2500 3861 91		GEORGE FAY SR 5530 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
37. 9214 8901 8478 2500 3862 07		MICHAEL CHILDS 5510 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
38. 9214 8901 8478 2500 3882 14		THOMAS COLLINS III 5500 CHELSEA RD ASTON PA 19014		1.07	5.30								2.82			
39. 9214 8901 8478 2500 3862 21		ALLISON NEWTH 5446 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
40. 9214 8901 8478 2500 3882 38		ROYER-GRAVES SCHOOL FOR THE BLIND INC 5440 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
Total Number of Pieces Listed by Sender 85		Postmaster, Per (Name of receiving employee)														



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USPS Tracking/Article Number		Addressee (Name, Street, City, State, & ZIP Code™)		Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
41.	9214 6901 8476 2500 3862 45	JING YI WENG 5430 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
42.	9214 6901 8476 2500 3862 52	MICHAEL WILLAUER 5420 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
43.	9214 8901 8476 2500 3862 69	ANABEL SOLANO 18 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
44.	9214 8901 8476 2500 3862 76	AJAY BABU OBLA KUMARESH 16 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
45.	9214 6901 8476 2500 3862 63	ROGER CLAYCOMB JR 5410 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
46.	9214 6901 8476 2500 3862 90	MAMERTO LEBITA 9 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
47.	9214 8901 8476 2500 3863 06	JOHN AND COOKE MAGEE 14 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
48.	9214 6901 8476 2500 3863 13	ROGER CLAYCOMB JR 5400 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			



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Total Number of Pieces Received at Post Office



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USPS Tracking/Article Number	Address (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
49. 9214 8901 8476 2500 3863 20	JOSEPH RAYER 7 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
50. 9214 8901 8476 2500 3863 37	LAWRENCE AND DIANE ARON 12 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
51. 9214 8901 8476 2500 3863 44	JOHN SHIELDS JR 5 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
52. 9214 8901 8476 2500 3863 51	JAMES AND KAREN MAGGIO 10 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
53. 9214 8901 8476 2500 3863 68	HARRY AND ELENI LUPA 3 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
54. 9214 8901 8476 2500 3863 75	JEFFREY BARRETT WRIGHT 5330 CHICHESTER AVE ASTON PA 19014	1.07	5.30								2.82			
55. 9214 8901 8476 2500 3863 82	SHAWN AND ALISON DECKY 8 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
56. 9214 8901 8476 2500 3863 99	GEORGE AND DEBORAH SWAYNGIM 1 CELLA DR ASTON PA 19014	1.07	5.30								2.82			
Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office													
85														



Firm Mailing Book For Accountable Mail

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LANGAN ENGINEERING 1818 MARKET STREET SUITE 3300 PHILADELPHIA PA 19103	☐ Adult Signature Required ☐ Adult Signature Restricted Delivery ☒ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery (COD) ☐ Insured Mail ☐ Priority Mail	
USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	
57. 9214 6901 8476 2500 3864 05	JOHN SCHMIDT 5320 CHICHESTER AVE ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
58. 9214 6901 8476 2500 3864 12	JOSEPH AND JOHANN MILLER 1 BERNARD ST ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
59. 9214 6901 8476 2500 3864 29	WILLIAM AND GINA GAINES 6 CELLA DR ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
60. 9214 6901 8476 2500 3864 36	DONALD LONGWELL TRUSTEE 5310 CHICHESTER AVE ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
61. 9214 6901 8476 2500 3864 43	JOHN JR AND LEE ANNE MONTGOMERY 3 BERNARD ST ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
62. 9214 6901 8476 2500 3864 50	PHILIP AND TINA RYBAK 5 BERNARD ST ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
63. 9214 6901 8476 2500 3864 67	STEVE MATUS AND PATRYCIA PEISCIK 7 BERNARD ST ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
64. 9214 6901 8476 2500 3864 74	GREGORY AND MARGARET CALOGERO 9 BERNARD ST ASTON PA 19014	Postage 1.07 (Extra Service) Fee 5.30 Handling Charge Actual Value if Registered Insured Value Due Sender if COD ASR Fee ASRD Fee RD Fee RR Fee 2.82 SC Fee SCRD Fee SH Fee
Total Number of Pieces Listed by Sender 85	Total Number of Pieces Received at Post Office 85	Postmaster, Per (Name of receiving employee)



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Name and Address of Sender LANGAN ENGINEERING 1818 MARKET STREET SUITE 3300 PHILADELPHIA PA 19103		Check type of mail or service ☐ Adult Signature Required ☐ Adult Signature Restricted Delivery ☒ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery (COD) ☐ Insured Mail ☐ Priority Mail ☐ Priority Mail Express ☐ Registered Mail ☐ Return Receipt for Merchandise ☐ Signature Confirmation ☐ Signature Confirmation Restricted Delivery		Affix Stamp Here (for additional copies of this receipt). Postmark with Date of Receipt.												
USPS Tracking/Article Number		Addressee (Name, Street, City, State, & ZIP Code™)		Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
65. 9214 8901 8476 2500 3884 81		JEFFREY AND LAVERNE ALEXANDER 4 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
66. 9214 8901 8476 2500 3864 98		JOHN AND FRANCIS MCAVOY 5300 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
67. 9214 8901 8476 2500 3865 04		ANGELA MANZI 2 CELLA DR ASTON PA 19014		1.07	5.30								2.82			
68. 9214 8901 8476 2500 3865 11		BARBARA STOBART 2 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
69. 9214 8901 8476 2500 3885 28		TODD AND ALEATHIA MORRIS 11 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
70. 9214 8901 8476 2500 3865 35		LAWRENCE AND MARY MALEIKE 4 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
71. 9214 8901 8476 2500 3865 42		ANGEL CRUZ 13 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
72. 9214 8901 8476 2500 3865 59		EDWARD JR AND KARIMAH RYANIS 6 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			

Total Number of Pieces Listed by Sender 85	Total Number of Pieces Received at Post Office	Postmaster, Per (Name of receiving employee)



Firm Mailing Book For Accountable Mail

Name and Address of Sender LANGAN ENGINEERING 1818 MARKET STREET SUITE 3300 PHILADELPHIA PA 19103		Check type of mail or service ☐ Adult Signature Required ☐ Adult Signature Restricted Delivery ☒ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery (COD) ☐ Insured Mail ☐ Priority Mail ☐ Priority Mail Express ☐ Registered Mail ☐ Return Receipt for Merchandise ☐ Signature Confirmation ☐ Signature Confirmation Restricted Delivery		Affix Stamp Here (for additional copies of this receipt). Postmark with Date of Receipt.												
USPS Tracking/Article Number		Addressee (Name, Street, City, State, & ZIP Code™)		Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
73.	9214 6901 8476 2500 3665 66	CHARLES AND LINDA CATONE 8 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
74.	9214 6901 8476 2500 3665 73	BRUCE AND JONI ERTWINE 10 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
75.	9214 6901 8476 2500 3665 80	MATTHEW GAINES AND ABIGAIL DEVANEY 12 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
76.	9214 6901 8476 2500 3665 97	JOSEPH AND RUTH ANN BALOCCO 14 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
77.	9214 6901 8476 2500 3665 03	ELWYN INC 5240 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
78.	9214 6901 8476 2500 3665 10	JOHN DECHANT 18 BERNARD ST ASTON PA 19014		1.07	5.30								2.82			
79.	9214 6901 8476 2500 3665 27	ROXANNE STIPE 5213 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			
80.	9214 6901 8476 2500 3665 34	ROBERT AND NANCY DUNHAM 5212 CHICHESTER AVE ASTON PA 19014		1.07	5.30								2.82			



Total Number of Pieces Listed by Sender: 85
Total Number of Pieces Received at Post Office: 85

Postmaster, Per (Name of receiving employee)



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Addressee (Name, Street, City, State, & ZIP Code™)

MARK BULLARD
510 CHICHESTER AVE
ASTON PA 19014

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ATTACHMENT 2

Soil Analytical Reports: December 2025

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25304

Sampling Date: 12/15/25

Report to:

Langan Engineering & Environmental
1818 Market Street Suite 3300
Philadelphia, PA 19103
csavidge@Langan.com; rjohnston@Langan.com;
jsmith@Langan.com; jloeffel@langan.com;
ATTN: Cortney Savidge

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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START SURVEY

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Sample Summary

Langan Engineering & Environmental

Job No: JE25304

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25304-1	12/15/25	16:00	DD/ZA	12/16/25	SO Soil	SB-MW-9/16.0
JE25304-2	12/15/25	16:05	DD/ZA	12/16/25	SO Soil	SB-MW-9/16.5
JE25304-3	12/15/25	16:20	DD/ZA	12/16/25	AQ Field Blank Soil	FB_12/15/2025

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25304

Site: MIPC Aston, PA

Report Date 12/30/2025 4:26:50 A

On 12/16/2025, 2 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25304 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V2U2869

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25646-9MS, JE25646-9MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: V3C8559

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25277-1MS, JE25277-2DUP were used as the QC samples indicated.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN77325

- Sample(s) JE25301-5DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE25304
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/15/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25304-1 SB-MW-9/16.0

Benzene	1.0	0.72	0.66	ug/kg	SW846 8260D
Toluene	3.7	1.4	0.76	ug/kg	SW846 8260D
Xylene (total)	1.8	1.4	0.66	ug/kg	SW846 8260D

JE25304-2 SB-MW-9/16.5

Toluene	1.5 J	1.6	0.82	ug/kg	SW846 8260D

JE25304-3 FB_12/15/2025

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-MW-9/16.0	Date Sampled:	12/15/25
Lab Sample ID:	JE25304-1	Date Received:	12/16/25
Matrix:	SO - Soil	Percent Solids:	63.9
Method:	SW846 8260D SW846 5035		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C197787.D	1	12/17/25 18:19	JN	12/17/25 08:00	n/a	V3C8559
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.0	0.72	0.66	ug/kg	
108-88-3	Toluene	3.7	1.4	0.76	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	0.66	ug/kg	
1330-20-7	Xylene (total)	1.8	1.4	0.66	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.4	0.68	ug/kg	
91-20-3	Naphthalene	ND	7.2	3.6	ug/kg	
98-82-8	Isopropylbenzene	ND	2.9	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.9	0.72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.9	0.62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-124%
17060-07-0	1,2-Dichloroethane-D4	111%		75-133%
2037-26-5	Toluene-D8	98%		79-125%
460-00-4	4-Bromofluorobenzene	109%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-MW-9/16.5	Date Sampled:	12/15/25
Lab Sample ID:	JE25304-2	Date Received:	12/16/25
Matrix:	SO - Soil	Percent Solids:	63.0
Method:	SW846 8260D SW846 5035		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C197788.D	1	12/17/25 18:45	JN	12/17/25 08:00	n/a	V3C8559
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.78	0.71	ug/kg	J
108-88-3	Toluene	1.5	1.6	0.82	ug/kg	
100-41-4	Ethylbenzene	ND	1.6	0.70	ug/kg	
1330-20-7	Xylene (total)	ND	1.6	0.71	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.6	0.73	ug/kg	
91-20-3	Naphthalene	ND	7.8	3.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	0.78	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	0.67	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-124%
17060-07-0	1,2-Dichloroethane-D4	112%		75-133%
2037-26-5	Toluene-D8	98%		79-125%
460-00-4	4-Bromofluorobenzene	112%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB_12/15/2025	Date Sampled:	12/15/25
Lab Sample ID:	JE25304-3	Date Received:	12/16/25
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U83750.D	1	12/24/25 05:36	NW	n/a	n/a	V2U2869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	104%		82-114%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200
www.sgs.com/ehsusa

12928

5.1

SGS

SGS Sample Receipt Summary

Job Number: JE25304

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/16/2025 6:06:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (1.1);

Cooler Temps (Corrected) °C: Cooler 1: (1.2);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☐	☒	☐
2. Trip Blank listed on COC:	☐	☒	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25304: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C8559-MB	3C197776.D	1	12/17/25	JN	n/a	n/a	V3C8559

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-1, JE25304-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.5	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-124%
17060-07-0	1,2-Dichloroethane-D4	103%	75-133%
2037-26-5	Toluene-D8	99%	79-125%
460-00-4	4-Bromofluorobenzene	111%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2U2869-MB	2U83732.D	1	12/24/25	NW	n/a	n/a	V2U2869

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100%
17060-07-0	1,2-Dichloroethane-D4	113%
2037-26-5	Toluene-D8	104%
460-00-4	4-Bromofluorobenzene	104%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

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Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C8559-BS	3C197774.D	1	12/17/25	JN	n/a	n/a	V3C8559

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-1, JE25304-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	47.3	95	82-119
100-41-4	Ethylbenzene	50	48.0	96	83-115
98-82-8	Isopropylbenzene	50	50.2	100	81-122
1634-04-4	Methyl Tert Butyl Ether	50	49.6	99	75-126
91-20-3	Naphthalene	50	50.1	100	71-129
108-88-3	Toluene	50	46.5	93	82-118
95-63-6	1,2,4-Trimethylbenzene	50	50.5	101	80-119
108-67-8	1,3,5-Trimethylbenzene	50	49.9	100	79-120
1330-20-7	Xylene (total)	150	147	98	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	80-124%
17060-07-0	1,2-Dichloroethane-D4	105%	75-133%
2037-26-5	Toluene-D8	98%	79-125%
460-00-4	4-Bromofluorobenzene	108%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2U2869-BS	2U83730.D	1	12/24/25	NW	n/a	n/a	V2U2869

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.1	102	80-115
100-41-4	Ethylbenzene	50	50.2	100	78-116
98-82-8	Isopropylbenzene	50	52.4	105	78-121
1634-04-4	Methyl Tert Butyl Ether	50	51.2	102	76-123
91-20-3	Naphthalene	50	47.6	95	64-136
108-88-3	Toluene	50	52.1	104	79-116
95-63-6	1,2,4-Trimethylbenzene	50	51.3	103	78-120
108-67-8	1,3,5-Trimethylbenzene	50	50.8	102	77-120
1330-20-7	Xylene (total)	150	155	103	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	80-120%
2037-26-5	Toluene-D8	105%	80-120%
460-00-4	4-Bromofluorobenzene	103%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

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Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25277-1MS	3C197784.D	1	12/17/25	JN	n/a	n/a	V3C8559
JE25277-1	3C197779.D	1	12/17/25	JN	n/a	n/a	V3C8559

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-1, JE25304-2

CAS No.	Compound	JE25277-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
71-43-2	Benzene	ND		48.7	41.8	86	61-132
100-41-4	Ethylbenzene	ND		48.7	42.6	87	51-133
98-82-8	Isopropylbenzene	ND		48.7	43.4	89	44-142
1634-04-4	Methyl Tert Butyl Ether	ND		48.7	38.6	79	62-125
91-20-3	Naphthalene	ND		48.7	37.7	77	13-149
108-88-3	Toluene	ND		48.7	41.9	86	56-135
95-63-6	1,2,4-Trimethylbenzene	ND		48.7	43.9	90	30-149
108-67-8	1,3,5-Trimethylbenzene	ND		48.7	43.9	90	36-145
1330-20-7	Xylene (total)	ND		146	129	88	50-138

CAS No.	Surrogate Recoveries	MS	JE25277-1	Limits
1868-53-7	Dibromofluoromethane	98%	99%	80-124%
17060-07-0	1,2-Dichloroethane-D4	106%	111%	75-133%
2037-26-5	Toluene-D8	99%	99%	79-125%
460-00-4	4-Bromofluorobenzene	110%	111%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25646-9MS	2U83742.D	20	12/24/25	NW	n/a	n/a	V2U2869
JE25646-9MSD	2U83744.D	20	12/24/25	NW	n/a	n/a	V2U2869
JE25646-9	2U83734.D	20	12/24/25	NW	n/a	n/a	V2U2869

The QC reported here applies to the following samples: Method: SW846 8260D

JE25304-3

CAS No.	Compound	JE25646-9 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	1000	1010	101	1000	1050	105	4	49-137/12
100-41-4	Ethylbenzene	ND	1000	1000	100	1000	1020	102	2	37-144/12
98-82-8	Isopropylbenzene	ND	1000	1030	103	1000	1050	105	2	71-126/13
1634-04-4	Methyl Tert Butyl Ether	ND	1000	999	100	1000	1030	103	3	66-124/12
91-20-3	Naphthalene	ND	1000	920	92	1000	956	96	4	49-146/18
108-88-3	Toluene	1830	1000	2700	87	1000	2750	92	2	46-139/12
95-63-6	1,2,4-Trimethylbenzene	ND	1000	1030	103	1000	1050	105	2	39-147/13
108-67-8	1,3,5-Trimethylbenzene	ND	1000	1020	102	1000	1030	103	1	56-136/14
1330-20-7	Xylene (total)	50.4	3000	3130	103	3000	3200	105	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25646-9	Limits
1868-53-7	Dibromofluoromethane	100%	100%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	114%	113%	80-120%
2037-26-5	Toluene-D8	105%	105%	104%	80-120%
460-00-4	4-Bromofluorobenzene	103%	103%	105%	82-114%

* = Outside of Control Limits.

Duplicate Summary

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Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25277-2DUP	3C197786.D	1	12/17/25	JN	n/a	n/a	V3C8559
JE25277-2	3C197780.D	1	12/17/25	JN	n/a	n/a	V3C8559

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25304-1, JE25304-2

CAS No.	Compound	JE25277-2 ug/kg	DUP Q	Q	RPD	Limits
71-43-2	Benzene	ND	ND		nc	44
100-41-4	Ethylbenzene	ND	ND		nc	35
98-82-8	Isopropylbenzene	ND	ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND	ND		nc	21
91-20-3	Naphthalene	ND	ND		nc	20
108-88-3	Toluene	ND	ND		nc	37
95-63-6	1,2,4-Trimethylbenzene	ND	ND		nc	32
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	33
1330-20-7	Xylene (total)	ND	ND		nc	60

CAS No.	Surrogate Recoveries	DUP	JE25277-2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	80-124%
17060-07-0	1,2-Dichloroethane-D4	109%	111%	75-133%
2037-26-5	Toluene-D8	99%	98%	79-125%
460-00-4	4-Bromofluorobenzene	113%	112%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V2U2828-BFB	Injection Date: 11/05/25
Lab File ID: 2U81677.D	Injection Time: 20:29
Instrument ID: GCMS2U	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	30795	20.2	Pass
75	30.0 - 60.0% of mass 95	77128	50.7	Pass
95	Base peak, 100% relative abundance	152235	100.0	Pass
96	5.0 - 9.0% of mass 95	10449	6.86	Pass
173	Less than 2.0% of mass 174	1440	0.95 (1.10) ^a	Pass
174	50.0 - 120.0% of mass 95	131448	86.3	Pass
175	5.0 - 9.0% of mass 174	9640	6.33 (7.33) ^a	Pass
176	95.0 - 101.0% of mass 174	125637	82.5 (95.6) ^a	Pass
177	5.0 - 9.0% of mass 176	8497	5.58 (6.76) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2U2828-IC2828	2U81679.D	11/05/25	21:15	00:46	Initial cal 0.2
V2U2828-IC2828	2U81681.D	11/05/25	21:44	01:15	Initial cal 0.5
V2U2828-IC2828	2U81683.D	11/05/25	22:14	01:45	Initial cal 1
V2U2828-IC2828	2U81685.D	11/05/25	22:44	02:15	Initial cal 2
V2U2828-IC2828	2U81687.D	11/05/25	23:13	02:44	Initial cal 4
V2U2828-IC2828	2U81689.D	11/05/25	23:43	03:14	Initial cal 8
V2U2828-IC2828	2U81691.D	11/06/25	00:13	03:44	Initial cal 20
V2U2828-ICC2828	2U81693.D	11/06/25	00:43	04:14	Initial cal 50
V2U2828-IC2828	2U81695.D	11/06/25	01:12	04:43	Initial cal 100
V2U2828-IC2828	2U81697.D	11/06/25	01:42	05:13	Initial cal 200
V2U2828-ICV2828	2U81703.D	11/06/25	03:11	06:42	Initial cal verification 50
V2U2828-ICV2828	2U81705.D	11/06/25	03:41	07:12	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V2U2868-BFB
Lab File ID: 2U83678.D
Instrument ID: GCMS2U
Injection Date: 12/23/25
Injection Time: 11:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	52816	22.6	Pass
75	30.0 - 60.0% of mass 95	115947	49.6	Pass
95	Base peak, 100% relative abundance	233557	100.0	Pass
96	5.0 - 9.0% of mass 95	14862	6.36	Pass
173	Less than 2.0% of mass 174	1945	0.83 (1.02) ^a	Pass
174	50.0 - 120.0% of mass 95	189781	81.3	Pass
175	5.0 - 9.0% of mass 174	13690	5.86 (7.21) ^a	Pass
176	95.0 - 101.0% of mass 174	182976	78.3 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	11056	4.73 (6.04) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2U2868-CC2828	2U83678.D	12/23/25	11:26	00:00	Continuing cal 20
V2U2868-CC2828	2U83680.D	12/23/25	12:18	00:52	Continuing cal 2
V2U2868-BS	2U83682.D	12/23/25	12:47	01:21	Blank Spike
V2U2868-MB	2U83686.D	12/23/25	13:46	02:20	Method Blank
JE25472-2	2U83688.D	12/23/25	14:16	02:50	(used for QC only; not part of job JE25304)
JE25472-4	2U83690.D	12/23/25	14:46	03:20	(used for QC only; not part of job JE25304)
ZZZZZZ	2U83692.D	12/23/25	15:16	03:50	(unrelated sample)
ZZZZZZ	2U83694.D	12/23/25	15:45	04:19	(unrelated sample)
ZZZZZZ	2U83696.D	12/23/25	16:15	04:49	(unrelated sample)
JE25472-2MS	2U83698.D	12/23/25	16:45	05:19	Matrix Spike
JE25472-4DUP	2U83702.D	12/23/25	17:44	06:18	Duplicate
ZZZZZZ	2U83704.D	12/23/25	18:14	06:48	(unrelated sample)
ZZZZZZ	2U83706.D	12/23/25	18:44	07:18	(unrelated sample)
ZZZZZZ	2U83708.D	12/23/25	19:13	07:47	(unrelated sample)
ZZZZZZ	2U83710.D	12/23/25	19:43	08:17	(unrelated sample)
ZZZZZZ	2U83712.D	12/23/25	20:13	08:47	(unrelated sample)
ZZZZZZ	2U83714.D	12/23/25	20:42	09:16	(unrelated sample)
ZZZZZZ	2U83716.D	12/23/25	21:12	09:46	(unrelated sample)
ZZZZZZ	2U83718.D	12/23/25	21:42	10:16	(unrelated sample)
ZZZZZZ	2U83720.D	12/23/25	22:11	10:45	(unrelated sample)
ZZZZZZ	2U83722.D	12/23/25	22:41	11:15	(unrelated sample)
ZZZZZZ	2U83724.D	12/23/25	23:11	11:45	(unrelated sample)
V2U2869-CC2828	2U83728.D	12/24/25	00:10	12:44	Continuing cal 50
V2U2869-BS	2U83730.D	12/24/25	00:40	13:14	Blank Spike

Instrument Performance Check (BFB)

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Job Number: JE25304

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample: V2U2868-BFB

Injection Date: 12/23/25

Lab File ID: 2U83678.D

Injection Time: 11:26

Instrument ID: GCMS2U

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2U2869-MB	2U83732.D	12/24/25	01:10	13:44	Method Blank
JE25646-9	2U83734.D	12/24/25	01:39	14:13	(used for QC only; not part of job JE25304)
ZZZZZZ	2U83736.D	12/24/25	02:09	14:43	(unrelated sample)
ZZZZZZ	2U83738.D	12/24/25	02:39	15:13	(unrelated sample)
ZZZZZZ	2U83740.D	12/24/25	03:08	15:42	(unrelated sample)
JE25646-9MS	2U83742.D	12/24/25	03:38	16:12	Matrix Spike
JE25646-9MSD	2U83744.D	12/24/25	04:07	16:41	Matrix Spike Duplicate
ZZZZZZ	2U83746.D	12/24/25	04:37	17:11	(unrelated sample)
ZZZZZZ	2U83748.D	12/24/25	05:07	17:41	(unrelated sample)
JE25304-3	2U83750.D	12/24/25	05:36	18:10	FB_12/15/2025
ZZZZZZ	2U83752.D	12/24/25	06:06	18:40	(unrelated sample)
ZZZZZZ	2U83754.D	12/24/25	06:36	19:10	(unrelated sample)
ZZZZZZ	2U83756.D	12/24/25	07:05	19:39	(unrelated sample)
ZZZZZZ	2U83758.D	12/24/25	07:35	20:09	(unrelated sample)
ZZZZZZ	2U83760.D	12/24/25	08:05	20:39	(unrelated sample)
ZZZZZZ	2U83762.D	12/24/25	08:35	21:09	(unrelated sample)
V2U2870-CC2828	2U83767.D	12/24/25	10:08	22:42	Continuing cal 20
V2U2870-CC2839	2U83769.D	12/24/25	10:53	23:27	Continuing cal 20
V2U2870-BS	2U83771.D	12/24/25	11:22	23:56	Blank Spike
V2U2870-MB	2U83775.D	12/24/25	12:22	24:56	Method Blank

6.6.2

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Instrument Performance Check (BFB)

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Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V3C8554-BFB
Lab File ID: 3C197620.D
Instrument ID: GCMS3C
Injection Date: 12/09/25
Injection Time: 17:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	75888	20.3	Pass
75	30.0 - 60.0% of mass 95	181269	48.5	Pass
95	Base peak, 100% relative abundance	373888	100.0	Pass
96	5.0 - 9.0% of mass 95	24501	6.55	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	363051	97.1	Pass
175	5.0 - 9.0% of mass 174	26853	7.18 (7.40) ^a	Pass
176	95.0 - 101.0% of mass 174	350101	93.6 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	23603	6.31 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C8554-IC8554	3C197621.D	12/09/25	18:08	00:30	Initial cal 0.2
V3C8554-IC8554	3C197622.D	12/09/25	18:34	00:56	Initial cal 0.5
V3C8554-IC8554	3C197623.D	12/09/25	18:59	01:21	Initial cal 1
V3C8554-IC8554	3C197624.D	12/09/25	19:25	01:47	Initial cal 2
V3C8554-IC8554	3C197625.D	12/09/25	19:51	02:13	Initial cal 4
V3C8554-IC8554	3C197626.D	12/09/25	20:17	02:39	Initial cal 8
V3C8554-IC8554	3C197627.D	12/09/25	20:42	03:04	Initial cal 20
V3C8554-ICC8554	3C197628.D	12/09/25	21:08	03:30	Initial cal 50
V3C8554-IC8554	3C197629.D	12/09/25	21:34	03:56	Initial cal 100
V3C8554-IC8554	3C197630.D	12/09/25	22:00	04:22	Initial cal 200
V3C8554-ICV8554	3C197633.D	12/09/25	23:17	05:39	Initial cal verification 50
V3C8554-ICV8554	3C197634.D	12/09/25	23:43	06:05	Initial cal verification 50

Instrument Performance Check (BFB)

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Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V3C8554-BFB2
Lab File ID: 3C197637.D
Instrument ID: GCMS3C
Injection Date: 12/10/25
Injection Time: 15:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	67605	20.4	Pass
75	30.0 - 60.0% of mass 95	159253	48.1	Pass
95	Base peak, 100% relative abundance	331093	100.0	Pass
96	5.0 - 9.0% of mass 95	22680	6.85	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	318336	96.1	Pass
175	5.0 - 9.0% of mass 174	23485	7.09 (7.38) ^a	Pass
176	95.0 - 101.0% of mass 174	308651	93.2 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	20691	6.25 (6.70) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C8554-ICV8554	3C197638.D	12/10/25	15:51	00:26	Initial cal verification 50
V3C8555-CC8554	3C197641.D	12/11/25	10:55	19:30	Continuing cal 50
V3C8555-BS	3C197642.D	12/11/25	11:45	20:20	Blank Spike
V3C8555-MB	3C197644.D	12/11/25	12:44	21:19	Method Blank
JE24609-5	3C197645.D	12/11/25	13:10	21:45	(used for QC only; not part of job JE25304)
JE24609-6	3C197646.D	12/11/25	13:36	22:11	(used for QC only; not part of job JE25304)
ZZZZZZ	3C197647.D	12/11/25	14:02	22:37	(unrelated sample)
ZZZZZZ	3C197648.D	12/11/25	14:27	23:02	(unrelated sample)
ZZZZZZ	3C197649.D	12/11/25	14:53	23:28	(unrelated sample)
ZZZZZZ	3C197650.D	12/11/25	15:19	23:54	(unrelated sample)
ZZZZZZ	3C197651.D	12/11/25	15:45	24:20	(unrelated sample)
ZZZZZZ	3C197652.D	12/11/25	16:11	24:46	(unrelated sample)

Surrogate Recovery Summary

Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25304-3	2U83750.D	101	113	103	104
JE25646-9MS	2U83742.D	100	113	105	103
JE25646-9MSD	2U83744.D	100	114	105	103
V2U2869-BS	2U83730.D	100	113	105	103
V2U2869-MB	2U83732.D	100	113	104	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Surrogate Recovery Summary

Job Number: JE25304
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25304-1	3C197787.D	102	111	98	109
JE25304-2	3C197788.D	101	112	98	112
JE25277-1MS	3C197784.D	98	106	99	110
JE25277-2DUP	3C197786.D	101	109	99	113
V3C8559-BS	3C197774.D	99	105	98	108
V3C8559-MB	3C197776.D	99	103	99	111

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25404

Sampling Date: 12/17/25

Report to:

Langan Engineering & Environmental
1818 Market Street Suite 3300
Philadelphia, PA 19103
csavidge@Langan.com; rjohnston@Langan.com;
jsmith@Langan.com; jloeffel@langan.com;
ATTN: Cortney Savidge

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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START SURVEY

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Sample Summary

Langan Engineering & Environmental

Job No: JE25404

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25404-1	12/17/25	14:35	ZA/PM	12/17/25	SO Soil	SB-MW-10_31
JE25404-2	12/17/25	14:50	ZA/PM	12/17/25	SO Soil	SB-MW-10_28
JE25404-3	12/17/25	14:55	ZA/PM	12/17/25	AQ Field Blank Soil	FB_12172025

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25404

Site: MIPC Aston, PA

Report Date 1/2/2026 10:34:15 AM

On 12/17/2025, 2 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25404 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VL11548

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25750-1MS, JE25750-1MSD were used as the QC samples indicated.
- JE25404-3 for Naphthalene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: SO

Batch ID: V1C9112

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25356-1MS, JE25356-2DUP were used as the QC samples indicated.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN77403

- Sample(s) JE25357-1DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, January 2, 2026

Page 1 of 1

Summary of Hits

Job Number: JE25404
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/17/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25404-1 SB-MW-10_31

Toluene	1.8	0.97	0.51	ug/kg	SW846 8260D
Ethylbenzene	0.69 J	0.97	0.44	ug/kg	SW846 8260D
Xylene (total)	4.3	0.97	0.44	ug/kg	SW846 8260D
1,2,4-Trimethylbenzene	2.0	1.9	0.48	ug/kg	SW846 8260D
1,3,5-Trimethylbenzene	0.57 J	1.9	0.42	ug/kg	SW846 8260D

JE25404-2 SB-MW-10_28

No hits reported in this sample.

JE25404-3 FB_12172025

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-MW-10_31		
Lab Sample ID:	JE25404-1	Date Sampled:	12/17/25
Matrix:	SO - Soil	Date Received:	12/17/25
Method:	SW846 8260D SW846 5035	Percent Solids:	83.5
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C212199.D	1	12/18/25 18:37	JN	12/18/25 08:00	n/a	V1C9112
Run #2							

	Initial Weight
Run #1	6.2 g
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.48	0.44	ug/kg	
108-88-3	Toluene	1.8	0.97	0.51	ug/kg	
100-41-4	Ethylbenzene	0.69	0.97	0.44	ug/kg	J
1330-20-7	Xylene (total)	4.3	0.97	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.97	0.45	ug/kg	
91-20-3	Naphthalene	ND	4.8	2.4	ug/kg	
98-82-8	Isopropylbenzene	ND	1.9	1.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	2.0	1.9	0.48	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	0.57	1.9	0.42	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		80-124%
17060-07-0	1,2-Dichloroethane-D4	103%		75-133%
2037-26-5	Toluene-D8	99%		79-125%
460-00-4	4-Bromofluorobenzene	98%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-MW-10_28	Date Sampled:	12/17/25
Lab Sample ID:	JE25404-2	Date Received:	12/17/25
Matrix:	SO - Soil	Percent Solids:	70.8
Method:	SW846 8260D SW846 5035		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C212200.D	1	12/18/25 19:05	JN	12/18/25 08:00	n/a	V1C9112
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.65	0.60	ug/kg	
108-88-3	Toluene	ND	1.3	0.69	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.59	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.60	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.61	ug/kg	
91-20-3	Naphthalene	ND	6.5	3.3	ug/kg	
98-82-8	Isopropylbenzene	ND	2.6	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.6	0.65	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.6	0.56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-124%
17060-07-0	1,2-Dichloroethane-D4	101%		75-133%
2037-26-5	Toluene-D8	102%		79-125%
460-00-4	4-Bromofluorobenzene	101%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB_12172025	Date Sampled:	12/17/25
Lab Sample ID:	JE25404-3	Date Received:	12/17/25
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L375972.D	1	12/30/25 12:25	BK	n/a	n/a	VL11548
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		80-120%
17060-07-0	1,2-Dichloroethane-D4	87%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS Sample Receipt Summary

Job Number: je25404

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/17/2025 7:05:00 PM

Delivery Method: SGS

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.7);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☐	☒	☐
2. Trip Blank listed on COC:	☐	☒	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25404: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C9112-MB	1C212189.D	1	12/18/25	JN	n/a	n/a	V1C9112

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-1, JE25404-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.5	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	108%
17060-07-0	1,2-Dichloroethane-D4	80-124%
2037-26-5	Toluene-D8	102%
460-00-4	4-Bromofluorobenzene	75-133%
		102%
		58-148%
		106%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-MB	L375969.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	90% 80-120%
17060-07-0	1,2-Dichloroethane-D4	92% 80-120%
2037-26-5	Toluene-D8	96% 80-120%
460-00-4	4-Bromofluorobenzene	95% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C9112-BS	1C212187.D	1	12/18/25	JN	n/a	n/a	V1C9112

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-1, JE25404-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	49.3	99	82-119
100-41-4	Ethylbenzene	50	49.3	99	83-115
98-82-8	Isopropylbenzene	50	48.8	98	81-122
1634-04-4	Methyl Tert Butyl Ether	50	53.9	108	75-126
91-20-3	Naphthalene	50	49.2	98	71-129
108-88-3	Toluene	50	49.2	98	82-118
95-63-6	1,2,4-Trimethylbenzene	50	45.7	91	80-119
108-67-8	1,3,5-Trimethylbenzene	50	44.7	89	79-120
1330-20-7	Xylene (total)	150	148	99	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	80-124%
17060-07-0	1,2-Dichloroethane-D4	102%	75-133%
2037-26-5	Toluene-D8	103%	79-125%
460-00-4	4-Bromofluorobenzene	95%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-BS	L375967.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.6	93	80-115
100-41-4	Ethylbenzene	50	45.6	91	78-116
98-82-8	Isopropylbenzene	50	47.2	94	78-121
1634-04-4	Methyl Tert Butyl Ether	50	45.8	92	76-123
91-20-3	Naphthalene	50	39.1	78	64-136
108-88-3	Toluene	50	46.4	93	79-116
95-63-6	1,2,4-Trimethylbenzene	50	46.0	92	78-120
108-67-8	1,3,5-Trimethylbenzene	50	45.3	91	77-120
1330-20-7	Xylene (total)	150	141	94	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	80-120%
17060-07-0	1,2-Dichloroethane-D4	85%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25356-1MS	1C212201.D	1	12/18/25	JN	n/a	n/a	V1C9112
JE25356-1	1C212194.D	1	12/18/25	JN	n/a	n/a	V1C9112

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-1, JE25404-2

CAS No.	Compound	JE25356-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
71-43-2	Benzene	ND		52.5	42.8	82	61-132
100-41-4	Ethylbenzene	ND		52.5	42.9	82	51-133
98-82-8	Isopropylbenzene	ND		52.5	41.2	78	44-142
1634-04-4	Methyl Tert Butyl Ether	ND		52.5	40.4	77	62-125
91-20-3	Naphthalene	ND		52.5	40.2	77	13-149
108-88-3	Toluene	0.69	J	52.5	40.8	76	56-135
95-63-6	1,2,4-Trimethylbenzene	ND		52.5	43.1	82	30-149
108-67-8	1,3,5-Trimethylbenzene	ND		52.5	40.8	78	36-145
1330-20-7	Xylene (total)	ND		158	122	77	50-138

CAS No.	Surrogate Recoveries	MS	JE25356-1	Limits
1868-53-7	Dibromofluoromethane	109%	107%	80-124%
17060-07-0	1,2-Dichloroethane-D4	101%	105%	75-133%
2037-26-5	Toluene-D8	96%	103%	79-125%
460-00-4	4-Bromofluorobenzene	102%	106%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25750-1MS	L375981.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1MSD	L375982.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1	L375975.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples: Method: SW846 8260D

JE25404-3

CAS No.	Compound	JE25750-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	48.8	98	50	48.1	96	1	49-137/12
100-41-4	Ethylbenzene	ND	50	48.1	96	50	46.2	92	4	37-144/12
98-82-8	Isopropylbenzene	ND	50	50.4	101	50	48.6	97	4	71-126/13
1634-04-4	Methyl Tert Butyl Ether	ND	50	48.1	96	50	46.0	92	4	66-124/12
91-20-3	Naphthalene	ND	50	40.1	80	50	39.4	79	2	49-146/18
108-88-3	Toluene	ND	50	48.5	97	50	46.2	92	5	46-139/12
95-63-6	1,2,4-Trimethylbenzene	ND	50	48.1	96	50	46.4	93	4	39-147/13
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.3	95	50	45.7	91	3	56-136/14
1330-20-7	Xylene (total)	ND	150	150	100	150	145	97	3	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25750-1	Limits
1868-53-7	Dibromofluoromethane	90%	91%	90%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	88%	91%	80-120%
2037-26-5	Toluene-D8	97%	96%	97%	80-120%
460-00-4	4-Bromofluorobenzene	94%	94%	94%	82-114%

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 1

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25356-2DUP	1C212202.D	1	12/18/25	JN	n/a	n/a	V1C9112
JE25356-2	1C212195.D	1	12/18/25	JN	n/a	n/a	V1C9112

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25404-1, JE25404-2

CAS No.	Compound	JE25356-2 ug/kg	DUP Q	Q	RPD	Limits
71-43-2	Benzene	ND	ND		nc	44
100-41-4	Ethylbenzene	ND	ND		nc	35
98-82-8	Isopropylbenzene	ND	ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND	ND		nc	21
91-20-3	Naphthalene	ND	ND		nc	20
108-88-3	Toluene	ND	ND		nc	37
95-63-6	1,2,4-Trimethylbenzene	ND	ND		nc	32
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	33
1330-20-7	Xylene (total)	ND	ND		nc	60

CAS No.	Surrogate Recoveries	DUP	JE25356-2	Limits
1868-53-7	Dibromofluoromethane	111%	106%	80-124%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	75-133%
2037-26-5	Toluene-D8	105%	104%	79-125%
460-00-4	4-Bromofluorobenzene	103%	105%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1C9032-BFB	Injection Date: 09/12/25
Lab File ID: 1C210109.D	Injection Time: 21:15
Instrument ID: GCMS1C	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	38776	22.6	Pass
75	30.0 - 60.0% of mass 95	80733	47.0	Pass
95	Base peak, 100% relative abundance	171947	100.0	Pass
96	5.0 - 9.0% of mass 95	12121	7.05	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	175211	101.9	Pass
175	5.0 - 9.0% of mass 174	13360	7.77 (7.63) ^a	Pass
176	95.0 - 101.0% of mass 174	173099	100.7 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	11544	6.71 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C9032-IC9032	1C210110.D	09/12/25	21:42	00:27	Initial cal 0.2
V1C9032-IC9032	1C210111.D	09/12/25	22:09	00:54	Initial cal 0.5
V1C9032-IC9032	1C210112.D	09/12/25	22:36	01:21	Initial cal 1
V1C9032-IC9032	1C210113.D	09/12/25	23:03	01:48	Initial cal 2
V1C9032-IC9032	1C210114.D	09/12/25	23:30	02:15	Initial cal 4
V1C9032-IC9032	1C210115.D	09/12/25	23:57	02:42	Initial cal 8
V1C9032-IC9032	1C210116.D	09/13/25	00:24	03:09	Initial cal 20
V1C9032-ICC9032	1C210117.D	09/13/25	00:51	03:36	Initial cal 50
V1C9032-IC9032	1C210118.D	09/13/25	01:18	04:03	Initial cal 100
V1C9032-IC9032	1C210119.D	09/13/25	01:45	04:30	Initial cal 200
V1C9032-ICV9032	1C210122.D	09/13/25	03:06	05:51	Initial cal verification 50
V1C9032-ICV9032	1C210123.D	09/13/25	03:33	06:18	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11495-BFB	Injection Date: 11/05/25
Lab File ID: L374371.D	Injection Time: 20:11
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21083	20.1	Pass
75	30.0 - 60.0% of mass 95	53880	51.3	Pass
95	Base peak, 100% relative abundance	104949	100.0	Pass
96	5.0 - 9.0% of mass 95	6080	5.79	Pass
173	Less than 2.0% of mass 174	411	0.39 (0.52) ^a	Pass
174	50.0 - 120.0% of mass 95	79352	75.6	Pass
175	5.0 - 9.0% of mass 174	5912	5.63 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	79085	75.4 (99.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4881	4.65 (6.17) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-IC11495	L374372.D	11/05/25	20:42	00:31	Initial cal 0.2
VL11495-IC11495	L374373.D	11/05/25	21:07	00:56	Initial cal 0.5
VL11495-IC11495	L374374.D	11/05/25	21:33	01:22	Initial cal 1
VL11495-IC11495	L374375.D	11/05/25	21:58	01:47	Initial cal 2
VL11495-IC11495	L374376.D	11/05/25	22:23	02:12	Initial cal 4
VL11495-IC11495	L374377.D	11/05/25	22:48	02:37	Initial cal 8
VL11495-IC11495	L374378.D	11/05/25	23:13	03:02	Initial cal 20
VL11495-ICC11495	L374379.D	11/05/25	23:38	03:27	Initial cal 50
VL11495-IC11495	L374380.D	11/06/25	00:04	03:53	Initial cal 100
VL11495-IC11495	L374381.D	11/06/25	00:29	04:18	Initial cal 200
VL11495-ICV11495	L374384.D	11/06/25	01:44	05:33	Initial cal verification 50
VL11495-ICV11495	L374385.D	11/06/25	02:09	05:58	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	VL11495-BFB2	Injection Date:	11/07/25
Lab File ID:	L374388.D	Injection Time:	15:07
Instrument ID:	GCMSL		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	22755	19.6	Pass
75	30.0 - 60.0% of mass 95	58917	50.8	Pass
95	Base peak, 100% relative abundance	115984	100.0	Pass
96	5.0 - 9.0% of mass 95	8142	7.02	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	86629	74.7	Pass
175	5.0 - 9.0% of mass 174	6565	5.66 (7.58) ^a	Pass
176	95.0 - 101.0% of mass 174	85800	74.0 (99.0) ^a	Pass
177	5.0 - 9.0% of mass 176	5694	4.91 (6.64) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-ICV11495	L374389.D	11/07/25	15:32	00:25	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11547-BFB
Lab File ID: L375935.D
Instrument ID: GCMSL
Injection Date: 12/29/25
Injection Time: 16:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	27978	15.5	Pass
75	30.0 - 60.0% of mass 95	82594	45.7	Pass
95	Base peak, 100% relative abundance	180651	100.0	Pass
96	5.0 - 9.0% of mass 95	11782	6.52	Pass
173	Less than 2.0% of mass 174	479	0.27 (0.31) ^a	Pass
174	50.0 - 120.0% of mass 95	152469	84.4	Pass
175	5.0 - 9.0% of mass 174	10846	6.00 (7.11) ^a	Pass
176	95.0 - 101.0% of mass 174	148501	82.2 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	9918	5.49 (6.68) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11547-CC11495	L375935.D	12/29/25	16:37	00:00	Continuing cal 50
VL11547-CC11495	L375936.D	12/29/25	17:08	00:31	Continuing cal 1
VL11547-BS	L375937.D	12/29/25	17:33	00:56	Blank Spike
VL11547-MB	L375939.D	12/29/25	18:23	01:46	Method Blank
ZZZZZZ	L375940.D	12/29/25	18:48	02:11	(unrelated sample)
JE25500-1	L375941.D	12/29/25	19:13	02:36	(used for QC only; not part of job JE25404)
ZZZZZZ	L375942.D	12/29/25	19:38	03:01	(unrelated sample)
ZZZZZZ	L375943.D	12/29/25	20:03	03:26	(unrelated sample)
ZZZZZZ	L375944.D	12/29/25	20:29	03:52	(unrelated sample)
JE25500-1MS	L375945.D	12/29/25	20:54	04:17	Matrix Spike
JE25500-1MSD	L375946.D	12/29/25	21:19	04:42	Matrix Spike Duplicate
ZZZZZZ	L375948.D	12/29/25	22:09	05:32	(unrelated sample)
ZZZZZZ	L375949.D	12/29/25	22:34	05:57	(unrelated sample)
ZZZZZZ	L375950.D	12/29/25	22:59	06:22	(unrelated sample)
ZZZZZZ	L375951.D	12/29/25	23:24	06:47	(unrelated sample)
ZZZZZZ	L375952.D	12/29/25	23:49	07:12	(unrelated sample)
ZZZZZZ	L375953.D	12/30/25	00:14	07:37	(unrelated sample)
ZZZZZZ	L375954.D	12/30/25	00:39	08:02	(unrelated sample)
ZZZZZZ	L375955.D	12/30/25	01:04	08:27	(unrelated sample)
ZZZZZZ	L375956.D	12/30/25	01:29	08:52	(unrelated sample)
ZZZZZZ	L375957.D	12/30/25	01:54	09:17	(unrelated sample)
ZZZZZZ	L375958.D	12/30/25	02:19	09:42	(unrelated sample)
ZZZZZZ	L375959.D	12/30/25	02:44	10:07	(unrelated sample)
ZZZZZZ	L375960.D	12/30/25	03:10	10:33	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: JE25404

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample: VL11547-BFB

Injection Date: 12/29/25

Lab File ID: L375935.D

Injection Time: 16:37

Instrument ID: GCMSL

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L375961.D	12/30/25	03:35	10:58	(unrelated sample)
ZZZZZZ	L375962.D	12/30/25	04:00	11:23	(unrelated sample)
VL11548-CC11495	L375965.D	12/30/25	09:09	16:32	Continuing cal 20
VL11548-CC11495	L375966.D	12/30/25	09:55	17:18	Continuing cal 1
VL11548-BS	L375967.D	12/30/25	10:20	17:43	Blank Spike
VL11548-MB	L375969.D	12/30/25	11:10	18:33	Method Blank
ZZZZZZ	L375970.D	12/30/25	11:35	18:58	(unrelated sample)
ZZZZZZ	L375971.D	12/30/25	12:00	19:23	(unrelated sample)
JE25404-3	L375972.D	12/30/25	12:25	19:48	FB_12172025
ZZZZZZ	L375973.D	12/30/25	12:50	20:13	(unrelated sample)
ZZZZZZ	L375974.D	12/30/25	13:15	20:38	(unrelated sample)
JE25750-1	L375975.D	12/30/25	13:40	21:03	(used for QC only; not part of job JE25404)
ZZZZZZ	L375976.D	12/30/25	14:05	21:28	(unrelated sample)
ZZZZZZ	L375977.D	12/30/25	14:30	21:53	(unrelated sample)
ZZZZZZ	L375978.D	12/30/25	14:55	22:18	(unrelated sample)
ZZZZZZ	L375979.D	12/30/25	15:21	22:44	(unrelated sample)
ZZZZZZ	L375980.D	12/30/25	15:46	23:09	(unrelated sample)
JE25750-1MS	L375981.D	12/30/25	16:11	23:34	Matrix Spike
JE25750-1MSD	L375982.D	12/30/25	16:36	23:59	Matrix Spike Duplicate
ZZZZZZ	L375984.D	12/30/25	17:26	24:49	(unrelated sample)

6.6.4

6

Surrogate Recovery Summary

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25404-3	L375972.D	87	87	99	93
JE25750-1MS	L375981.D	90	86	97	94
JE25750-1MSD	L375982.D	91	88	96	94
VL11548-BS	L375967.D	89	85	99	94
VL11548-MB	L375969.D	90	92	96	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Surrogate Recovery Summary

Job Number: JE25404
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25404-1	1C212199.D	110	103	99	98
JE25404-2	1C212200.D	109	101	102	101
JE25356-1MS	1C212201.D	109	101	96	102
JE25356-2DUP	1C212202.D	111	104	105	103
V1C9112-BS	1C212187.D	109	102	103	95
V1C9112-MB	1C212189.D	108	102	102	106

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25543

Sampling Date: 12/18/25

Report to:

Langan Engineering & Environmental
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Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

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Sample Summary

Langan Engineering & Environmental

Job No: JE25543

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25543-1	12/18/25	14:51	ZA	12/18/25	SO Soil	SB-MW-11_33

JE25543-2	12/18/25	15:00	ZA	12/18/25	AQ Field Blank Soil	FB-12182025

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25543

Site: MIPC Aston, PA

Report Date 1/2/2026 10:41:08 AM

On 12/18/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25543 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VL11548

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25750-1MS, JE25750-1MSD were used as the QC samples indicated.
- JE25543-2 for Naphthalene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: SO

Batch ID: V1C9114

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25512-1MS, JE25512-2DUP were used as the QC samples indicated.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN77570

- Sample(s) JE25543-1DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, January 2, 2026

Page 1 of 1

Summary of Hits

Job Number: JE25543
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/18/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25543-1 SB-MW-11_33

Benzene	0.92	0.52	0.47	ug/kg	SW846 8260D

JE25543-2 FB-12182025

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-MW-11_33	Date Sampled:	12/18/25
Lab Sample ID:	JE25543-1	Date Received:	12/18/25
Matrix:	SO - Soil	Percent Solids:	82.8
Method:	SW846 8260D SW846 5035		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C212270.D	1	12/22/25 20:46	PS	12/19/25 11:00	n/a	V1C9114
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.92	0.52	0.47	ug/kg	
108-88-3	Toluene	ND	1.0	0.55	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.47	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.49	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.6	ug/kg	
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.52	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		80-124%
17060-07-0	1,2-Dichloroethane-D4	103%		75-133%
2037-26-5	Toluene-D8	99%		79-125%
460-00-4	4-Bromofluorobenzene	109%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-12182025	Date Sampled:	12/18/25
Lab Sample ID:	JE25543-2	Date Received:	12/18/25
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L375970.D	1	12/30/25 11:35	BK	n/a	n/a	VL11548
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200
www.sgs.com/ehsusa

SC25543

Page 1 of 1

Client / Reporting Information		Project Information		Analysis Requested										Matrix Codes
Company Name: Langan		Project Name: MRPC												
Street Address: 1818 Market St, Suite 3300		Street: 920 Cherry Tree Rd												
City: Philadelphia PA		City: Edison PA												
Project Contact: Courtney Swidzinski		Project #: 22040201												
Phone #: 215-945-8944		Client Purchase Order #:												
Sampler(s) Name(s): Zamek Anstanski		Project Manager: Courtney Swidzinski												
Phone #: 412-982-2518		Attention:												
Turn Around Time (Business Days):		Deliverable:												
Approved By (SGM) / Date:		Comments / Special Instructions:												
10 Business Days 5 Business Days 3 Business Days 2 Business Days 1 Business Day Other		Analyze Sample for: BTEX, Cumene, Naphthalene, MTBE, 1,2,4-TMB, and 1,3,5-TMB *Short hold time*												
All data available via SGS Engage		http://www.sgs.com/en/terms-and-conditions												
Sample Custody must be documented below each time samples change possession, including courier delivery														
Relinquished By: 1 Courtney Swidzinski		Received By: 1 Marcel Luper												
Date / Time: 12/18/15 15:15		Date / Time: 12/18/15 17:45												
Relinquished By: 3 Courtney Swidzinski		Received By: 3 Marcel Luper												
Date / Time: 12/18/15 7:10		Date / Time: 12/18/15 7:10												
Relinquished By: 5 Courtney Swidzinski		Received By: 5 Marcel Luper												
Date / Time: 12/18/15 7:10		Date / Time: 12/18/15 7:10												
Custody Seal #		Therm ID: 2.0												
☐ Intact ☐ Not Intact ☐ Absent		See Sample Receipt Summary												

JE25543: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: je25543

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/18/2025 5:45:00 PM

Delivery Method: SGS

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☐	☒	☐
2. Trip Blank listed on COC:	☐	☒	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25543: Chain of Custody

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MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C9114-MB	1C212254.D	1	12/22/25	PS	n/a	n/a	V1C9114

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.5	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	108%
17060-07-0	1,2-Dichloroethane-D4	80-124%
2037-26-5	Toluene-D8	100%
460-00-4	4-Bromofluorobenzene	75-133%
		101%
		58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-MB	L375969.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	90% 80-120%
17060-07-0	1,2-Dichloroethane-D4	92% 80-120%
2037-26-5	Toluene-D8	96% 80-120%
460-00-4	4-Bromofluorobenzene	95% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C9114-BS	1C212252.D	1	12/22/25	PS	n/a	n/a	V1C9114

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	55.7	111	82-119
100-41-4	Ethylbenzene	50	52.1	104	83-115
98-82-8	Isopropylbenzene	50	48.8	98	81-122
1634-04-4	Methyl Tert Butyl Ether	50	54.6	109	75-126
91-20-3	Naphthalene	50	49.3	99	71-129
108-88-3	Toluene	50	48.8	98	82-118
95-63-6	1,2,4-Trimethylbenzene	50	45.9	92	80-119
108-67-8	1,3,5-Trimethylbenzene	50	50.3	101	79-120
1330-20-7	Xylene (total)	150	153	102	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	80-124%
17060-07-0	1,2-Dichloroethane-D4	105%	75-133%
2037-26-5	Toluene-D8	104%	79-125%
460-00-4	4-Bromofluorobenzene	97%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-BS	L375967.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.6	93	80-115
100-41-4	Ethylbenzene	50	45.6	91	78-116
98-82-8	Isopropylbenzene	50	47.2	94	78-121
1634-04-4	Methyl Tert Butyl Ether	50	45.8	92	76-123
91-20-3	Naphthalene	50	39.1	78	64-136
108-88-3	Toluene	50	46.4	93	79-116
95-63-6	1,2,4-Trimethylbenzene	50	46.0	92	78-120
108-67-8	1,3,5-Trimethylbenzene	50	45.3	91	77-120
1330-20-7	Xylene (total)	150	141	94	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	80-120%
17060-07-0	1,2-Dichloroethane-D4	85%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25512-1MS	1C212262.D	1	12/22/25	PS	n/a	n/a	V1C9114
JE25512-1	1C212255.D	1	12/22/25	PS	n/a	n/a	V1C9114

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-1

CAS No.	Compound	JE25512-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
71-43-2	Benzene	3.3		54.4	52.1	90	61-132
100-41-4	Ethylbenzene	2.7		54.4	53.1	93	51-133
98-82-8	Isopropylbenzene	ND		54.4	45.9	84	44-142
1634-04-4	Methyl Tert Butyl Ether	ND		54.4	50.5	93	62-125
91-20-3	Naphthalene	ND		54.4	45.4	83	13-149
108-88-3	Toluene	12.5		54.4	52.3	73	56-135
95-63-6	1,2,4-Trimethylbenzene	3.0		54.4	45.5	78	30-149
108-67-8	1,3,5-Trimethylbenzene	0.80	J	54.4	48.3	87	36-145
1330-20-7	Xylene (total)	12.6		163	146	82	50-138

CAS No.	Surrogate Recoveries	MS	JE25512-1	Limits
1868-53-7	Dibromofluoromethane	107%	112%	80-124%
17060-07-0	1,2-Dichloroethane-D4	96%	105%	75-133%
2037-26-5	Toluene-D8	106%	99%	79-125%
460-00-4	4-Bromofluorobenzene	97%	97%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25750-1MS	L375981.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1MSD	L375982.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1	L375975.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples: Method: SW846 8260D

JE25543-2

CAS No.	Compound	JE25750-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	48.8	98	50	48.1	96	1	49-137/12
100-41-4	Ethylbenzene	ND	50	48.1	96	50	46.2	92	4	37-144/12
98-82-8	Isopropylbenzene	ND	50	50.4	101	50	48.6	97	4	71-126/13
1634-04-4	Methyl Tert Butyl Ether	ND	50	48.1	96	50	46.0	92	4	66-124/12
91-20-3	Naphthalene	ND	50	40.1	80	50	39.4	79	2	49-146/18
108-88-3	Toluene	ND	50	48.5	97	50	46.2	92	5	46-139/12
95-63-6	1,2,4-Trimethylbenzene	ND	50	48.1	96	50	46.4	93	4	39-147/13
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.3	95	50	45.7	91	3	56-136/14
1330-20-7	Xylene (total)	ND	150	150	100	150	145	97	3	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25750-1	Limits
1868-53-7	Dibromofluoromethane	90%	91%	90%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	88%	91%	80-120%
2037-26-5	Toluene-D8	97%	96%	97%	80-120%
460-00-4	4-Bromofluorobenzene	94%	94%	94%	82-114%

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 1

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25512-2DUP	1C212263.D	1	12/22/25	PS	n/a	n/a	V1C9114
JE25512-2	1C212256.D	1	12/22/25	PS	n/a	n/a	V1C9114

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25543-1

CAS No.	Compound	JE25512-2 ug/kg	DUP Q	ug/kg	Q	RPD	Limits
71-43-2	Benzene	2.2		2.0		10	44
100-41-4	Ethylbenzene	1.7		1.6		6	35
98-82-8	Isopropylbenzene	ND		ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	21
91-20-3	Naphthalene	ND		ND		nc	20
108-88-3	Toluene	8.5		7.9		7	37
95-63-6	1,2,4-Trimethylbenzene	1.9	J	1.9	J	0	32
108-67-8	1,3,5-Trimethylbenzene	0.58	J	0.60	J	3	33
1330-20-7	Xylene (total)	8.2		7.7		6	60

CAS No.	Surrogate Recoveries	DUP	JE25512-2	Limits
1868-53-7	Dibromofluoromethane	112%	108%	80-124%
17060-07-0	1,2-Dichloroethane-D4	104%	100%	75-133%
2037-26-5	Toluene-D8	102%	103%	79-125%
460-00-4	4-Bromofluorobenzene	102%	98%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1C9032-BFB	Injection Date: 09/12/25
Lab File ID: 1C210109.D	Injection Time: 21:15
Instrument ID: GCMS1C	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	38776	22.6	Pass
75	30.0 - 60.0% of mass 95	80733	47.0	Pass
95	Base peak, 100% relative abundance	171947	100.0	Pass
96	5.0 - 9.0% of mass 95	12121	7.05	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	175211	101.9	Pass
175	5.0 - 9.0% of mass 174	13360	7.77 (7.63) ^a	Pass
176	95.0 - 101.0% of mass 174	173099	100.7 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	11544	6.71 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C9032-IC9032	1C210110.D	09/12/25	21:42	00:27	Initial cal 0.2
V1C9032-IC9032	1C210111.D	09/12/25	22:09	00:54	Initial cal 0.5
V1C9032-IC9032	1C210112.D	09/12/25	22:36	01:21	Initial cal 1
V1C9032-IC9032	1C210113.D	09/12/25	23:03	01:48	Initial cal 2
V1C9032-IC9032	1C210114.D	09/12/25	23:30	02:15	Initial cal 4
V1C9032-IC9032	1C210115.D	09/12/25	23:57	02:42	Initial cal 8
V1C9032-IC9032	1C210116.D	09/13/25	00:24	03:09	Initial cal 20
V1C9032-ICC9032	1C210117.D	09/13/25	00:51	03:36	Initial cal 50
V1C9032-IC9032	1C210118.D	09/13/25	01:18	04:03	Initial cal 100
V1C9032-IC9032	1C210119.D	09/13/25	01:45	04:30	Initial cal 200
V1C9032-ICV9032	1C210122.D	09/13/25	03:06	05:51	Initial cal verification 50
V1C9032-ICV9032	1C210123.D	09/13/25	03:33	06:18	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11495-BFB	Injection Date: 11/05/25
Lab File ID: L374371.D	Injection Time: 20:11
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21083	20.1	Pass
75	30.0 - 60.0% of mass 95	53880	51.3	Pass
95	Base peak, 100% relative abundance	104949	100.0	Pass
96	5.0 - 9.0% of mass 95	6080	5.79	Pass
173	Less than 2.0% of mass 174	411	0.39 (0.52) ^a	Pass
174	50.0 - 120.0% of mass 95	79352	75.6	Pass
175	5.0 - 9.0% of mass 174	5912	5.63 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	79085	75.4 (99.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4881	4.65 (6.17) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-IC11495	L374372.D	11/05/25	20:42	00:31	Initial cal 0.2
VL11495-IC11495	L374373.D	11/05/25	21:07	00:56	Initial cal 0.5
VL11495-IC11495	L374374.D	11/05/25	21:33	01:22	Initial cal 1
VL11495-IC11495	L374375.D	11/05/25	21:58	01:47	Initial cal 2
VL11495-IC11495	L374376.D	11/05/25	22:23	02:12	Initial cal 4
VL11495-IC11495	L374377.D	11/05/25	22:48	02:37	Initial cal 8
VL11495-IC11495	L374378.D	11/05/25	23:13	03:02	Initial cal 20
VL11495-ICC11495	L374379.D	11/05/25	23:38	03:27	Initial cal 50
VL11495-IC11495	L374380.D	11/06/25	00:04	03:53	Initial cal 100
VL11495-IC11495	L374381.D	11/06/25	00:29	04:18	Initial cal 200
VL11495-ICV11495	L374384.D	11/06/25	01:44	05:33	Initial cal verification 50
VL11495-ICV11495	L374385.D	11/06/25	02:09	05:58	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	VL11495-BFB2	Injection Date:	11/07/25
Lab File ID:	L374388.D	Injection Time:	15:07
Instrument ID:	GCMSL		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	22755	19.6	Pass
75	30.0 - 60.0% of mass 95	58917	50.8	Pass
95	Base peak, 100% relative abundance	115984	100.0	Pass
96	5.0 - 9.0% of mass 95	8142	7.02	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	86629	74.7	Pass
175	5.0 - 9.0% of mass 174	6565	5.66 (7.58) ^a	Pass
176	95.0 - 101.0% of mass 174	85800	74.0 (99.0) ^a	Pass
177	5.0 - 9.0% of mass 176	5694	4.91 (6.64) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-ICV11495	L374389.D	11/07/25	15:32	00:25	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11547-BFB
Lab File ID: L375935.D
Instrument ID: GCMSL
Injection Date: 12/29/25
Injection Time: 16:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	27978	15.5	Pass
75	30.0 - 60.0% of mass 95	82594	45.7	Pass
95	Base peak, 100% relative abundance	180651	100.0	Pass
96	5.0 - 9.0% of mass 95	11782	6.52	Pass
173	Less than 2.0% of mass 174	479	0.27 (0.31) ^a	Pass
174	50.0 - 120.0% of mass 95	152469	84.4	Pass
175	5.0 - 9.0% of mass 174	10846	6.00 (7.11) ^a	Pass
176	95.0 - 101.0% of mass 174	148501	82.2 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	9918	5.49 (6.68) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11547-CC11495	L375935.D	12/29/25	16:37	00:00	Continuing cal 50
VL11547-CC11495	L375936.D	12/29/25	17:08	00:31	Continuing cal 1
VL11547-BS	L375937.D	12/29/25	17:33	00:56	Blank Spike
VL11547-MB	L375939.D	12/29/25	18:23	01:46	Method Blank
ZZZZZZ	L375940.D	12/29/25	18:48	02:11	(unrelated sample)
JE25500-1	L375941.D	12/29/25	19:13	02:36	(used for QC only; not part of job JE25543)
ZZZZZZ	L375942.D	12/29/25	19:38	03:01	(unrelated sample)
ZZZZZZ	L375943.D	12/29/25	20:03	03:26	(unrelated sample)
ZZZZZZ	L375944.D	12/29/25	20:29	03:52	(unrelated sample)
JE25500-1MS	L375945.D	12/29/25	20:54	04:17	Matrix Spike
JE25500-1MSD	L375946.D	12/29/25	21:19	04:42	Matrix Spike Duplicate
ZZZZZZ	L375948.D	12/29/25	22:09	05:32	(unrelated sample)
ZZZZZZ	L375949.D	12/29/25	22:34	05:57	(unrelated sample)
ZZZZZZ	L375950.D	12/29/25	22:59	06:22	(unrelated sample)
ZZZZZZ	L375951.D	12/29/25	23:24	06:47	(unrelated sample)
ZZZZZZ	L375952.D	12/29/25	23:49	07:12	(unrelated sample)
ZZZZZZ	L375953.D	12/30/25	00:14	07:37	(unrelated sample)
ZZZZZZ	L375954.D	12/30/25	00:39	08:02	(unrelated sample)
ZZZZZZ	L375955.D	12/30/25	01:04	08:27	(unrelated sample)
ZZZZZZ	L375956.D	12/30/25	01:29	08:52	(unrelated sample)
ZZZZZZ	L375957.D	12/30/25	01:54	09:17	(unrelated sample)
ZZZZZZ	L375958.D	12/30/25	02:19	09:42	(unrelated sample)
ZZZZZZ	L375959.D	12/30/25	02:44	10:07	(unrelated sample)
ZZZZZZ	L375960.D	12/30/25	03:10	10:33	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: JE25543

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample: VL11547-BFB

Injection Date: 12/29/25

Lab File ID: L375935.D

Injection Time: 16:37

Instrument ID: GCMSL

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L375961.D	12/30/25	03:35	10:58	(unrelated sample)
ZZZZZZ	L375962.D	12/30/25	04:00	11:23	(unrelated sample)
VL11548-CC11495	L375965.D	12/30/25	09:09	16:32	Continuing cal 20
VL11548-CC11495	L375966.D	12/30/25	09:55	17:18	Continuing cal 1
VL11548-BS	L375967.D	12/30/25	10:20	17:43	Blank Spike
VL11548-MB	L375969.D	12/30/25	11:10	18:33	Method Blank
JE25543-2	L375970.D	12/30/25	11:35	18:58	FB-12182025
ZZZZZZ	L375971.D	12/30/25	12:00	19:23	(unrelated sample)
ZZZZZZ	L375972.D	12/30/25	12:25	19:48	(unrelated sample)
ZZZZZZ	L375973.D	12/30/25	12:50	20:13	(unrelated sample)
ZZZZZZ	L375974.D	12/30/25	13:15	20:38	(unrelated sample)
JE25750-1	L375975.D	12/30/25	13:40	21:03	(used for QC only; not part of job JE25543)
ZZZZZZ	L375976.D	12/30/25	14:05	21:28	(unrelated sample)
ZZZZZZ	L375977.D	12/30/25	14:30	21:53	(unrelated sample)
ZZZZZZ	L375978.D	12/30/25	14:55	22:18	(unrelated sample)
ZZZZZZ	L375979.D	12/30/25	15:21	22:44	(unrelated sample)
ZZZZZZ	L375980.D	12/30/25	15:46	23:09	(unrelated sample)
JE25750-1MS	L375981.D	12/30/25	16:11	23:34	Matrix Spike
JE25750-1MSD	L375982.D	12/30/25	16:36	23:59	Matrix Spike Duplicate
ZZZZZZ	L375984.D	12/30/25	17:26	24:49	(unrelated sample)

6.6.4

6

Surrogate Recovery Summary

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25543-2	L375970.D	90	89	98	94
JE25750-1MS	L375981.D	90	86	97	94
JE25750-1MSD	L375982.D	91	88	96	94
VL11548-BS	L375967.D	89	85	99	94
VL11548-MB	L375969.D	90	92	96	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Surrogate Recovery Summary

Job Number: JE25543
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25543-1	1C212270.D	114	103	99	109
JE25512-1MS	1C212262.D	107	96	106	97
JE25512-2DUP	1C212263.D	112	104	102	102
V1C9114-BS	1C212252.D	107	105	104	97
V1C9114-MB	1C212254.D	108	100	101	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25641

Sampling Date: 12/19/25

Report to:

Langan Engineering & Environmental
1818 Market Street Suite 3300
Philadelphia, PA 19103
csavidge@Langan.com; rjohnston@Langan.com;
jsmith@Langan.com; jloeffel@langan.com;
ATTN: Cortney Savidge

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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START SURVEY

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Sample Summary

Langan Engineering & Environmental

Job No: JE25641

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25641-1	12/19/25	13:28	ZA	12/20/25	SO	Soil	SB-MW-12_5.5

JE25641-2	12/19/25	14:15	ZA	12/20/25	AQ	Field Blank Soil	FB-12192025

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25641

Site: MIPC Aston, PA

Report Date 1/2/2026 10:45:04 AM

On 12/20/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25641 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VL11548

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25750-1MS, JE25750-1MSD were used as the QC samples indicated.
- JE25641-2 for Naphthalene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: SO

Batch ID: V3C8563

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25521-1MS, JE25521-2DUP were used as the QC samples indicated.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN77579

- Sample(s) JE25595-1DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, January 2, 2026

Page 1 of 1

Summary of Hits

Job Number: JE25641
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/19/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25641-1 SB-MW-12_5.5

No hits reported in this sample.

JE25641-2 FB-12192025

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-MW-12_5.5	Date Sampled:	12/19/25
Lab Sample ID:	JE25641-1	Date Received:	12/20/25
Matrix:	SO - Soil	Percent Solids:	79.0
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C197925.D	1	12/23/25 19:36	PS	n/a	n/a	V3C8563
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.53	0.48	ug/kg	
108-88-3	Toluene	ND	1.1	0.55	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.49	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.6	ug/kg	
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.53	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-124%
17060-07-0	1,2-Dichloroethane-D4	114%		75-133%
2037-26-5	Toluene-D8	100%		79-125%
460-00-4	4-Bromofluorobenzene	116%		58-148%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	FB-12192025	Date Sampled:	12/19/25
Lab Sample ID:	JE25641-2	Date Received:	12/20/25
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L375971.D	1	12/30/25 12:00	BK	n/a	n/a	VL11548
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Client / Reporting Information

Company Name: Langan

Street Address: 1818 Market St, Suite 3300

City: Philadelphia, PA

State: PA

Zip: 19104

Project Contact: Courtney Sanidge

Phone #: 215-845-8944

Sampler(s) Name(s): Zoe Buisson

Project Information

Project Name: MRP

Street: 420 Cherry Tree Rd

City: Aston

State: PA

Project #: 220240201

Client Purchase Order #:

Street Address:

City:

State:

Zip:

Attention:

Analysis Requested

Matrix Codes:

- DW - Drinking Water
- GW - Ground Water
- WW - Water
- SW - Surface Water
- SL - Sludge
- SED - Sediment
- OI - Oil
- LIO - Other Liquid
- AIR - Air
- SOL - Other Solid
- WP - Wipe
- FB - Field Blank
- EB - Equipment Blank
- RB - Rinse Blank
- TB - Trip Blank

PH Check (Lab Use Only)

Initial Assessment 28-JA

Label Verification

Turn Around Time (Business Days)

☐ 10 Business Days

☐ 5 Business Days

☐ 3 Business Days

☐ 2 Business Days

☐ 1 Business Day

☐ Other

Deliverable

☐ Commercial "A" (Level 1)

☐ Commercial "B" (Level 2)

☐ NJ Reduced (Level 3)

☐ Full Tier 1 (Level 4)

☐ Commercial "C"

☐ NJ DKQP

☐ NJGW Criteria 2025 "new"

☐ NYASP Category A

☐ NYASP Category B

☐ MA MCP Criteria

☐ CT RCP Criteria

☐ State Forms

☐ EDD Format

Comments / Special Instructions

Analyte Sample for BTEX
Cumene Naphthalene, MTBE
1,4-TMB and 1,3,5-TMB
* Short Hold Time *

Sampled on 12/19/25

Relinquished By: 1 Zoe Buisson

Date / Time: 12/19/25 1645

Received By: 1 Yan Chen

Relinquished By: 2 Yan Chen

Date / Time: 12/20/25

Received By: 2 Yan Chen

Relinquished By: 3

Date / Time:

Received By: 3

Relinquished By: 4

Date / Time:

Received By: 4

Relinquished By: 5

Date / Time:

Received By: 5

Custody Seal #

☐ Intact

☐ Not Intact

☐ Absent

Therm ID:

On Ice:

Cooler Temp. °C 13.2

See Sample Receipt Summary

http://www.sgs.com/en/terms-and-conditions

SGS Sample Receipt Summary

Job Number: JE25641

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/20/2025 12:32:00 PM

Delivery Method: DROP OFF

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.4);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☒	☐	☐
2. Trip Blank listed on COC:	☒	☐	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25641: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C8563-MB	3C197911.D	1	12/23/25	PS	n/a	n/a	V3C8563

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.5	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.50	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.43	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-124%
17060-07-0	1,2-Dichloroethane-D4	105%	75-133%
2037-26-5	Toluene-D8	101%	79-125%
460-00-4	4-Bromofluorobenzene	116%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-MB	L375969.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	80-120%
17060-07-0	1,2-Dichloroethane-D4	92%	80-120%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	95%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C8563-BS	3C197909.D	1	12/23/25	PS	n/a	n/a	V3C8563

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.4	93	82-119
100-41-4	Ethylbenzene	50	46.5	93	83-115
98-82-8	Isopropylbenzene	50	47.7	95	81-122
1634-04-4	Methyl Tert Butyl Ether	50	50.4	101	75-126
91-20-3	Naphthalene	50	49.6	99	71-129
108-88-3	Toluene	50	46.1	92	82-118
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	80-119
108-67-8	1,3,5-Trimethylbenzene	50	49.4	99	79-120
1330-20-7	Xylene (total)	150	141	94	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-124%
17060-07-0	1,2-Dichloroethane-D4	109%	75-133%
2037-26-5	Toluene-D8	100%	79-125%
460-00-4	4-Bromofluorobenzene	113%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11548-BS	L375967.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.6	93	80-115
100-41-4	Ethylbenzene	50	45.6	91	78-116
98-82-8	Isopropylbenzene	50	47.2	94	78-121
1634-04-4	Methyl Tert Butyl Ether	50	45.8	92	76-123
91-20-3	Naphthalene	50	39.1	78	64-136
108-88-3	Toluene	50	46.4	93	79-116
95-63-6	1,2,4-Trimethylbenzene	50	46.0	92	78-120
108-67-8	1,3,5-Trimethylbenzene	50	45.3	91	77-120
1330-20-7	Xylene (total)	150	141	94	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	80-120%
17060-07-0	1,2-Dichloroethane-D4	85%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25521-1MS	3C197922.D	1	12/23/25	PS	n/a	n/a	V3C8563
JE25521-1	3C197912.D	1	12/23/25	PS	n/a	n/a	V3C8563

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-1

CAS No.	Compound	JE25521-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
71-43-2	Benzene	ND		54.5	46.6	86	61-132
100-41-4	Ethylbenzene	ND		54.5	46.4	85	51-133
98-82-8	Isopropylbenzene	ND		54.5	47.0	86	44-142
1634-04-4	Methyl Tert Butyl Ether	ND		54.5	47.6	87	62-125
91-20-3	Naphthalene	ND		54.5	44.0	81	13-149
108-88-3	Toluene	ND		54.5	46.4	85	56-135
95-63-6	1,2,4-Trimethylbenzene	ND		54.5	48.8	90	30-149
108-67-8	1,3,5-Trimethylbenzene	ND		54.5	48.9	90	36-145
1330-20-7	Xylene (total)	ND		164	139	85	50-138

CAS No.	Surrogate Recoveries	MS	JE25521-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	80-124%
17060-07-0	1,2-Dichloroethane-D4	108%	114%	75-133%
2037-26-5	Toluene-D8	101%	99%	79-125%
460-00-4	4-Bromofluorobenzene	115%	117%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25750-1MS	L375981.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1MSD	L375982.D	1	12/30/25	BK	n/a	n/a	VL11548
JE25750-1	L375975.D	1	12/30/25	BK	n/a	n/a	VL11548

The QC reported here applies to the following samples: Method: SW846 8260D

JE25641-2

CAS No.	Compound	JE25750-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	48.8	98	50	48.1	96	1	49-137/12
100-41-4	Ethylbenzene	ND	50	48.1	96	50	46.2	92	4	37-144/12
98-82-8	Isopropylbenzene	ND	50	50.4	101	50	48.6	97	4	71-126/13
1634-04-4	Methyl Tert Butyl Ether	ND	50	48.1	96	50	46.0	92	4	66-124/12
91-20-3	Naphthalene	ND	50	40.1	80	50	39.4	79	2	49-146/18
108-88-3	Toluene	ND	50	48.5	97	50	46.2	92	5	46-139/12
95-63-6	1,2,4-Trimethylbenzene	ND	50	48.1	96	50	46.4	93	4	39-147/13
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.3	95	50	45.7	91	3	56-136/14
1330-20-7	Xylene (total)	ND	150	150	100	150	145	97	3	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25750-1	Limits
1868-53-7	Dibromofluoromethane	90%	91%	90%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	88%	91%	80-120%
2037-26-5	Toluene-D8	97%	96%	97%	80-120%
460-00-4	4-Bromofluorobenzene	94%	94%	94%	82-114%

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 1

Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25521-2DUP	3C197924.D	1	12/23/25	PS	n/a	n/a	V3C8563
JE25521-2	3C197913.D	1	12/23/25	PS	n/a	n/a	V3C8563

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25641-1

CAS No.	Compound	JE25521-2 ug/kg	DUP Q	Q	RPD	Limits
71-43-2	Benzene	ND	ND		nc	44
100-41-4	Ethylbenzene	ND	ND		nc	35
98-82-8	Isopropylbenzene	ND	ND		nc	28
1634-04-4	Methyl Tert Butyl Ether	ND	ND		nc	21
91-20-3	Naphthalene	ND	ND		nc	20
108-88-3	Toluene	ND	ND		nc	37
95-63-6	1,2,4-Trimethylbenzene	ND	ND		nc	32
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	33
1330-20-7	Xylene (total)	ND	ND		nc	60

CAS No.	Surrogate Recoveries	DUP	JE25521-2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	80-124%
17060-07-0	1,2-Dichloroethane-D4	116%	116%	75-133%
2037-26-5	Toluene-D8	99%	100%	79-125%
460-00-4	4-Bromofluorobenzene	116%	117%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V3C8554-BFB
Lab File ID: 3C197620.D
Instrument ID: GCMS3C
Injection Date: 12/09/25
Injection Time: 17:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	75888	20.3	Pass
75	30.0 - 60.0% of mass 95	181269	48.5	Pass
95	Base peak, 100% relative abundance	373888	100.0	Pass
96	5.0 - 9.0% of mass 95	24501	6.55	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	363051	97.1	Pass
175	5.0 - 9.0% of mass 174	26853	7.18 (7.40) ^a	Pass
176	95.0 - 101.0% of mass 174	350101	93.6 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	23603	6.31 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C8554-IC8554	3C197621.D	12/09/25	18:08	00:30	Initial cal 0.2
V3C8554-IC8554	3C197622.D	12/09/25	18:34	00:56	Initial cal 0.5
V3C8554-IC8554	3C197623.D	12/09/25	18:59	01:21	Initial cal 1
V3C8554-IC8554	3C197624.D	12/09/25	19:25	01:47	Initial cal 2
V3C8554-IC8554	3C197625.D	12/09/25	19:51	02:13	Initial cal 4
V3C8554-IC8554	3C197626.D	12/09/25	20:17	02:39	Initial cal 8
V3C8554-IC8554	3C197627.D	12/09/25	20:42	03:04	Initial cal 20
V3C8554-ICC8554	3C197628.D	12/09/25	21:08	03:30	Initial cal 50
V3C8554-IC8554	3C197629.D	12/09/25	21:34	03:56	Initial cal 100
V3C8554-IC8554	3C197630.D	12/09/25	22:00	04:22	Initial cal 200
V3C8554-ICV8554	3C197633.D	12/09/25	23:17	05:39	Initial cal verification 50
V3C8554-ICV8554	3C197634.D	12/09/25	23:43	06:05	Initial cal verification 50

Instrument Performance Check (BFB)

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Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V3C8554-BFB2
Lab File ID: 3C197637.D
Instrument ID: GCMS3C
Injection Date: 12/10/25
Injection Time: 15:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	67605	20.4	Pass
75	30.0 - 60.0% of mass 95	159253	48.1	Pass
95	Base peak, 100% relative abundance	331093	100.0	Pass
96	5.0 - 9.0% of mass 95	22680	6.85	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	318336	96.1	Pass
175	5.0 - 9.0% of mass 174	23485	7.09 (7.38) ^a	Pass
176	95.0 - 101.0% of mass 174	308651	93.2 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	20691	6.25 (6.70) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C8554-ICV8554	3C197638.D	12/10/25	15:51	00:26	Initial cal verification 50
V3C8555-CC8554	3C197641.D	12/11/25	10:55	19:30	Continuing cal 50
V3C8555-BS	3C197642.D	12/11/25	11:45	20:20	Blank Spike
V3C8555-MB	3C197644.D	12/11/25	12:44	21:19	Method Blank
JE24609-5	3C197645.D	12/11/25	13:10	21:45	(used for QC only; not part of job JE25641)
JE24609-6	3C197646.D	12/11/25	13:36	22:11	(used for QC only; not part of job JE25641)
ZZZZZZ	3C197647.D	12/11/25	14:02	22:37	(unrelated sample)
ZZZZZZ	3C197648.D	12/11/25	14:27	23:02	(unrelated sample)
ZZZZZZ	3C197649.D	12/11/25	14:53	23:28	(unrelated sample)
ZZZZZZ	3C197650.D	12/11/25	15:19	23:54	(unrelated sample)
ZZZZZZ	3C197651.D	12/11/25	15:45	24:20	(unrelated sample)
ZZZZZZ	3C197652.D	12/11/25	16:11	24:46	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11495-BFB	Injection Date: 11/05/25
Lab File ID: L374371.D	Injection Time: 20:11
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21083	20.1	Pass
75	30.0 - 60.0% of mass 95	53880	51.3	Pass
95	Base peak, 100% relative abundance	104949	100.0	Pass
96	5.0 - 9.0% of mass 95	6080	5.79	Pass
173	Less than 2.0% of mass 174	411	0.39 (0.52) ^a	Pass
174	50.0 - 120.0% of mass 95	79352	75.6	Pass
175	5.0 - 9.0% of mass 174	5912	5.63 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	79085	75.4 (99.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4881	4.65 (6.17) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-IC11495	L374372.D	11/05/25	20:42	00:31	Initial cal 0.2
VL11495-IC11495	L374373.D	11/05/25	21:07	00:56	Initial cal 0.5
VL11495-IC11495	L374374.D	11/05/25	21:33	01:22	Initial cal 1
VL11495-IC11495	L374375.D	11/05/25	21:58	01:47	Initial cal 2
VL11495-IC11495	L374376.D	11/05/25	22:23	02:12	Initial cal 4
VL11495-IC11495	L374377.D	11/05/25	22:48	02:37	Initial cal 8
VL11495-IC11495	L374378.D	11/05/25	23:13	03:02	Initial cal 20
VL11495-ICC11495	L374379.D	11/05/25	23:38	03:27	Initial cal 50
VL11495-IC11495	L374380.D	11/06/25	00:04	03:53	Initial cal 100
VL11495-IC11495	L374381.D	11/06/25	00:29	04:18	Initial cal 200
VL11495-ICV11495	L374384.D	11/06/25	01:44	05:33	Initial cal verification 50
VL11495-ICV11495	L374385.D	11/06/25	02:09	05:58	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	VL11495-BFB2	Injection Date:	11/07/25
Lab File ID:	L374388.D	Injection Time:	15:07
Instrument ID:	GCMSL		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	22755	19.6	Pass
75	30.0 - 60.0% of mass 95	58917	50.8	Pass
95	Base peak, 100% relative abundance	115984	100.0	Pass
96	5.0 - 9.0% of mass 95	8142	7.02	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	86629	74.7	Pass
175	5.0 - 9.0% of mass 174	6565	5.66 (7.58) ^a	Pass
176	95.0 - 101.0% of mass 174	85800	74.0 (99.0) ^a	Pass
177	5.0 - 9.0% of mass 176	5694	4.91 (6.64) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11495-ICV11495	L374389.D	11/07/25	15:32	00:25	Initial cal verification 50

6.6.4
6

Instrument Performance Check (BFB)

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Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VL11547-BFB
Lab File ID: L375935.D
Instrument ID: GCMSL
Injection Date: 12/29/25
Injection Time: 16:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	27978	15.5	Pass
75	30.0 - 60.0% of mass 95	82594	45.7	Pass
95	Base peak, 100% relative abundance	180651	100.0	Pass
96	5.0 - 9.0% of mass 95	11782	6.52	Pass
173	Less than 2.0% of mass 174	479	0.27 (0.31) ^a	Pass
174	50.0 - 120.0% of mass 95	152469	84.4	Pass
175	5.0 - 9.0% of mass 174	10846	6.00 (7.11) ^a	Pass
176	95.0 - 101.0% of mass 174	148501	82.2 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	9918	5.49 (6.68) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL11547-CC11495	L375935.D	12/29/25	16:37	00:00	Continuing cal 50
VL11547-CC11495	L375936.D	12/29/25	17:08	00:31	Continuing cal 1
VL11547-BS	L375937.D	12/29/25	17:33	00:56	Blank Spike
VL11547-MB	L375939.D	12/29/25	18:23	01:46	Method Blank
ZZZZZZ	L375940.D	12/29/25	18:48	02:11	(unrelated sample)
JE25500-1	L375941.D	12/29/25	19:13	02:36	(used for QC only; not part of job JE25641)
ZZZZZZ	L375942.D	12/29/25	19:38	03:01	(unrelated sample)
ZZZZZZ	L375943.D	12/29/25	20:03	03:26	(unrelated sample)
ZZZZZZ	L375944.D	12/29/25	20:29	03:52	(unrelated sample)
JE25500-1MS	L375945.D	12/29/25	20:54	04:17	Matrix Spike
JE25500-1MSD	L375946.D	12/29/25	21:19	04:42	Matrix Spike Duplicate
ZZZZZZ	L375948.D	12/29/25	22:09	05:32	(unrelated sample)
ZZZZZZ	L375949.D	12/29/25	22:34	05:57	(unrelated sample)
ZZZZZZ	L375950.D	12/29/25	22:59	06:22	(unrelated sample)
ZZZZZZ	L375951.D	12/29/25	23:24	06:47	(unrelated sample)
ZZZZZZ	L375952.D	12/29/25	23:49	07:12	(unrelated sample)
ZZZZZZ	L375953.D	12/30/25	00:14	07:37	(unrelated sample)
ZZZZZZ	L375954.D	12/30/25	00:39	08:02	(unrelated sample)
ZZZZZZ	L375955.D	12/30/25	01:04	08:27	(unrelated sample)
ZZZZZZ	L375956.D	12/30/25	01:29	08:52	(unrelated sample)
ZZZZZZ	L375957.D	12/30/25	01:54	09:17	(unrelated sample)
ZZZZZZ	L375958.D	12/30/25	02:19	09:42	(unrelated sample)
ZZZZZZ	L375959.D	12/30/25	02:44	10:07	(unrelated sample)
ZZZZZZ	L375960.D	12/30/25	03:10	10:33	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JE25641

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample: VL11547-BFB

Injection Date: 12/29/25

Lab File ID: L375935.D

Injection Time: 16:37

Instrument ID: GCMSL

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L375961.D	12/30/25	03:35	10:58	(unrelated sample)
ZZZZZZ	L375962.D	12/30/25	04:00	11:23	(unrelated sample)
VL11548-CC11495	L375965.D	12/30/25	09:09	16:32	Continuing cal 20
VL11548-CC11495	L375966.D	12/30/25	09:55	17:18	Continuing cal 1
VL11548-BS	L375967.D	12/30/25	10:20	17:43	Blank Spike
VL11548-MB	L375969.D	12/30/25	11:10	18:33	Method Blank
ZZZZZZ	L375970.D	12/30/25	11:35	18:58	(unrelated sample)
JE25641-2	L375971.D	12/30/25	12:00	19:23	FB-12192025
ZZZZZZ	L375972.D	12/30/25	12:25	19:48	(unrelated sample)
ZZZZZZ	L375973.D	12/30/25	12:50	20:13	(unrelated sample)
ZZZZZZ	L375974.D	12/30/25	13:15	20:38	(unrelated sample)
JE25750-1	L375975.D	12/30/25	13:40	21:03	(used for QC only; not part of job JE25641)
ZZZZZZ	L375976.D	12/30/25	14:05	21:28	(unrelated sample)
ZZZZZZ	L375977.D	12/30/25	14:30	21:53	(unrelated sample)
ZZZZZZ	L375978.D	12/30/25	14:55	22:18	(unrelated sample)
ZZZZZZ	L375979.D	12/30/25	15:21	22:44	(unrelated sample)
ZZZZZZ	L375980.D	12/30/25	15:46	23:09	(unrelated sample)
JE25750-1MS	L375981.D	12/30/25	16:11	23:34	Matrix Spike
JE25750-1MSD	L375982.D	12/30/25	16:36	23:59	Matrix Spike Duplicate
ZZZZZZ	L375984.D	12/30/25	17:26	24:49	(unrelated sample)

6.6.5

6

Surrogate Recovery Summary

Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25641-2	L375971.D	90	89	98	95
JE25750-1MS	L375981.D	90	86	97	94
JE25750-1MSD	L375982.D	91	88	96	94
VL11548-BS	L375967.D	89	85	99	94
VL11548-MB	L375969.D	90	92	96	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Surrogate Recovery Summary

Job Number: JE25641
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25641-1	3C197925.D	102	114	100	116
JE25521-1MS	3C197922.D	99	108	101	115
JE25521-2DUP	3C197924.D	103	116	99	116
V3C8563-BS	3C197909.D	98	109	100	113
V3C8563-MB	3C197911.D	98	105	101	116

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25793

Sampling Date: 12/20/25

Report to:

Langan Engineering & Environmental
1818 Market Street Suite 3300
Philadelphia, PA 19103
csavidge@Langan.com; rjohnston@Langan.com;
jsmith@Langan.com; jloeffel@langan.com;
ATTN: Cortney Savidge

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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START SURVEY

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Sample Summary

Langan Engineering & Environmental

Job No: JE25793

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25793-1	12/20/25	14:24	ZA	12/22/25	SO	Soil	SB-MW-13_12

JE25793-2	12/20/25	14:30	ZA	12/22/25	AQ	Field Blank Soil	FB-12202025

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25793

Site: MIPC Aston, PA

Report Date 1/2/2026 1:02:46 PM

On 12/22/2025, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25793 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V1T666

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25852-10MS, JE25852-10MSD were used as the QC samples indicated.
- JE25793-2 for Naphthalene: Associated CCV outside of control limits high, sample was ND.

Matrix: SO

Batch ID: VGA787

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25630-2MS, JE25630-2MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: VGB785

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25363-6MS, JE25363-6MSD were used as the QC samples indicated.
- The matrix spike (MS) recovery(s) of Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JE25793-1: Dilution required due to high concentration of target compound.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN77638

- Sample(s) JE25794-1DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, January 2, 2026

Page 1 of 1

Summary of Hits

Job Number: JE25793
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/20/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25793-1 SB-MW-13_12

Benzene ^a	20100	99	90	ug/kg	SW846 8260D
Toluene	57600	2000	1000	ug/kg	SW846 8260D
Ethylbenzene ^a	7640	200	90	ug/kg	SW846 8260D
Xylene (total) ^a	45500	200	91	ug/kg	SW846 8260D
Naphthalene ^a	620 J	990	490	ug/kg	SW846 8260D
Isopropylbenzene ^a	600	400	280	ug/kg	SW846 8260D
1,2,4-Trimethylbenzene ^a	11600	400	99	ug/kg	SW846 8260D
1,3,5-Trimethylbenzene ^a	3340	400	85	ug/kg	SW846 8260D

JE25793-2 FB-12202025

No hits reported in this sample.

(a) Dilution required due to high concentration of target compound.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-MW-13_12	Date Sampled:	12/20/25
Lab Sample ID:	JE25793-1	Date Received:	12/22/25
Matrix:	SO - Soil	Percent Solids:	62.2
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	GB29669.D	1	12/26/25 19:54	JN	n/a	n/a	VGB785
Run #2	GA29752.D	1	12/30/25 02:35	JN	n/a	n/a	VGA787

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	10.0 ml	100 ul
Run #2	4.8 g	10.0 ml	10.0 ul

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20100	99	90	ug/kg	
108-88-3	Toluene	57600 ^b	2000	1000	ug/kg	
100-41-4	Ethylbenzene	7640	200	90	ug/kg	
1330-20-7	Xylene (total)	45500	200	91	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	200	93	ug/kg	
91-20-3	Naphthalene	620	990	490	ug/kg	J
98-82-8	Isopropylbenzene	600	400	280	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	11600	400	99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	3340	400	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	92%	80-124%
17060-07-0	1,2-Dichloroethane-D4	105%	96%	75-133%
2037-26-5	Toluene-D8	112%	109%	79-125%
460-00-4	4-Bromofluorobenzene	100%	103%	58-148%

(a) Dilution required due to high concentration of target compound.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-12202025	Date Sampled:	12/20/25
Lab Sample ID:	JE25793-2	Date Received:	12/22/25
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T27995.D	1	12/31/25 00:06	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS Sample Receipt Summary

Job Number: JE25793

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/22/2025 8:03:00 PM

Delivery Method: IMP

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☒	☐	☐
2. Trip Blank listed on COC:	☒	☐	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25793: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VGB785-MB	GB29643.D	1	12/26/25	JN	n/a	n/a	VGB785

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	25	23	ug/kg	
100-41-4	Ethylbenzene	ND	50	23	ug/kg	
98-82-8	Isopropylbenzene	ND	100	71	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	23	ug/kg	
91-20-3	Naphthalene	ND	250	130	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	100	25	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	100	22	ug/kg	
1330-20-7	Xylene (total)	ND	50	23	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103%
17060-07-0	1,2-Dichloroethane-D4	115%
2037-26-5	Toluene-D8	107%
460-00-4	4-Bromofluorobenzene	99%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VGA787-MB	GA29714.D	1	12/29/25	JN	n/a	n/a	VGA787

The QC reported here applies to the following samples: Method: SW846 8260D

JE25793-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	50	26	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 80-124%
17060-07-0	1,2-Dichloroethane-D4	105% 75-133%
2037-26-5	Toluene-D8	106% 79-125%
460-00-4	4-Bromofluorobenzene	100% 58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T666-MB	1T27994.D	1	12/30/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	94% 80-120%
17060-07-0	1,2-Dichloroethane-D4	90% 80-120%
2037-26-5	Toluene-D8	98% 80-120%
460-00-4	4-Bromofluorobenzene	95% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VGB785-BS	GB29641.D	1	12/26/25	JN	n/a	n/a	VGB785

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	2500	2690	108	82-119
100-41-4	Ethylbenzene	2500	2710	108	83-115
98-82-8	Isopropylbenzene	2500	2780	111	81-122
1634-04-4	Methyl Tert Butyl Ether	2500	2840	114	75-126
91-20-3	Naphthalene	2500	2490	100	71-129
95-63-6	1,2,4-Trimethylbenzene	2500	2680	107	80-119
108-67-8	1,3,5-Trimethylbenzene	2500	2680	107	79-120
1330-20-7	Xylene (total)	7500	8050	107	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	80-124%
17060-07-0	1,2-Dichloroethane-D4	116%	75-133%
2037-26-5	Toluene-D8	112%	79-125%
460-00-4	4-Bromofluorobenzene	98%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VGA787-BS	GA29710.D	1	12/29/25	JN	n/a	n/a	VGA787

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-88-3	Toluene	2500	2570	103	82-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-124%
17060-07-0	1,2-Dichloroethane-D4	108%	75-133%
2037-26-5	Toluene-D8	110%	79-125%
460-00-4	4-Bromofluorobenzene	105%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T666-BS	1T27992.D	1	12/30/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.3	99	80-115
100-41-4	Ethylbenzene	50	50.0	100	78-116
98-82-8	Isopropylbenzene	50	56.3	113	78-121
1634-04-4	Methyl Tert Butyl Ether	50	50.1	100	76-123
91-20-3	Naphthalene	50	64.5	129	64-136
108-88-3	Toluene	50	47.6	95	79-116
95-63-6	1,2,4-Trimethylbenzene	50	57.6	115	78-120
108-67-8	1,3,5-Trimethylbenzene	50	57.2	114	77-120
1330-20-7	Xylene (total)	150	160	107	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	80-120%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	100%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25363-6MS	GB29661.D	1	12/26/25	JN	n/a	n/a	VGB785
JE25363-6MSD	GB29663.D	1	12/26/25	JN	n/a	n/a	VGB785
JE25363-6 ^a	GB29649.D	1	12/26/25	JN	n/a	n/a	VGB785
JE25363-6 ^b	GB29657.D	1	12/26/25	JN	n/a	n/a	VGB785

The QC reported here applies to the following samples: Method: SW846 8260D

JE25793-1

CAS No.	Compound	JE25363-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	14400000		1970000	15400000	51* ^c	1970000	17400000	152* ^c	12	61-132/13
100-41-4	Ethylbenzene	121000 ^d		1970000	2400000	115	1970000	2280000	109	5	51-133/19
98-82-8	Isopropylbenzene	296000 ^d		1970000	2310000	102	1970000	2480000	111	7	44-142/21
1634-04-4	Methyl Tert Butyl Ether	39000 ^{U d}		1970000	2320000	118	1970000	2270000	115	2	62-125/12
91-20-3	Naphthalene	2590000 ^d		1970000	4390000	91	1970000	4510000	97	3	13-149/34
95-63-6	1,2,4-Trimethylbenzene	204000 ^d		1970000	2420000	112	1970000	2360000	109	3	30-149/19
108-67-8	1,3,5-Trimethylbenzene	151000 ^d		1970000	2280000	108	1970000	2270000	107	0	36-145/19
1330-20-7	Xylene (total)	1390000 ^d		5920000	7960000	111	5920000	7930000	110	0	50-138/17

CAS No.	Surrogate Recoveries	MS	MSD	JE25363-6	JE25363-6	Limits
1868-53-7	Dibromofluoromethane	109%	102%	104%	102%	80-124%
17060-07-0	1,2-Dichloroethane-D4	109%	109%	112%	106%	75-133%
2037-26-5	Toluene-D8	115%	111%	110%	127%* ^e	79-125%
460-00-4	4-Bromofluorobenzene	98%	98%	98%	101%	58-148%

- (a) Sample prepped outside the holding time.
(b) Dilution required due to high concentration of target compound. Sample prepped outside the holding time.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) Result is from Run #2.
(e) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25630-2MS	GA29732.D	1	12/29/25	JN	n/a	n/a	VGA787
JE25630-2MSD	GA29734.D	1	12/29/25	JN	n/a	n/a	VGA787
JE25630-2	GA29724.D	1	12/29/25	JN	n/a	n/a	VGA787

The QC reported here applies to the following samples: Method: SW846 8260D

JE25793-1

CAS No.	Compound	JE25630-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	ND		14900	15600	105	14900	15200	102	3	56-135/15

CAS No.	Surrogate Recoveries	MS	MSD	JE25630-2	Limits
1868-53-7	Dibromofluoromethane	94%	93%	93%	80-124%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	104%	75-133%
2037-26-5	Toluene-D8	110%	108%	107%	79-125%
460-00-4	4-Bromofluorobenzene	102%	102%	99%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JE25793

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25852-10MS	1T27999.D	4	12/31/25	ED	n/a	n/a	V1T666
JE25852-10MSD	1T28000.D	4	12/31/25	ED	n/a	n/a	V1T666
JE25852-10 ^a	1T27998.D	4	12/31/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25793-2

CAS No.	Compound	JE25852-10 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	200	214	107	200	209	105	2	49-137/12
100-41-4	Ethylbenzene	131	200	332	101	200	329	99	1	37-144/12
98-82-8	Isopropylbenzene	42.0	200	277	118	200	277	118	0	71-126/13
1634-04-4	Methyl Tert Butyl Ether	44.3	200	254	105	200	258	107	2	66-124/12
91-20-3	Naphthalene	ND	200	278	139	200	287	144	3	49-146/18
108-88-3	Toluene	ND	200	200	100	200	198	99	1	46-139/12
95-63-6	1,2,4-Trimethylbenzene	645	200	829	92	200	834	95	1	39-147/13
108-67-8	1,3,5-Trimethylbenzene	107	200	334	114	200	342	118	2	56-136/14
1330-20-7	Xylene (total)	17.2	600	686	111	600	677	110	1	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25852-10	Limits
1868-53-7	Dibromofluoromethane	93%	92%	94%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	91%	93%	80-120%
2037-26-5	Toluene-D8	98%	97%	100%	80-120%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	82-114%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1T659-BFB
Lab File ID: 1T27696.D
Instrument ID: GCMS1T
Injection Date: 12/23/25
Injection Time: 21:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	66995	19.7	Pass
75	30.0 - 80.0% of mass 95	174181	51.2	Pass
95	Base peak, 100% relative abundance	340288	100.0	Pass
96	5.0 - 9.0% of mass 95	22728	6.68	Pass
173	Less than 2.0% of mass 174	3300	0.97 (1.15) ^a	Pass
174	50.0 - 120.0% of mass 95	286464	84.2	Pass
175	5.0 - 9.0% of mass 174	21741	6.39 (7.59) ^a	Pass
176	95.0 - 101.0% of mass 174	275648	81.0 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	17487	5.14 (6.34) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1T659-IC659	1T27698.D	12/23/25	22:22	00:50	Initial cal 0.2
V1T659-IC659	1T27700.D	12/23/25	22:49	01:17	Initial cal 0.5
V1T659-IC659	1T27702.D	12/23/25	23:17	01:45	Initial cal 1
V1T659-IC659	1T27704.D	12/23/25	23:44	02:12	Initial cal 2
V1T659-IC659	1T27706.D	12/24/25	00:11	02:39	Initial cal 4
V1T659-IC659	1T27708.D	12/24/25	00:39	03:07	Initial cal 8
V1T659-IC659	1T27710.D	12/24/25	01:06	03:34	Initial cal 20
V1T659-ICC659	1T27712.D	12/24/25	01:33	04:01	Initial cal 50
V1T659-IC659	1T27714.D	12/24/25	02:01	04:29	Initial cal 100
V1T659-IC659	1T27716.D	12/24/25	02:28	04:56	Initial cal 200
V1T659-ICV659	1T27722.D	12/24/25	03:50	06:18	Initial cal verification 50
V1T659-ICV659	1T27724.D	12/24/25	04:17	06:45	Initial cal verification 50
V1T660-CC659	1T27729.D	12/24/25	09:04	11:32	Continuing cal 20
V1T660-BS	1T27730.D	12/24/25	09:33	12:01	Blank Spike
V1T660-MB	1T27732.D	12/24/25	10:25	12:53	Method Blank
ZZZZZZ	1T27733.D	12/24/25	10:51	13:19	(unrelated sample)
ZZZZZZ	1T27734.D	12/24/25	11:16	13:44	(unrelated sample)
ZZZZZZ	1T27735.D	12/24/25	11:42	14:10	(unrelated sample)
JE25432-1	1T27736.D	12/24/25	12:08	14:36	(used for QC only; not part of job JE25793)
ZZZZZZ	1T27738.D	12/24/25	13:00	15:28	(unrelated sample)
ZZZZZZ	1T27739.D	12/24/25	13:26	15:54	(unrelated sample)
ZZZZZZ	1T27740.D	12/24/25	13:51	16:19	(unrelated sample)
JE25432-1MS	1T27741.D	12/24/25	14:17	16:45	Matrix Spike
JE25432-1MSD	1T27742.D	12/24/25	14:43	17:11	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	V1T659-BFB	Injection Date:	12/23/25
Lab File ID:	1T27696.D	Injection Time:	21:32
Instrument ID:	GCMS1T		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1T27743.D	12/24/25	15:09	17:37	(unrelated sample)
ZZZZZZ	1T27744.D	12/24/25	15:34	18:02	(unrelated sample)
JE25432-1	1T27745.D	12/24/25	16:00	18:28	(used for QC only; not part of job JE25793)
ZZZZZZ	1T27746.D	12/24/25	16:26	18:54	(unrelated sample)
ZZZZZZ	1T27747.D	12/24/25	16:52	19:20	(unrelated sample)
ZZZZZZ	1T27748.D	12/24/25	17:18	19:46	(unrelated sample)
ZZZZZZ	1T27749.D	12/24/25	17:43	20:11	(unrelated sample)
ZZZZZZ	1T27750.D	12/24/25	18:09	20:37	(unrelated sample)
ZZZZZZ	1T27751.D	12/24/25	18:35	21:03	(unrelated sample)
ZZZZZZ	1T27752.D	12/24/25	19:00	21:28	(unrelated sample)
ZZZZZZ	1T27753.D	12/24/25	19:26	21:54	(unrelated sample)
ZZZZZZ	1T27754.D	12/24/25	19:52	22:20	(unrelated sample)
ZZZZZZ	1T27755.D	12/24/25	20:18	22:46	(unrelated sample)
ZZZZZZ	1T27756.D	12/24/25	20:43	23:11	(unrelated sample)
V1T661-CC659	1T27759.D	12/24/25	22:01	24:29	Continuing cal 50

6.4.1
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Instrument Performance Check (BFB)

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Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VGA703-BFB	Injection Date: 09/27/25
Lab File ID: GA25814.D	Injection Time: 19:01
Instrument ID: GCMSGA	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	38800	25.9	Pass
75	30.0 - 60.0% of mass 95	71941	48.0	Pass
95	Base peak, 100% relative abundance	149931	100.0	Pass
96	5.0 - 9.0% of mass 95	9439	6.30	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	124581	83.1	Pass
175	5.0 - 9.0% of mass 174	11045	7.37 (8.87) ^a	Pass
176	95.0 - 101.0% of mass 174	124725	83.2 (100.1) ^a	Pass
177	5.0 - 9.0% of mass 176	7366	4.91 (5.91) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VGA703-IC703	GA25819.D	09/27/25	20:53	01:52	Initial cal 0.2
VGA703-IC703	GA25821.D	09/27/25	21:22	02:21	Initial cal 0.5
VGA703-IC703	GA25823.D	09/27/25	21:50	02:49	Initial cal 1
VGA703-IC703	GA25825.D	09/27/25	22:19	03:18	Initial cal 2
VGA703-IC703	GA25827.D	09/27/25	22:48	03:47	Initial cal 4
VGA703-IC703	GA25829.D	09/27/25	23:17	04:16	Initial cal 8
VGA703-IC703	GA25831.D	09/27/25	23:45	04:44	Initial cal 20
VGA703-ICC703	GA25833.D	09/28/25	00:14	05:13	Initial cal 50
VGA703-IC703	GA25835.D	09/28/25	00:43	05:42	Initial cal 100
VGA703-IC703	GA25837.D	09/28/25	01:12	06:11	Initial cal 200
VGA703-ICV703	GA25843.D	09/28/25	02:38	07:37	Initial cal verification 50
VGA703-ICV703	GA25845.D	09/28/25	03:07	08:06	Initial cal verification 50

Instrument Performance Check (BFB)

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Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VGB703-BFB	Injection Date: 09/27/25
Lab File ID: GB25818.D	Injection Time: 20:10
Instrument ID: GCMSGB	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	38221	23.6	Pass
75	30.0 - 60.0% of mass 95	78371	48.5	Pass
95	Base peak, 100% relative abundance	161685	100.0	Pass
96	5.0 - 9.0% of mass 95	10957	6.78	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	137592	85.1	Pass
175	5.0 - 9.0% of mass 174	11942	7.39 (8.68) ^a	Pass
176	95.0 - 101.0% of mass 174	130864	80.9 (95.1) ^a	Pass
177	5.0 - 9.0% of mass 176	8830	5.46 (6.75) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VGB703-IC703	GB25820.D	09/27/25	21:07	00:57	Initial cal 0.2
VGB703-IC703	GB25822.D	09/27/25	21:36	01:26	Initial cal 0.5
VGB703-IC703	GB25824.D	09/27/25	22:05	01:55	Initial cal 1
VGB703-IC703	GB25826.D	09/27/25	22:34	02:24	Initial cal 2
VGB703-IC703	GB25828.D	09/27/25	23:02	02:52	Initial cal 4
VGB703-IC703	GB25830.D	09/27/25	23:31	03:21	Initial cal 8
VGB703-IC703	GB25832.D	09/28/25	00:00	03:50	Initial cal 20
VGB703-ICC703	GB25834.D	09/28/25	00:29	04:19	Initial cal 50
VGB703-IC703	GB25836.D	09/28/25	00:57	04:47	Initial cal 100
VGB703-IC703	GB25838.D	09/28/25	01:26	05:16	Initial cal 200
VGB703-ICV703	GB25844.D	09/28/25	02:52	06:42	Initial cal verification 50
VGB703-ICV703	GB25846.D	09/28/25	03:21	07:11	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: VGB785-BFB
Lab File ID: GB29637.D
Instrument ID: GCMSGB
Injection Date: 12/26/25
Injection Time: 11:46

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	31560	22.4	Pass
75	30.0 - 60.0% of mass 95	70469	49.9	Pass
95	Base peak, 100% relative abundance	141120	100.0	Pass
96	5.0 - 9.0% of mass 95	9819	6.96	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	108285	76.7	Pass
175	5.0 - 9.0% of mass 174	6865	4.86 (6.34) ^a	Pass
176	95.0 - 101.0% of mass 174	106261	75.3 (98.1) ^a	Pass
177	5.0 - 9.0% of mass 176	7171	5.08 (6.75) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VGB785-CC703	GB29637.D	12/26/25	11:46	00:00	Continuing cal 20
VGB785-CC703	GB29639.D	12/26/25	12:34	00:48	Continuing cal 2
VGB785-BS	GB29641.D	12/26/25	13:02	01:16	Blank Spike
VGB785-MB	GB29643.D	12/26/25	13:42	01:56	Method Blank
ZZZZZZ	GB29643A.D	12/26/25	13:42	01:56	(unrelated sample)
JE25363-6	GB29649.D	12/26/25	15:07	03:21	(used for QC only; not part of job JE25793)
ZZZZZZ	GB29651.D	12/26/25	15:36	03:50	(unrelated sample)
ZZZZZZ	GB29653.D	12/26/25	16:05	04:19	(unrelated sample)
ZZZZZZ	GB29655.D	12/26/25	16:33	04:47	(unrelated sample)
JE25363-6	GB29657.D	12/26/25	17:02	05:16	(used for QC only; not part of job JE25793)
ZZZZZZ	GB29659.D	12/26/25	17:31	05:45	(unrelated sample)
JE25363-6MS	GB29661.D	12/26/25	17:59	06:13	Matrix Spike
JE25363-6MSD	GB29663.D	12/26/25	18:28	06:42	Matrix Spike Duplicate
ZZZZZZ	GB29667.D	12/26/25	19:26	07:40	(unrelated sample)
JE25793-1	GB29669.D	12/26/25	19:54	08:08	SB-MW-13_12
ZZZZZZ	GB29671.D	12/26/25	20:23	08:37	(unrelated sample)
ZZZZZZ	GB29675.D	12/26/25	21:20	09:34	(unrelated sample)
ZZZZZZ	GB29677.D	12/26/25	21:49	10:03	(unrelated sample)
ZZZZZZ	GB29679.D	12/26/25	22:18	10:32	(unrelated sample)
ZZZZZZ	GB29681.D	12/26/25	22:47	11:01	(unrelated sample)

Surrogate Recovery Summary

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25793-2	1T27995.D	97	93	97	96
JE25852-10MS	1T27999.D	93	98	98	98
JE25852-10MSD	1T28000.D	92	91	97	99
V1T666-BS	1T27992.D	91	89	97	100
V1T666-MB	1T27994.D	94	90	98	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Surrogate Recovery Summary

Job Number: JE25793
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25793-1	GB29669.D	94	105	112	100
JE25793-1	GA29752.D	92	96	109	103
JE25363-6MS	GB29661.D	109	109	115	98
JE25363-6MSD	GB29663.D	102	109	111	98
JE25630-2MS	GA29732.D	94	100	110	102
JE25630-2MSD	GA29734.D	93	98	108	102
VGA787-BS	GA29710.D	101	108	110	105
VGA787-MB	GA29714.D	97	105	106	100
VGB785-BS	GB29641.D	104	116	112	98
VGB785-MB	GB29643.D	103	115	107	99

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

ATTACHMENT 3

Groundwater Analytical Reports: December 2025

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25791

Sampling Date: 12/22/25

Report to:

Langan Engineering & Environmental
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jsmith@Langan.com; jloeffel@langan.com;
ATTN: Cortney Savidge

Total number of pages in report: **21**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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Sample Summary

Langan Engineering & Environmental

Job No: JE25791

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25791-1	12/22/25	14:10	NC	12/22/25	AQ	Ground Water	MW-5_122225
JE25791-2	12/22/25	16:50	NC	12/22/25	AQ	Ground Water	MW-4_122225
JE25791-3	12/22/25	00:00	NC	12/22/25	AQ	Ground Water	DUP-1
JE25791-4	12/22/25	17:15	NC	12/22/25	AQ	Field Blank Water	FB-1_122225
JE25791-5	12/22/25	17:15	NC	12/22/25	AQ	Trip Blank Water	TB-1_122225

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25791

Site: MIPC Aston, PA

Report Date 1/2/2026 10:57:27 AM

On 12/22/2025, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25791 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V1T666

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25852-10MS, JE25852-10MSD were used as the QC samples indicated.
- JE25791-3: Dilution required due to high concentration of target compound.
- JE25791-2: Dilution required due to high concentration of target compound.
- JE25791-3 for Naphthalene: Associated CCV outside of control limits high, sample was ND.
- JE25791-2 for Naphthalene: Associated CCV outside of control limits high, sample was ND.
- JE25791-1 for Naphthalene: Associated CCV outside of control limits high, sample was ND.
- JE25791-5 for Naphthalene: Associated CCV outside of control limits high, sample was ND.
- JE25791-4 for Naphthalene: Associated CCV outside of control limits high, sample was ND.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Page 1 of 1

Job Number: JE25791
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/22/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE25791-1 **MW-5_122225**

No hits reported in this sample.

JE25791-2 **MW-4_122225**

Benzene ^a	3450	13	11	ug/l	SW846 8260D
Toluene ^a	457	25	12	ug/l	SW846 8260D
Ethylbenzene ^a	177	25	15	ug/l	SW846 8260D
Xylene (total) ^a	1680	25	15	ug/l	SW846 8260D
1,2,4-Trimethylbenzene ^a	114	50	25	ug/l	SW846 8260D
1,3,5-Trimethylbenzene ^a	30.5 J	50	25	ug/l	SW846 8260D

JE25791-3 **DUP-1**

Benzene ^a	3470	13	11	ug/l	SW846 8260D
Toluene ^a	443	25	12	ug/l	SW846 8260D
Ethylbenzene ^a	171	25	15	ug/l	SW846 8260D
Xylene (total) ^a	1670	25	15	ug/l	SW846 8260D
1,2,4-Trimethylbenzene ^a	116	50	25	ug/l	SW846 8260D
1,3,5-Trimethylbenzene ^a	32.9 J	50	25	ug/l	SW846 8260D

JE25791-4 **FB-1_122225**

No hits reported in this sample.

JE25791-5 **TB-1_122225**

No hits reported in this sample.

(a) Dilution required due to high concentration of target compound.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-5_122225	Date Sampled:	12/22/25
Lab Sample ID:	JE25791-1	Date Received:	12/22/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T28004.D	1	12/31/25 03:57	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4_122225	Date Sampled:	12/22/25
Lab Sample ID:	JE25791-2	Date Received:	12/22/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1T28005.D	25	12/31/25 04:23	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3450	13	11	ug/l	
108-88-3	Toluene	457	25	12	ug/l	
100-41-4	Ethylbenzene	177	25	15	ug/l	
1330-20-7	Xylene (total)	1680	25	15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	13	ug/l	
91-20-3	Naphthalene ^b	ND	130	110	ug/l	
98-82-8	Isopropylbenzene	ND	25	16	ug/l	
95-63-6	1,2,4-Trimethylbenzene	114	50	25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	30.5	50	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1	Date Sampled:	12/22/25
Lab Sample ID:	JE25791-3	Date Received:	12/22/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1T28006.D	25	12/31/25 04:49	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3470	13	11	ug/l	
108-88-3	Toluene	443	25	12	ug/l	
100-41-4	Ethylbenzene	171	25	15	ug/l	
1330-20-7	Xylene (total)	1670	25	15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	13	ug/l	
91-20-3	Naphthalene ^b	ND	130	110	ug/l	
98-82-8	Isopropylbenzene	ND	25	16	ug/l	
95-63-6	1,2,4-Trimethylbenzene	116	50	25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	32.9	50	25	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1_122225	Date Sampled:	12/22/25
Lab Sample ID:	JE25791-4	Date Received:	12/22/25
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T28002.D	1	12/31/25 03:06	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1_122225	
Lab Sample ID:	JE25791-5	Date Sampled: 12/22/25
Matrix:	AQ - Trip Blank Water	Date Received: 12/22/25
Method:	SW846 8260D	Percent Solids: n/a
Project:	MIPC Aston, PA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T28003.D	1	12/31/25 03:32	ED	n/a	n/a	V1T666
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Unleaded Gasoline with TMB List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene ^a	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200
www.sgs.com/ehsusa

JE 25791

Page 1 of 1

SGS

SGS Environmental America Inc. - Dayton

2235 Route 130, Dayton, NJ 08810

TEL 732-329-0200

www.sgs.com/ehsusa

FED-EX Tracking #

SGS Quote #

Bottle Order Conting #

SGS Job #

Client / Reporting Information

Company Name: Langston

Street Address: 1818 Market St, Suite 3300

City: Philadelphia State: PA Zip:

Project Contact: Cortney Sledge E-mail: csledge@langston.com

Phone #: 215-545-5944

Sampler(s) Name(s): Nathan Carpenter Phone #: 412-555-4113

Project Information

Project Name: MIRC

Street: 920 Cherry Tree Rd

City: Aston State: PA

Project #: 210240201

Client Purchase Order #:

Project Manager: Cortney Sledge

Attention:

Billing Information (if different from Report to)

Company Name:

Street Address:

City: State: Zip:

Analysis Requested

PA Unleaded Case Sheet List

1,2,4-TRAD

1,3,5-TRAD

Matrix Codes

DW - Drinking Water

GW - Ground Water

WW - Water

SW - Surface Water

SO - Soil

SL - Sludge

SED - Sediment

OI - Oil

LIQ - Other Liquid

AIR - Air

SOL - Other Solid

WP - Waste

FB - Field Blank

EB - Equipment Blank

RB - Rinse Blank

TB - Trip Blank

Collection

SGS Sample #	Field ID / Point of Collection	MECH/VDI Val #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Characterized (Y/N)	Misc	# of bottles	HCl	NaOH	HNO ₃	H ₂ SO ₄	None	DI Water	MESH	ENDCORE	pH Check (Lab Use Only)	LAB USE ONLY
1	MW-5-122225		12/22/25	1400	NC	G	-	GW	3	X								X	X
2	MW-4-122225		12/22/25	1650	NC	G	-	GW	3	X								X	X
3	DUP-1				NC	G	-	GW	3									X	X
4	FB-1-122225			1715	NC	G	-	FB	2									X	X
5	TB-1-122225		12/22/25					TB	2									X	X

Turn Around Time (Business Days)

☐ 10 Business Days
☐ 5 Business Days
☐ 3 Business Days*
☒ 2 Business Days*
☐ 1 Business Day*
☐ Other

Approved By (SGS PM) / Date:

☐ Commercial "A" (Level 1)
☐ Commercial "B" (Level 2)
☐ NJ Reduced (Level 3)
☐ Full Tier 1 (Level 4)
☐ Commercial "C"
☐ NJ BKOP
☐ NJGW Criteria 2025 "new"

Deliverable

☐ NYASP Category A
☐ NYASP Category B
☐ MA MCP Criteria
☐ CT RCP Criteria
☐ State Forms
☐ EDD Format

Comments / Special Instructions

All data available via SGS Enge

* Approval needed for 1-3 BD TAT

Commercial "A" = Results only; Commercial "B" = Results + QC Summary

Commercial "C" = Results + QC Summary + Partial Raw data

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By: <u>1</u>	Date / Time: <u>12/22/25 2024</u>	Received By: <u>2</u>	Date / Time: <u>12/22/25 2024</u>
Relinquished By: <u>3</u>	Date / Time: <u></u>	Received By: <u>4</u>	Date / Time: <u></u>
Relinquished By: <u>5</u>	Date / Time: <u></u>	Received By: <u>6</u>	Date / Time: <u></u>

Custody Seal #

☐ Intact
☐ Not Intact
☐ Absent

Therm ID: 23

On Ice: ☐

Cooler Temp. °C: 23

See Sample Receipt Summary

5.

JE25791: Chain of Custody

Page 1 of 2



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JE25791

SGS Sample Receipt Summary

Job Number: JE25791

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/22/2025 8:20:00 PM

Delivery Method: IMP

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☒	☐	☐
2. Trip Blank listed on COC:	☒	☐	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25791: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25791

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T666-MB	1T27994.D	1	12/30/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25791-1, JE25791-2, JE25791-3, JE25791-4, JE25791-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	94% 80-120%
17060-07-0	1,2-Dichloroethane-D4	90% 80-120%
2037-26-5	Toluene-D8	98% 80-120%
460-00-4	4-Bromofluorobenzene	95% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25791

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T666-BS	1T27992.D	1	12/30/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25791-1, JE25791-2, JE25791-3, JE25791-4, JE25791-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.3	99	80-115
100-41-4	Ethylbenzene	50	50.0	100	78-116
98-82-8	Isopropylbenzene	50	56.3	113	78-121
1634-04-4	Methyl Tert Butyl Ether	50	50.1	100	76-123
91-20-3	Naphthalene	50	64.5	129	64-136
108-88-3	Toluene	50	47.6	95	79-116
95-63-6	1,2,4-Trimethylbenzene	50	57.6	115	78-120
108-67-8	1,3,5-Trimethylbenzene	50	57.2	114	77-120
1330-20-7	Xylene (total)	150	160	107	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	80-120%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	100%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JE25791
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25852-10MS	1T27999.D	4	12/31/25	ED	n/a	n/a	V1T666
JE25852-10MSD	1T28000.D	4	12/31/25	ED	n/a	n/a	V1T666
JE25852-10 ^a	1T27998.D	4	12/31/25	ED	n/a	n/a	V1T666

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25791-1, JE25791-2, JE25791-3, JE25791-4, JE25791-5

CAS No.	Compound	JE25852-10 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	200	214	107	200	209	105	2	49-137/12
100-41-4	Ethylbenzene	131	200	332	101	200	329	99	1	37-144/12
98-82-8	Isopropylbenzene	42.0	200	277	118	200	277	118	0	71-126/13
1634-04-4	Methyl Tert Butyl Ether	44.3	200	254	105	200	258	107	2	66-124/12
91-20-3	Naphthalene	ND	200	278	139	200	287	144	3	49-146/18
108-88-3	Toluene	ND	200	200	100	200	198	99	1	46-139/12
95-63-6	1,2,4-Trimethylbenzene	645	200	829	92	200	834	95	1	39-147/13
108-67-8	1,3,5-Trimethylbenzene	107	200	334	114	200	342	118	2	56-136/14
1330-20-7	Xylene (total)	17.2	600	686	111	600	677	110	1	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25852-10	Limits
1868-53-7	Dibromofluoromethane	93%	92%	94%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	91%	93%	80-120%
2037-26-5	Toluene-D8	98%	97%	100%	80-120%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	82-114%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25791
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1T659-BFB
Lab File ID: 1T27696.D
Instrument ID: GCMS1T
Injection Date: 12/23/25
Injection Time: 21:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	66995	19.7	Pass
75	30.0 - 80.0% of mass 95	174181	51.2	Pass
95	Base peak, 100% relative abundance	340288	100.0	Pass
96	5.0 - 9.0% of mass 95	22728	6.68	Pass
173	Less than 2.0% of mass 174	3300	0.97 (1.15) ^a	Pass
174	50.0 - 120.0% of mass 95	286464	84.2	Pass
175	5.0 - 9.0% of mass 174	21741	6.39 (7.59) ^a	Pass
176	95.0 - 101.0% of mass 174	275648	81.0 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	17487	5.14 (6.34) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1T659-IC659	1T27698.D	12/23/25	22:22	00:50	Initial cal 0.2
V1T659-IC659	1T27700.D	12/23/25	22:49	01:17	Initial cal 0.5
V1T659-IC659	1T27702.D	12/23/25	23:17	01:45	Initial cal 1
V1T659-IC659	1T27704.D	12/23/25	23:44	02:12	Initial cal 2
V1T659-IC659	1T27706.D	12/24/25	00:11	02:39	Initial cal 4
V1T659-IC659	1T27708.D	12/24/25	00:39	03:07	Initial cal 8
V1T659-IC659	1T27710.D	12/24/25	01:06	03:34	Initial cal 20
V1T659-ICC659	1T27712.D	12/24/25	01:33	04:01	Initial cal 50
V1T659-IC659	1T27714.D	12/24/25	02:01	04:29	Initial cal 100
V1T659-IC659	1T27716.D	12/24/25	02:28	04:56	Initial cal 200
V1T659-ICV659	1T27722.D	12/24/25	03:50	06:18	Initial cal verification 50
V1T659-ICV659	1T27724.D	12/24/25	04:17	06:45	Initial cal verification 50
V1T660-CC659	1T27729.D	12/24/25	09:04	11:32	Continuing cal 20
V1T660-BS	1T27730.D	12/24/25	09:33	12:01	Blank Spike
V1T660-MB	1T27732.D	12/24/25	10:25	12:53	Method Blank
ZZZZZZ	1T27733.D	12/24/25	10:51	13:19	(unrelated sample)
ZZZZZZ	1T27734.D	12/24/25	11:16	13:44	(unrelated sample)
ZZZZZZ	1T27735.D	12/24/25	11:42	14:10	(unrelated sample)
JE25432-1	1T27736.D	12/24/25	12:08	14:36	(used for QC only; not part of job JE25791)
ZZZZZZ	1T27738.D	12/24/25	13:00	15:28	(unrelated sample)
ZZZZZZ	1T27739.D	12/24/25	13:26	15:54	(unrelated sample)
ZZZZZZ	1T27740.D	12/24/25	13:51	16:19	(unrelated sample)
JE25432-1MS	1T27741.D	12/24/25	14:17	16:45	Matrix Spike
JE25432-1MSD	1T27742.D	12/24/25	14:43	17:11	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JE25791
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	V1T659-BFB	Injection Date:	12/23/25
Lab File ID:	1T27696.D	Injection Time:	21:32
Instrument ID:	GCMS1T		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1T27743.D	12/24/25	15:09	17:37	(unrelated sample)
ZZZZZZ	1T27744.D	12/24/25	15:34	18:02	(unrelated sample)
JE25432-1	1T27745.D	12/24/25	16:00	18:28	(used for QC only; not part of job JE25791)
ZZZZZZ	1T27746.D	12/24/25	16:26	18:54	(unrelated sample)
ZZZZZZ	1T27747.D	12/24/25	16:52	19:20	(unrelated sample)
ZZZZZZ	1T27748.D	12/24/25	17:18	19:46	(unrelated sample)
ZZZZZZ	1T27749.D	12/24/25	17:43	20:11	(unrelated sample)
ZZZZZZ	1T27750.D	12/24/25	18:09	20:37	(unrelated sample)
ZZZZZZ	1T27751.D	12/24/25	18:35	21:03	(unrelated sample)
ZZZZZZ	1T27752.D	12/24/25	19:00	21:28	(unrelated sample)
ZZZZZZ	1T27753.D	12/24/25	19:26	21:54	(unrelated sample)
ZZZZZZ	1T27754.D	12/24/25	19:52	22:20	(unrelated sample)
ZZZZZZ	1T27755.D	12/24/25	20:18	22:46	(unrelated sample)
ZZZZZZ	1T27756.D	12/24/25	20:43	23:11	(unrelated sample)
V1T661-CC659	1T27759.D	12/24/25	22:01	24:29	Continuing cal 50

6.4.1
6

Surrogate Recovery Summary

Job Number: JE25791
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25791-1	1T28004.D	96	95	99	97
JE25791-2	1T28005.D	95	96	98	97
JE25791-3	1T28006.D	96	96	99	100
JE25791-4	1T28002.D	96	92	98	99
JE25791-5	1T28003.D	96	94	97	96
JE25852-10MS	1T27999.D	93	98	98	98
JE25852-10MSD	1T28000.D	92	91	97	99
V1T666-BS	1T27992.D	91	89	97	100
V1T666-MB	1T27994.D	94	90	98	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Langan Engineering & Environmental

MIPC Aston, PA

220240201

SGS Job Number: JE25857

Sampling Date: 12/23/25

Report to:

Langan Engineering & Environmental
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Total number of pages in report: **31**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Carin Ferris 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Sample Summary

Langan Engineering & Environmental

Job No: JE25857

MIPC Aston, PA
Project No: 220240201

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE25857-1	12/23/25	10:05	NC	12/23/25	AQ	Ground Water	MW-3_122325
JE25857-2	12/23/25	12:55	NC	12/23/25	AQ	Ground Water	MW-10_122325
JE25857-3	12/23/25	13:20	NC	12/23/25	AQ	Ground Water	MW-11_122325
JE25857-4	12/23/25	15:00	NC	12/23/25	AQ	Ground Water	MW-12_122325
JE25857-5	12/23/25	15:10	NC	12/23/25	AQ	Field Blank Water	FB-2_122325
JE25857-6	12/23/25	15:10	NC	12/23/25	AQ	Trip Blank Water	TB-2_122325

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No: JE25857

Site: MIPC Aston, PA

Report Date 1/7/2026 8:35:43 AM

On 12/23/2025, 4 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE25857 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V1S542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25836-7MS, JE25836-7MSD were used as the QC samples indicated.
- The matrix spike (MS) / matrix spike duplicate (MSD) recovery(s) of Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ

Batch ID: V2S542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE25836-9MS, JE25836-9MSD were used as the QC samples indicated.
- The matrix spike (MS) / matrix spike duplicate (MSD) recovery(s) of Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE25857
Account: Langan Engineering & Environmental
Project: MIPC Aston, PA
Collected: 12/23/25



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method

JE25857-1 MW-3_122325

No hits reported in this sample.

JE25857-2 MW-10_122325

No hits reported in this sample.

JE25857-3 MW-11_122325

Toluene	2.8	1.0	0.49	ug/l	SW846 8260D
Xylene (total)	1.3	1.0	0.59	ug/l	SW846 8260D

JE25857-4 MW-12_122325

No hits reported in this sample.

JE25857-5 FB-2_122325

No hits reported in this sample.

JE25857-6 TB-2_122325

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-3_122325		
Lab Sample ID:	JE25857-1	Date Sampled:	12/23/25
Matrix:	AQ - Ground Water	Date Received:	12/23/25
Method:	SW846 8260D	Percent Solids:	n/a
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2S022348.D	1	12/31/25 20:25	ED	n/a	n/a	V2S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10_122325	Date Sampled:	12/23/25
Lab Sample ID:	JE25857-2	Date Received:	12/23/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S022349.D	1	12/31/25 20:37	ED	n/a	n/a	V1S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	88%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	92%		82-114%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11_122325	Date Sampled:	12/23/25
Lab Sample ID:	JE25857-3	Date Received:	12/23/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2S022350.D	1	12/31/25 20:51	ED	n/a	n/a	V2S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	2.8	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	1.3	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	92%		82-114%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12_122325	Date Sampled:	12/23/25
Lab Sample ID:	JE25857-4	Date Received:	12/23/25
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S022351.D	1	12/31/25 21:03	ED	n/a	n/a	V1S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2_122325	Date Sampled:	12/23/25
Lab Sample ID:	JE25857-5	Date Received:	12/23/25
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2S022346.D	1	12/31/25 19:59	ED	n/a	n/a	V2S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-2_122325		
Lab Sample ID:	JE25857-6	Date Sampled:	12/23/25
Matrix:	AQ - Trip Blank Water	Date Received:	12/23/25
Method:	SW846 8260D	Percent Solids:	n/a
Project:	MIPC Aston, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S022347.D	1	12/31/25 20:12	ED	n/a	n/a	V1S542
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

PA Unleaded Gasoline List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	91%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

JE25857

Bottle Order Control # CF-121525-116

FED-EX Tracking #

SGS Job #	

SGS Quote # 2025-5383

[illegible]

2.1 C1Pw

JE25857: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: je25857

Client: LANGAN ENGINEERING & ENVIRONMEN

Project: MIPC ASTON, PA

Date / Time Received: 12/23/2025 7:25:00 PM

Delivery Method: CLIENT

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

Cooler Security

Y or N

Y or N

1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

Y or N

1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR-50	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:	☒	☐	☐
2. Trip Blank listed on COC:	☒	☐	☐
3. Samples preserved properly:	☒	☐	
4. VOCs headspace free:	☒	☐	☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:	☒	☐
2. Container labeling complete:	☒	☐
3. Sample container label / COC agree:	☒	☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:	☒	☐
2. All containers accounted for:	☒	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:	☒	☐	
2. Bottles received for unspecified tests	☐	☒	
3. Sufficient volume recvd for analysis:	☒	☐	
4. Compositing instructions clear:	☐	☐	☒
5. Filtering instructions clear:	☐	☐	☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JE25857: Chain of Custody

Page 2 of 2



MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1S542-MB	1S022309.D	1	12/31/25	ED	n/a	n/a	V1S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-2, JE25857-4, JE25857-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	108%
17060-07-0	1,2-Dichloroethane-D4	92%
2037-26-5	Toluene-D8	99%
460-00-4	4-Bromofluorobenzene	94%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2S542-MB	2S022310.D	1	12/31/25	ED	n/a	n/a	V2S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-1, JE25857-3, JE25857-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
91-20-3	Naphthalene	ND	5.0	4.4	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	110%
17060-07-0	1,2-Dichloroethane-D4	92%
2037-26-5	Toluene-D8	99%
460-00-4	4-Bromofluorobenzene	95%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1S542-BS	1S022305.D	1	12/31/25	ED	n/a	n/a	V1S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-2, JE25857-4, JE25857-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.7	99	80-115
100-41-4	Ethylbenzene	50	45.6	91	78-116
98-82-8	Isopropylbenzene	50	46.0	92	78-121
1634-04-4	Methyl Tert Butyl Ether	50	49.4	99	76-123
91-20-3	Naphthalene	50	50.2	100	64-136
108-88-3	Toluene	50	46.9	94	79-116
95-63-6	1,2,4-Trimethylbenzene	50	46.1	92	78-120
108-67-8	1,3,5-Trimethylbenzene	50	45.9	92	77-120
1330-20-7	Xylene (total)	150	143	95	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	82-114%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2S542-BS	2S022306.D	1	12/31/25	ED	n/a	n/a	V2S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-1, JE25857-3, JE25857-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	52.7	105	80-115
100-41-4	Ethylbenzene	50	47.2	94	78-116
98-82-8	Isopropylbenzene	50	48.0	96	78-121
1634-04-4	Methyl Tert Butyl Ether	50	51.7	103	76-123
91-20-3	Naphthalene	50	51.3	103	64-136
108-88-3	Toluene	50	50.4	101	79-116
95-63-6	1,2,4-Trimethylbenzene	50	48.3	97	78-120
108-67-8	1,3,5-Trimethylbenzene	50	48.1	96	77-120
1330-20-7	Xylene (total)	150	150	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	85%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	96%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25836-9MS	2S022334.D	20	12/31/25	ED	n/a	n/a	V2S542
JE25836-9MSD	2S022336.D	20	12/31/25	ED	n/a	n/a	V2S542
JE25836-9 ^a	2S022330.D	20	12/31/25	ED	n/a	n/a	V2S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-1, JE25857-3, JE25857-5

CAS No.	Compound	JE25836-9 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2050	1000	2720	67	1000	2640	59	3	49-137/12
100-41-4	Ethylbenzene	1600	1000	2260	66	1000	2240	64	1	37-144/12
98-82-8	Isopropylbenzene	197	1000	1150	95	1000	1140	94	1	71-126/13
1634-04-4	Methyl Tert Butyl Ether	60.8	1000	1180	112	1000	1140	108	3	66-124/12
91-20-3	Naphthalene	455	1000	1530	108	1000	1540	109	1	49-146/18
108-88-3	Toluene	3270	1000	3660	39* ^b	1000	3610	34* ^b	1	46-139/12
95-63-6	1,2,4-Trimethylbenzene	2400	1000	2960	56	1000	2980	58	1	39-147/13
108-67-8	1,3,5-Trimethylbenzene	612	1000	1500	89	1000	1490	88	1	56-136/14
1330-20-7	Xylene (total)	8410	3000	9640	41	3000	9560	38	1	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25836-9	Limits
1868-53-7	Dibromofluoromethane	102%	100%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	90%	89%	91%	80-120%
2037-26-5	Toluene-D8	99%	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	97%	97%	82-114%

(a) Dilution required due to high concentration of target compound.

(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE25836-7MS	1S022335.D	5	12/31/25	ED	n/a	n/a	V1S542
JE25836-7MSD	1S022337.D	5	12/31/25	ED	n/a	n/a	V1S542
JE25836-7	1S022329.D	5	12/31/25	ED	n/a	n/a	V1S542

The QC reported here applies to the following samples:

Method: SW846 8260D

JE25857-2, JE25857-4, JE25857-6

CAS No.	Compound	JE25836-7 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	37.6		250	277	96	250	274	95	1	49-137/12
100-41-4	Ethylbenzene	1310	E	250	1270	-16* a	250	1260	-20* a	1	37-144/12
98-82-8	Isopropylbenzene	268		250	445	71	250	445	71	0	71-126/13
1634-04-4	Methyl Tert Butyl Ether	26.9		250	274	99	250	273	98	0	66-124/12
91-20-3	Naphthalene	434		250	701	107	250	704	108	0	49-146/18
108-88-3	Toluene	54.7		250	284	92	250	282	91	1	46-139/12
95-63-6	1,2,4-Trimethylbenzene	761		250	892	52	250	899	55	1	39-147/13
108-67-8	1,3,5-Trimethylbenzene	208		250	413	82	250	413	82	0	56-136/14
1330-20-7	Xylene (total)	1160		750	1650	65	750	1640	64	1	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JE25836-7	Limits
1868-53-7	Dibromofluoromethane	98%	99%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	88%	90%	80-120%
2037-26-5	Toluene-D8	99%	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	94%	82-114%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1S519-BFB
Lab File ID: 1S021204.D
Instrument ID: GCMS1S
Injection Date: 12/03/25
Injection Time: 18:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	32088	18.3	Pass
75	30.0 - 60.0% of mass 95	88528	50.4	Pass
95	Base peak, 100% relative abundance	175616	100.0	Pass
96	5.0 - 9.0% of mass 95	11319	6.45	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 100.0% of mass 95	147085	83.8	Pass
175	5.0 - 9.0% of mass 174	11915	6.78 (8.10) ^a	Pass
176	95.0 - 101.0% of mass 174	141312	80.5 (96.1) ^a	Pass
177	5.0 - 9.0% of mass 176	9071	5.17 (6.42) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1S519-IC519	1S021206.D	12/03/25	19:11	00:52	Initial cal 0.2
V1S519-IC519	1S021208.D	12/03/25	19:36	01:17	Initial cal 0.5
V1S519-IC519	1S021210.D	12/03/25	20:02	01:43	Initial cal 1
V1S519-IC519	1S021212.D	12/03/25	20:28	02:09	Initial cal 2
V1S519-IC519	1S021214.D	12/03/25	20:54	02:35	Initial cal 4
V1S519-IC519	1S021216.D	12/03/25	21:20	03:01	Initial cal 8
V1S519-IC519	1S021218.D	12/03/25	21:46	03:27	Initial cal 20
V1S519-ICC519	1S021220.D	12/03/25	22:12	03:53	Initial cal 50
V1S519-IC519	1S021222.D	12/03/25	22:38	04:19	Initial cal 100
V1S519-IC519	1S021224.D	12/03/25	23:04	04:45	Initial cal 200
V1S519-ICV519	1S021230.D	12/04/25	00:22	06:03	Initial cal verification 50
V1S519-ICV519	1S021232.D	12/04/25	00:48	06:29	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1S519-BFB2
Lab File ID: 1S021238.D
Instrument ID: GCMS1S
Injection Date: 12/04/25
Injection Time: 14:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	32859	17.1	Pass
75	30.0 - 60.0% of mass 95	92651	48.2	Pass
95	Base peak, 100% relative abundance	192256	100.0	Pass
96	5.0 - 9.0% of mass 95	12363	6.43	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	163328	85.0	Pass
175	5.0 - 9.0% of mass 174	12569	6.54 (7.70) ^a	Pass
176	95.0 - 101.0% of mass 174	157840	82.1 (96.6) ^a	Pass
177	5.0 - 9.0% of mass 176	10521	5.47 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1S519-ICV519	1S021240.D	12/04/25	14:47	00:26	Initial cal verification 50
V1S520-CC519	1S021244.D	12/05/25	13:55	23:34	Continuing cal 20
V1S520-CC519	1S021246.D	12/05/25	14:37	24:16	Continuing cal 2
V1S520-BS	1S021248.D	12/05/25	15:03	24:42	Blank Spike

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V1S540-BFB
Lab File ID: 1S022202.D
Instrument ID: GCMS1S
Injection Date: 12/30/25
Injection Time: 10:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	37109	16.3	Pass
75	30.0 - 60.0% of mass 95	103368	45.4	Pass
95	Base peak, 100% relative abundance	227456	100.0	Pass
96	5.0 - 9.0% of mass 95	14865	6.54	Pass
173	Less than 2.0% of mass 174	1041	0.46 (0.55) ^a	Pass
174	50.0 - 120.0% of mass 95	187613	82.5	Pass
175	5.0 - 9.0% of mass 174	15122	6.65 (8.06) ^a	Pass
176	95.0 - 101.0% of mass 174	182157	80.1 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	12096	5.32 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1S540-CC519	1S022202.D	12/30/25	10:16	00:00	Continuing cal 20
V1S540-CC519	1S022204.D	12/30/25	11:04	00:48	Continuing cal 2
V1S540-BS	1S022206.D	12/30/25	11:29	01:13	Blank Spike
V1S540-MB	1S022210.D	12/30/25	12:21	02:05	Method Blank
ZZZZZZ	1S022212.D	12/30/25	12:47	02:31	(unrelated sample)
ZZZZZZ	1S022214.D	12/30/25	13:13	02:57	(unrelated sample)
ZZZZZZ	1S022218.D	12/30/25	14:05	03:49	(unrelated sample)
ZZZZZZ	1S022220.D	12/30/25	14:31	04:15	(unrelated sample)
ZZZZZZ	1S022222.D	12/30/25	14:57	04:41	(unrelated sample)
ZZZZZZ	1S022224.D	12/30/25	15:23	05:07	(unrelated sample)
ZZZZZZ	1S022226.D	12/30/25	15:49	05:33	(unrelated sample)
ZZZZZZ	1S022228.D	12/30/25	16:15	05:59	(unrelated sample)
JE25712-7	1S022230.D	12/30/25	16:42	06:26	(used for QC only; not part of job JE25857)
ZZZZZZ	1S022232.D	12/30/25	17:07	06:51	(unrelated sample)
ZZZZZZ	1S022234.D	12/30/25	17:33	07:17	(unrelated sample)
JE25712-7MS	1S022236.D	12/30/25	17:59	07:43	Matrix Spike
JE25712-7MSD	1S022238.D	12/30/25	18:25	08:09	Matrix Spike Duplicate
ZZZZZZ	1S022240.D	12/30/25	18:51	08:35	(unrelated sample)
ZZZZZZ	1S022242.D	12/30/25	19:17	09:01	(unrelated sample)
ZZZZZZ	1S022244.D	12/30/25	19:43	09:27	(unrelated sample)
ZZZZZZ	1S022246.D	12/30/25	20:09	09:53	(unrelated sample)
ZZZZZZ	1S022248.D	12/30/25	20:35	10:19	(unrelated sample)
ZZZZZZ	1S022250.D	12/30/25	21:01	10:45	(unrelated sample)
ZZZZZZ	1S022252.D	12/30/25	21:27	11:11	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: JE25857

Account: LANGPAP Langan Engineering & Environmental

Project: MIPC Aston, PA

Sample: V1S540-BFB

Injection Date: 12/30/25

Lab File ID: 1S022202.D

Injection Time: 10:16

Instrument ID: GCMS1S

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1S022254.D	12/30/25	21:53	11:37	(unrelated sample)
V1S541-CC519	1S022256.D	12/30/25	22:45	12:29	Continuing cal 50
V1S541-CC519	1S022258.D	12/30/25	23:11	12:55	Continuing cal 1
V1S541-BS	1S022260.D	12/30/25	23:37	13:21	Blank Spike
V1S541-MB	1S022264.D	12/31/25	00:29	14:13	Method Blank
JE25866-1	1S022266.D	12/31/25	00:55	14:39	(used for QC only; not part of job JE25857)
ZZZZZZ	1S022268.D	12/31/25	01:21	15:05	(unrelated sample)
JE25866-1MS	1S022270.D	12/31/25	01:47	15:31	Matrix Spike
JE25866-1MSD	1S022272.D	12/31/25	02:13	15:57	Matrix Spike Duplicate
ZZZZZZ	1S022276.D	12/31/25	03:05	16:49	(unrelated sample)
ZZZZZZ	1S022278.D	12/31/25	03:31	17:15	(unrelated sample)
ZZZZZZ	1S022280.D	12/31/25	03:57	17:41	(unrelated sample)
ZZZZZZ	1S022282.D	12/31/25	04:23	18:07	(unrelated sample)
ZZZZZZ	1S022284.D	12/31/25	04:49	18:33	(unrelated sample)
ZZZZZZ	1S022286.D	12/31/25	05:15	18:59	(unrelated sample)
ZZZZZZ	1S022288.D	12/31/25	05:41	19:25	(unrelated sample)
ZZZZZZ	1S022290.D	12/31/25	06:07	19:51	(unrelated sample)
ZZZZZZ	1S022292.D	12/31/25	06:33	20:17	(unrelated sample)
ZZZZZZ	1S022294.D	12/31/25	06:59	20:43	(unrelated sample)
ZZZZZZ	1S022296.D	12/31/25	07:25	21:09	(unrelated sample)
ZZZZZZ	1S022298.D	12/31/25	07:50	21:34	(unrelated sample)
V1S542-CC519	1S022301.D	12/31/25	09:25	23:09	Continuing cal 20
V1S542-CC519	1S022303.D	12/31/25	10:26	24:10	Continuing cal 2
V1S542-BS	1S022305.D	12/31/25	10:52	24:36	Blank Spike

6.4.3

6

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V2S519-BFB **Injection Date:** 12/03/25
Lab File ID: 2S021205.D **Injection Time:** 18:32
Instrument ID: GCMS2S

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	33995	17.6	Pass
75	30.0 - 60.0% of mass 95	96360	49.8	Pass
95	Base peak, 100% relative abundance	193301	100.0	Pass
96	5.0 - 9.0% of mass 95	12189	6.31	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 100.0% of mass 95	157531	81.5	Pass
175	5.0 - 9.0% of mass 174	12519	6.48 (7.95) ^a	Pass
176	95.0 - 101.0% of mass 174	151941	78.6 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	10121	5.24 (6.66) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2S519-IC519	2S021207.D	12/03/25	19:23	00:51	Initial cal 0.2
V2S519-IC519	2S021209.D	12/03/25	19:49	01:17	Initial cal 0.5
V2S519-IC519	2S021211.D	12/03/25	20:15	01:43	Initial cal 1
V2S519-IC519	2S021213.D	12/03/25	20:41	02:09	Initial cal 2
V2S519-IC519	2S021215.D	12/03/25	21:07	02:35	Initial cal 4
V2S519-IC519	2S021217.D	12/03/25	21:33	03:01	Initial cal 8
V2S519-IC519	2S021219.D	12/03/25	21:59	03:27	Initial cal 20
V2S519-ICC519	2S021221.D	12/03/25	22:25	03:53	Initial cal 50
V2S519-IC519	2S021223.D	12/03/25	22:51	04:19	Initial cal 100
V2S519-IC519	2S021225.D	12/03/25	23:17	04:45	Initial cal 200
V2S519-ICV519	2S021231.D	12/04/25	00:35	06:03	Initial cal verification 50
V2S519-ICV519	2S021233.D	12/04/25	01:01	06:29	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V2S519-BFB2
Lab File ID: 2S021239.D
Instrument ID: GCMS2S
Injection Date: 12/04/25
Injection Time: 14:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	33912	17.0	Pass
75	30.0 - 60.0% of mass 95	95541	47.8	Pass
95	Base peak, 100% relative abundance	199829	100.0	Pass
96	5.0 - 9.0% of mass 95	13403	6.71	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	167280	83.7	Pass
175	5.0 - 9.0% of mass 174	13201	6.61 (7.89) ^a	Pass
176	95.0 - 101.0% of mass 174	165149	82.6 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	11110	5.56 (6.73) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2S519-ICV519	2S021241.D	12/04/25	15:00	00:25	Initial cal verification 50
V2S520-CC519	2S021245.D	12/05/25	14:08	23:33	Continuing cal 20
V2S520-CC519	2S021247.D	12/05/25	14:50	24:15	Continuing cal 2
V2S520-BS	2S021249.D	12/05/25	15:16	24:41	Blank Spike

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample: V2S540-BFB **Injection Date:** 12/30/25
Lab File ID: 2S022203.D **Injection Time:** 10:29
Instrument ID: GCMS2S

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	38947	15.8	Pass
75	30.0 - 60.0% of mass 95	114848	46.7	Pass
95	Base peak, 100% relative abundance	245781	100.0	Pass
96	5.0 - 9.0% of mass 95	16154	6.57	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	215040	87.5	Pass
175	5.0 - 9.0% of mass 174	16652	6.78 (7.74) ^a	Pass
176	95.0 - 101.0% of mass 174	207872	84.6 (96.7) ^a	Pass
177	5.0 - 9.0% of mass 176	13185	5.36 (6.34) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2S540-CC519	2S022203.D	12/30/25	10:29	00:00	Continuing cal 20
V2S540-CC519	2S022205.D	12/30/25	11:16	00:47	Continuing cal 2
V2S540-BS	2S022207.D	12/30/25	11:42	01:13	Blank Spike
V2S540-MB	2S022211.D	12/30/25	12:34	02:05	Method Blank
ZZZZZZ	2S022213.D	12/30/25	13:00	02:31	(unrelated sample)
ZZZZZZ	2S022215.D	12/30/25	13:26	02:57	(unrelated sample)
ZZZZZZ	2S022217.D	12/30/25	13:52	03:23	(unrelated sample)
ZZZZZZ	2S022219.D	12/30/25	14:18	03:49	(unrelated sample)
ZZZZZZ	2S022221.D	12/30/25	14:44	04:15	(unrelated sample)
ZZZZZZ	2S022223.D	12/30/25	15:10	04:41	(unrelated sample)
ZZZZZZ	2S022225.D	12/30/25	15:36	05:07	(unrelated sample)
ZZZZZZ	2S022227.D	12/30/25	16:02	05:33	(unrelated sample)
ZZZZZZ	2S022229.D	12/30/25	16:29	06:00	(unrelated sample)
JE25712-9	2S022231.D	12/30/25	16:55	06:26	(used for QC only; not part of job JE25857)
ZZZZZZ	2S022233.D	12/30/25	17:21	06:52	(unrelated sample)
ZZZZZZ	2S022235.D	12/30/25	17:47	07:18	(unrelated sample)
JE25712-9MS	2S022237.D	12/30/25	18:13	07:44	Matrix Spike
JE25712-9MSD	2S022239.D	12/30/25	18:38	08:09	Matrix Spike Duplicate
ZZZZZZ	2S022243.D	12/30/25	19:30	09:01	(unrelated sample)
ZZZZZZ	2S022245.D	12/30/25	19:56	09:27	(unrelated sample)
ZZZZZZ	2S022249.D	12/30/25	20:48	10:19	(unrelated sample)
ZZZZZZ	2S022251.D	12/30/25	21:14	10:45	(unrelated sample)
ZZZZZZ	2S022253.D	12/30/25	21:40	11:11	(unrelated sample)
ZZZZZZ	2S022255.D	12/30/25	22:06	11:37	(unrelated sample)

Instrument Performance Check (BFB)

Page 2 of 2

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Sample:	V2S540-BFB	Injection Date:	12/30/25
Lab File ID:	2S022203.D	Injection Time:	10:29
Instrument ID:	GCMS2S		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2S541-CC519	2S022257.D	12/30/25	22:58	12:29	Continuing cal 50
V2S541-CC519	2S022259.D	12/30/25	23:24	12:55	Continuing cal 1
V2S541-BS	2S022261.D	12/30/25	23:50	13:21	Blank Spike
V2S541-MB	2S022265.D	12/31/25	00:42	14:13	Method Blank
JE25866-7	2S022267.D	12/31/25	01:08	14:39	(used for QC only; not part of job JE25857)
ZZZZZZ	2S022269.D	12/31/25	01:34	15:05	(unrelated sample)
JE25866-7MS	2S022271.D	12/31/25	02:00	15:31	Matrix Spike
JE25866-7MSD	2S022273.D	12/31/25	02:26	15:57	Matrix Spike Duplicate
ZZZZZZ	2S022277.D	12/31/25	03:18	16:49	(unrelated sample)
ZZZZZZ	2S022279.D	12/31/25	03:44	17:15	(unrelated sample)
ZZZZZZ	2S022281.D	12/31/25	04:10	17:41	(unrelated sample)
ZZZZZZ	2S022283.D	12/31/25	04:36	18:07	(unrelated sample)
ZZZZZZ	2S022285.D	12/31/25	05:02	18:33	(unrelated sample)
ZZZZZZ	2S022287.D	12/31/25	05:28	18:59	(unrelated sample)
ZZZZZZ	2S022289.D	12/31/25	05:54	19:25	(unrelated sample)
ZZZZZZ	2S022291.D	12/31/25	06:20	19:51	(unrelated sample)
ZZZZZZ	2S022293.D	12/31/25	06:46	20:17	(unrelated sample)
ZZZZZZ	2S022295.D	12/31/25	07:12	20:43	(unrelated sample)
ZZZZZZ	2S022297.D	12/31/25	07:38	21:09	(unrelated sample)
V2S542-CC519	2S022302.D	12/31/25	09:38	23:09	Continuing cal 20
V2S542-CC519	2S022304.D	12/31/25	10:39	24:10	Continuing cal 2
V2S542-BS	2S022306.D	12/31/25	11:05	24:36	Blank Spike

6.4.6

6

Surrogate Recovery Summary

Job Number: JE25857
Account: LANGPAP Langan Engineering & Environmental
Project: MIPC Aston, PA

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE25857-1	2S022348.D	105	90	99	94
JE25857-2	1S022349.D	107	88	100	92
JE25857-3	2S022350.D	105	89	100	92
JE25857-4	1S022351.D	107	90	101	95
JE25857-5	2S022346.D	107	90	98	94
JE25857-6	1S022347.D	107	91	99	93
JE25836-7MS	1S022335.D	98	86	99	95
JE25836-7MSD	1S022337.D	99	88	98	96
JE25836-9MS	2S022334.D	102	90	99	94
JE25836-9MSD	2S022336.D	100	89	98	97
V1S542-BS	1S022305.D	101	89	99	95
V1S542-MB	1S022309.D	108	92	99	94
V2S542-BS	2S022306.D	101	85	100	96
V2S542-MB	2S022310.D	110	92	99	95

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

ATTACHMENT 4

Perimeter Air Monitoring Analytical Report: December 31, 2025
and January 1, 2026



ANALYTICAL REPORT

Lab Number:	L2600107
Client:	Langan Engineering & Environmental 1818 Market Street Suite 3300 Philadelphia, PA 19103-3638
ATTN:	Adam Goldberg
Phone:	(215) 845-8946
Project Name:	MIPC ASTON, PA
Project Number:	220240201/400/VSR2
Report Date:	01/05/26

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2600107-01	AA-1_20251231	AIR	ASTON, PA	12/31/25 23:52	01/02/26
L2600107-02	AA-2_20251231	AIR	ASTON, PA	12/31/25 23:52	01/02/26
L2600107-03	AA-3_20251231	AIR	ASTON, PA	01/01/26 01:02	01/02/26
L2600107-04	AA-4_20251231	AIR	ASTON, PA	01/01/26 01:02	01/02/26
L2600107-05	AA-1_20260101	AIR	ASTON, PA	01/02/26 00:00	01/02/26
L2600107-06	AA-2_20260101	AIR	ASTON, PA	01/02/26 00:00	01/02/26
L2600107-07	AA-3_20260101	AIR	ASTON, PA	01/02/26 00:00	01/02/26
L2600107-08	AA-4_20260101	AIR	ASTON, PA	01/02/26 00:00	01/02/26
L2600107-09	UNUSED CAN#1987	AIR	ASTON, PA		01/02/26
L2600107-10	UNUSED CAN#957	AIR	ASTON, PA		01/02/26

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on December 29, 2025. The canister certification data is provided as an addendum.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

Samples L2600107-05 through -08 used NuTech flow controllers instead of the laboratory provided flow controllers.

L2600107-04D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 01/05/26

AIR

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-01
 Client ID: AA-1_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/04/26 22:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.489	0.200	0.076	2.42	0.989	0.374		1
Chloromethane	0.521	0.200	0.058	1.08	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	1.19	1.00	0.515	2.83	2.38	1.22		1
Trichlorofluoromethane	0.206	0.200	0.079	1.16	1.12	0.442		1
Isopropanol	0.287	1.00	0.272	0.705	2.46	0.669	J	1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.128	0.500	0.125	0.445	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.067	0.200	0.051	0.514	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.237	0.200	0.074	0.835	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-01
 Client ID: AA-1_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.153	0.200	0.064	0.489	0.639	0.205	J	1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	0.227	0.200	0.087	0.855	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-01
 Client ID: AA-1_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-01
 Client ID: AA-1_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/04/26 22:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.081	0.050	0.039	0.186	0.115	0.089		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	105		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-02
 Client ID: AA-2_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/04/26 22:53
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.468	0.200	0.076	2.31	0.989	0.374		1
Chloromethane	0.485	0.200	0.058	1.00	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	0.742	1.00	0.515	1.76	2.38	1.22	J	1
Trichlorofluoromethane	0.197	0.200	0.079	1.11	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.128	0.500	0.125	0.445	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.063	0.200	0.051	0.483	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.138	0.200	0.074	0.486	0.705	0.262	J	1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-02
 Client ID: AA-2_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.129	0.200	0.064	0.412	0.639	0.205	J	1
Carbon tetrachloride	0.076	0.200	0.069	0.478	1.26	0.432	J	1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-02
 Client ID: AA-2_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	94		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-02
 Client ID: AA-2_20251231
 Sample Location: ASTON, PA

Date Collected: 12/31/25 23:52
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/04/26 22:53
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.040	0.050	0.039	0.092	0.115	0.089	J	1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	108		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-03
 Client ID: AA-3_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/04/26 23:31
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.463	0.200	0.076	2.29	0.989	0.374		1
Chloromethane	0.506	0.200	0.058	1.04	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	3.35	1.00	0.515	7.96	2.38	1.22		1
Trichlorofluoromethane	0.193	0.200	0.079	1.08	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.129	0.500	0.125	0.448	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.061	0.200	0.051	0.468	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.111	0.200	0.074	0.391	0.705	0.262	J	1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-03
 Client ID: AA-3_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.118	0.200	0.064	0.377	0.639	0.205	J	1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-03
 Client ID: AA-3_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	92		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-03
 Client ID: AA-3_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/04/26 23:31
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.086	0.050	0.039	0.197	0.115	0.089		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	104		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-04 D
 Client ID: AA-4_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/05/26 00:08
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.461	0.441	0.167	2.28	2.18	0.826		2.206
Chloromethane	0.452	0.441	0.127	0.933	0.911	0.262		2.206
Vinyl chloride	ND	0.441	0.128	ND	1.13	0.327		2.206
1,3-Butadiene	ND	0.441	0.136	ND	0.976	0.301		2.206
Bromomethane	ND	0.441	0.121	ND	1.71	0.470		2.206
Chloroethane	ND	0.441	0.143	ND	1.16	0.377		2.206
Vinyl bromide	ND	0.441	0.159	ND	1.93	0.695		2.206
Acetone	ND	2.21	1.14	ND	5.25	2.71		2.206
Trichlorofluoromethane	0.188	0.441	0.174	1.06	2.48	0.978	J	2.206
Isopropanol	0.613	2.21	0.600	1.51	5.43	1.47	J	2.206
1,1-Dichloroethene	ND	0.441	0.125	ND	1.75	0.496		2.206
Methylene chloride	ND	1.10	0.276	ND	3.82	0.959		2.206
3-Chloropropene	ND	0.441	0.190	ND	1.38	0.595		2.206
Carbon disulfide	ND	0.441	0.102	ND	1.37	0.318		2.206
Freon-113	ND	0.441	0.112	ND	3.38	0.858		2.206
trans-1,2-Dichloroethene	ND	0.441	0.166	ND	1.75	0.658		2.206
1,1-Dichloroethane	ND	0.441	0.125	ND	1.78	0.506		2.206
Methyl tert butyl ether	ND	0.441	0.099	ND	1.59	0.358		2.206
Chloroform	ND	0.441	0.122	ND	2.15	0.596		2.206
Tetrahydrofuran	ND	1.10	0.258	ND	3.24	0.761		2.206
1,2-Dichloroethane	ND	0.441	0.174	ND	1.78	0.704		2.206
n-Hexane	0.225	0.441	0.164	0.793	1.55	0.578	J	2.206
1,1,1-Trichloroethane	ND	0.441	0.135	ND	2.41	0.737		2.206



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-04 D
 Client ID: AA-4_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.143	0.441	0.142	0.457	1.41	0.454	J	2.206
Carbon tetrachloride	ND	0.441	0.151	ND	2.77	0.950		2.206
Cyclohexane	ND	0.441	0.160	ND	1.52	0.551		2.206
1,2-Dichloropropane	ND	0.441	0.139	ND	2.04	0.642		2.206
1,4-Dioxane	ND	0.441	0.119	ND	1.59	0.429		2.206
Trichloroethene	ND	0.441	0.121	ND	2.37	0.650		2.206
Methyl Methacrylate	ND	1.10	0.498	ND	4.50	2.04		2.206
4-Methyl-2-pentanone	ND	1.10	0.419	ND	4.51	1.72		2.206
Toluene	ND	0.441	0.191	ND	1.66	0.720		2.206
1,3-Dichloropropane	ND	0.441	0.118	ND	2.04	0.545		2.206
Tetrachloroethene	ND	0.441	0.138	ND	2.99	0.936		2.206
Xylenes, Total	ND	0.441	0.137	ND	1.92	0.595		2.206
Chlorobenzene	ND	0.441	0.114	ND	2.03	0.525		2.206
Ethylbenzene	ND	0.441	0.127	ND	1.92	0.552		2.206
p/m-Xylene	ND	0.882	0.276	ND	3.83	1.20		2.206
Bromoform	ND	0.441	0.131	ND	4.56	1.35		2.206
Styrene	ND	0.441	0.131	ND	1.88	0.558		2.206
o-Xylene	ND	0.441	0.137	ND	1.92	0.595		2.206
Isopropylbenzene	ND	0.441	0.137	ND	2.17	0.674		2.206
1,3,5-Trimethylbenzene	ND	0.441	0.132	ND	2.17	0.649		2.206
1,2,4-Trimethylbenzene	ND	0.441	0.127	ND	2.17	0.624		2.206
1,4-Dichlorobenzene	ND	0.441	0.182	ND	2.65	1.09		2.206
1,2-Dichlorobenzene	ND	0.441	0.136	ND	2.65	0.818		2.206
1,2,4-Trichlorobenzene	ND	0.441	0.221	ND	3.27	1.64		2.206



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-04 D
 Client ID: AA-4_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	93		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-04 D
 Client ID: AA-4_20251231
 Sample Location: ASTON, PA

Date Collected: 01/01/26 01:02
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/05/26 00:08
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	ND	0.110	0.085	ND	0.252	0.196		2.206
Acrylonitrile	ND	1.10	0.357	ND	2.39	0.775		2.206
Bromodichloromethane	ND	0.044	0.016	ND	0.295	0.109		2.206
1,1,2-Trichloroethane	ND	0.044	0.021	ND	0.241	0.117		2.206
Dibromochloromethane	ND	0.044	0.018	ND	0.376	0.150		2.206
1,2-Dibromoethane	ND	0.044	0.020	ND	0.339	0.154		2.206
1,1,2,2-Tetrachloroethane	ND	0.044	0.015	ND	0.303	0.102		2.206
Benzyl chloride	ND	0.221	0.073	ND	1.14	0.379		2.206
Naphthalene	ND	0.110	0.046	ND	0.577	0.243		2.206

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	113		60-140
chlorobenzene-d5	105		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-05
 Client ID: AA-1_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/05/26 00:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.446	0.200	0.076	2.21	0.989	0.374		1
Chloromethane	0.422	0.200	0.058	0.871	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	0.683	1.00	0.515	1.62	2.38	1.22	J	1
Trichlorofluoromethane	0.179	0.200	0.079	1.01	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.135	0.500	0.125	0.469	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.057	0.200	0.051	0.437	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.094	0.200	0.074	0.331	0.705	0.262	J	1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-05
 Client ID: AA-1_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.146	0.200	0.064	0.466	0.639	0.205	J	1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	0.168	0.200	0.087	0.633	0.754	0.327	J	1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-05
 Client ID: AA-1_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	113		60-140
chlorobenzene-d5	105		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-05
 Client ID: AA-1_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/05/26 00:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.040	0.050	0.039	0.092	0.115	0.089	J	1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	113		60-140
bromochloromethane	120		60-140
chlorobenzene-d5	118		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-06
 Client ID: AA-2_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/05/26 01:23
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.498	0.200	0.076	2.46	0.989	0.374		1
Chloromethane	0.492	0.200	0.058	1.02	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	0.852	1.00	0.515	2.02	2.38	1.22	J	1
Trichlorofluoromethane	0.191	0.200	0.079	1.07	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.143	0.500	0.125	0.497	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.062	0.200	0.051	0.475	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-06
 Client ID: AA-2_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.132	0.200	0.064	0.422	0.639	0.205	J	1
Carbon tetrachloride	0.077	0.200	0.069	0.484	1.26	0.432	J	1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-06
 Client ID: AA-2_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	100		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-06
 Client ID: AA-2_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/05/26 01:23
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.049	0.050	0.039	0.112	0.115	0.089	J	1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	116		60-140
chlorobenzene-d5	112		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-07
 Client ID: AA-3_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/05/26 02:38
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.486	0.200	0.076	2.40	0.989	0.374		1
Chloromethane	0.450	0.200	0.058	0.929	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	0.867	1.00	0.515	2.06	2.38	1.22	J	1
Trichlorofluoromethane	0.183	0.200	0.079	1.03	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.141	0.500	0.125	0.490	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.060	0.200	0.051	0.460	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-07
 Client ID: AA-3_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.121	0.200	0.064	0.387	0.639	0.205	J	1
Carbon tetrachloride	0.070	0.200	0.069	0.440	1.26	0.432	J	1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-07
 Client ID: AA-3_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	114		60-140
chlorobenzene-d5	107		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-07
 Client ID: AA-3_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/05/26 02:38
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.047	0.050	0.039	0.108	0.115	0.089	J	1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	113		60-140
bromochloromethane	120		60-140
chlorobenzene-d5	121		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-08
 Client ID: AA-4_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/05/26 03:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.498	0.200	0.076	2.46	0.989	0.374		1
Chloromethane	0.471	0.200	0.058	0.973	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acetone	0.871	1.00	0.515	2.07	2.38	1.22	J	1
Trichlorofluoromethane	0.191	0.200	0.079	1.07	1.12	0.442	J	1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	0.143	0.500	0.125	0.497	1.74	0.434	J	1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	0.068	0.200	0.051	0.521	1.53	0.388	J	1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	0.295	0.200	0.074	1.04	0.705	0.262		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-08
 Client ID: AA-4_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Benzene	0.239	0.200	0.064	0.764	0.639	0.205		1
Carbon tetrachloride	0.084	0.200	0.069	0.528	1.26	0.432	J	1
Cyclohexane	0.078	0.200	0.073	0.268	0.688	0.251	J	1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
Toluene	0.169	0.200	0.087	0.637	0.754	0.327	J	1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-08
 Client ID: AA-4_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	114		60-140
chlorobenzene-d5	99		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

SAMPLE RESULTS

Lab ID: L2600107-08
 Client ID: AA-4_20260101
 Sample Location: ASTON, PA

Date Collected: 01/02/26 00:00
 Date Received: 01/02/26
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/05/26 03:15
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Acrolein	0.049	0.050	0.039	0.112	0.115	0.089	J	1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	103		60-140
bromochloromethane	120		60-140
chlorobenzene-d5	111		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/04/26 20:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-08 Batch: WG2161525-4								
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Xylenes, Total	ND	0.200	0.062	ND	0.869	0.270		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/04/26 20:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-08 Batch: WG2161525-4								
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/04/26 20:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-08 Batch: WG2161525-4								
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.190	0.059	ND	0.996	0.309		1



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 01/04/26 21:37

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-08 Batch: WG2161526-4								
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 Batch: WG2161525-3								
Dichlorodifluoromethane	97		-		70-130	-		
Chloromethane	87		-		70-130	-		
Vinyl chloride	86		-		70-130	-		
1,3-Butadiene	85		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	97		-		70-130	-		
Vinyl bromide	99		-		70-130	-		
Acrolein	76		-		60-113	-		
Acetone	84		-		40-160	-		
Trichlorofluoromethane	97		-		70-130	-		
Isopropanol	80		-		40-160	-		
Acrylonitrile	85		-		70-130	-		
1,1-Dichloroethene	98		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	104		-		70-130	-		
Freon-113	101		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 Batch: WG2161525-3								
Methyl tert butyl ether	95		-		70-130	-		
Chloroform	106		-		70-130	-		
Tetrahydrofuran	99		-		70-130	-		
1,2-Dichloroethane	96		-		70-130	-		
n-Hexane	89		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Benzene	95		-		70-130	-		
Carbon tetrachloride	99		-		70-130	-		
Cyclohexane	89		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	102		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	99		-		70-130	-		
Methyl Methacrylate	78		-		40-160	-		
4-Methyl-2-pentanone	88		-		70-130	-		
1,1,2-Trichloroethane	95		-		70-130	-		
Toluene	103		-		70-130	-		
1,3-Dichloropropane	100		-		70-130	-		
Dibromochloromethane	121		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 Batch: WG2161525-3								
1,2-Dibromoethane	116		-		70-130	-		
Tetrachloroethene	108		-		70-130	-		
Chlorobenzene	109		-		70-130	-		
Ethylbenzene	105		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	126		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	115		-		70-130	-		
o-Xylene	107		-		70-130	-		
Isopropylbenzene	100		-		70-130	-		
1,3,5-Trimethylbenzene	110		-		70-130	-		
1,2,4-Trimethylbenzene	111		-		70-130	-		
Benzyl chloride	83		-		70-130	-		
1,4-Dichlorobenzene	112		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	99		-		70-130	-		
Naphthalene	79		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-08 Batch: WG2161526-3								
Acrolein	76		-		60-113	-		
Acrylonitrile	89		-		70-130	-		
Bromodichloromethane	114		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Dibromochloromethane	137	Q	-		70-130	-		
1,2-Dibromoethane	135	Q	-		70-130	-		
1,1,2,2-Tetrachloroethane	125		-		70-130	-		
Benzyl chloride	98		-		70-130	-		
Naphthalene	106		-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 QC Batch ID: WG2161525-5 QC Sample: L2600107-06 Client ID: AA-2_20260101						
Dichlorodifluoromethane	0.498	0.488	ppbV	2		25
Chloromethane	0.492	0.502	ppbV	2		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	0.852J	0.799J	ppbV	NC		25
Trichlorofluoromethane	0.191J	0.186J	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	0.143J	0.143J	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	0.062J	0.063J	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 QC Batch ID: WG2161525-5 QC Sample: L2600107-06 Client ID: AA-2_20260101						
Methyl tert butyl ether	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.132J	0.126J	ppbV	NC		25
Carbon tetrachloride	0.077J	0.072J	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
Methyl Methacrylate	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
Toluene	ND	ND	ppbV	NC		25
1,3-Dichloropropane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-08 QC Batch ID: WG2161525-5 QC Sample: L2600107-06 Client ID: AA-2_20260101						
Xylenes, Total	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
Isopropylbenzene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-08 QC Batch ID: WG2161526-5 QC Sample: L2600107-06 Client ID: AA-2_20260101						
Acrolein	0.049J	0.046J	ppbV	NC		25
Acrylonitrile	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
Naphthalene	ND	ND	ppbV	NC		25

Project Name: MIPC ASTON, PA

Serial_No:01052615:54
Lab Number: L2600107

Project Number: 220240201/400/VSR2

Report Date: 01/05/26

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controller Leak Chk	Flow Out mL/min	Flow In	% RPD
L2600107-01	AA-1_20251231	02929	Flow 5	12/29/25	550747		-	-	-	Pass	3.0	2.4	22
L2600107-01	AA-1_20251231	5780	6.0L TO Can	12/29/25	550747	L2581463-10	Pass	-29.3	-8.3	-	-	-	-
L2600107-02	AA-2_20251231	03266	Flow 4	12/29/25	550747		-	-	-	Pass	3.1	3.0	3
L2600107-02	AA-2_20251231	1576	6.0L Can	12/29/25	550747	L2581464-01	Pass	-29.4	-3.8	-	-	-	-
L2600107-03	AA-3_20251231	03184	Flow 4	12/29/25	550747		-	-	-	Pass	3.0	2.6	14
L2600107-03	AA-3_20251231	5624	6.0L TO Can	12/29/25	550747	L2581464-01	Pass	-29.4	-6.3	-	-	-	-
L2600107-04	AA-4_20251231	02734	Flow 4	12/29/25	550747		-	-	-	Pass	2.9	1.2	83
L2600107-04	AA-4_20251231	1565	6.0L Can	12/29/25	550747	L2581463-10	Pass	-29.4	-15.8	-	-	-	-
L2600107-05	AA-1_20260101	4968	6.0L Can	12/29/25	550747	L2581463-09	Pass	-29.5	-5.9	-	-	-	-
L2600107-06	AA-2_20260101	624	6.0L Can	12/29/25	550747	L2581464-01	Pass	-29.4	-3.3	-	-	-	-
L2600107-07	AA-3_20260101	2587	6.0L Can	12/29/25	550747	L2581463-09	Pass	-29.4	-5.6	-	-	-	-
L2600107-08	AA-4_20260101	4931	6.0L Can	12/29/25	550747	L2581464-01	Pass	-29.5	-4.4	-	-	-	-
L2600107-09	UNUSED CAN#1987	02730	Flow 4	12/29/25	550747		-	-	-	Pass	3.1	2.3	30
L2600107-09	UNUSED CAN#1987	1987	6.0L Can	12/29/25	550747	L2581463-10	Pass	-29.4	1.6	-	-	-	-
L2600107-10	UNUSED CAN#957	01828	Flow 4	12/29/25	550747		-	-	-	Pass	2.9	4.3	39

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Serial_No: 01052615:54
Lab Number: L2600107
Report Date: 01/05/26

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controller Leak Chk	Flow Out mL/min	Flow In	% RPD
L2600107-10	UNUSED CAN#957	957	6.0L Can	12/29/25	550747	L2581464-01	Pass	-29.4	-25.4	-	-	-	-



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-09
Client ID: CAN 4295 SHELF 129
Sample Location:

Date Collected: 12/21/25 12:21
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/25 02:47
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-09
Client ID: CAN 4295 SHELF 129
Sample Location:

Date Collected: 12/21/25 12:21
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-09
Client ID: CAN 4295 SHELF 129
Sample Location:

Date Collected: 12/21/25 12:21
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-09

Client ID: CAN 4295 SHELF 129

Sample Location:

Date Collected: 12/21/25 12:21

Date Received: 12/21/25

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.059	ND	0.996	0.309		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-09

Date Collected: 12/21/25 12:21

Client ID: CAN 4295 SHELF 129

Date Received: 12/21/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-09
Client ID: CAN 4295 SHELF 129
Sample Location:

Date Collected: 12/21/25 12:21
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/22/25 02:47
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-09
Client ID: CAN 4295 SHELF 129
Sample Location:

Date Collected: 12/21/25 12:21
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-09

Date Collected: 12/21/25 12:21

Client ID: CAN 4295 SHELF 129

Date Received: 12/21/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-10
Client ID: CAN 3282 SHELF 130
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/22/25 03:25
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-10
Client ID: CAN 3282 SHELF 130
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-10
 Client ID: CAN 3282 SHELF 130
 Sample Location:

Date Collected: 12/21/25 11:49
 Date Received: 12/21/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-10
Client ID: CAN 3282 SHELF 130
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.059	ND	0.996	0.309		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-10

Date Collected: 12/21/25 11:49

Client ID: CAN 3282 SHELF 130

Date Received: 12/21/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	90		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581463
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581463-10
Client ID: CAN 3282 SHELF 130
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/22/25 03:25
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-10
 Client ID: CAN 3282 SHELF 130
 Sample Location:

Date Collected: 12/21/25 11:49
 Date Received: 12/21/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581463**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581463-10
 Client ID: CAN 3282 SHELF 130
 Sample Location:

Date Collected: 12/21/25 11:49
 Date Received: 12/21/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	93		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581464
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581464-01
Client ID: CAN 4242 SHELF 131
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/21/25 20:43
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	0.046	ND	0.707	0.164		1
Propylene	ND	0.500	0.135	ND	0.861	0.232		1
Propane	ND	0.500	0.152	ND	0.902	0.274		1
Dichlorodifluoromethane	ND	0.200	0.076	ND	0.989	0.374		1
Chloromethane	ND	0.200	0.058	ND	0.413	0.119		1
Freon-114	ND	0.200	0.050	ND	1.40	0.352		1
Methanol	ND	5.00	3.03	ND	6.55	3.97		1
Vinyl chloride	ND	0.200	0.058	ND	0.511	0.149		1
1,3-Butadiene	ND	0.200	0.062	ND	0.442	0.137		1
Butane	ND	0.200	0.080	ND	0.475	0.190		1
Bromomethane	ND	0.200	0.055	ND	0.777	0.212		1
Chloroethane	ND	0.200	0.065	ND	0.528	0.171		1
Ethanol	ND	5.00	1.74	ND	9.42	3.28		1
Dichlorofluoromethane	ND	0.200	0.112	ND	0.842	0.471		1
Vinyl bromide	ND	0.200	0.072	ND	0.874	0.316		1
Acrolein	ND	0.500	0.149	ND	1.15	0.342		1
Acetone	ND	1.00	0.515	ND	2.38	1.22		1
Acetonitrile	ND	0.200	0.101	ND	0.336	0.170		1
Trichlorofluoromethane	ND	0.200	0.079	ND	1.12	0.442		1
Isopropanol	ND	1.00	0.272	ND	2.46	0.669		1
Acrylonitrile	ND	0.500	0.089	ND	1.09	0.194		1
Pentane	ND	0.200	0.113	ND	0.590	0.333		1
Ethyl ether	ND	0.200	0.085	ND	0.606	0.259		1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.793	0.225		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581464
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581464-01
Client ID: CAN 4242 SHELF 131
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	0.132	ND	1.52	0.400		1
Methylene chloride	ND	0.500	0.125	ND	1.74	0.434		1
3-Chloropropene	ND	0.200	0.086	ND	0.626	0.269		1
Carbon disulfide	ND	0.200	0.047	ND	0.623	0.145		1
Freon-113	ND	0.200	0.051	ND	1.53	0.388		1
trans-1,2-Dichloroethene	ND	0.200	0.076	ND	0.793	0.299		1
1,1-Dichloroethane	ND	0.200	0.057	ND	0.809	0.230		1
Methyl tert butyl ether	ND	0.200	0.045	ND	0.721	0.162		1
Vinyl acetate	ND	1.00	0.323	ND	3.52	1.14		1
Xylenes, total	ND	0.600	0.062	ND	0.869	0.270		1
2-Butanone	ND	0.500	0.099	ND	1.47	0.292		1
cis-1,2-Dichloroethene	ND	0.200	0.060	ND	0.793	0.236		1
Ethyl Acetate	ND	0.500	0.297	ND	1.80	1.07		1
Chloroform	ND	0.200	0.055	ND	0.977	0.270		1
Tetrahydrofuran	ND	0.500	0.117	ND	1.47	0.345		1
2,2-Dichloropropane	ND	0.200	0.043	ND	0.924	0.198		1
1,2-Dichloroethane	ND	0.200	0.079	ND	0.809	0.319		1
n-Hexane	ND	0.200	0.074	ND	0.705	0.262		1
Diisopropyl ether	ND	0.200	0.063	ND	0.836	0.264		1
tert-Butyl Ethyl Ether	ND	0.200	0.073	ND	0.836	0.306		1
1,2-Dichloroethene (total)	ND	1.00	0.060	ND	1.00	0.236		1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.335		1
1,1-Dichloropropene	ND	0.200	0.059	ND	0.908	0.269		1
Benzene	ND	0.200	0.064	ND	0.639	0.205		1
Carbon tetrachloride	ND	0.200	0.069	ND	1.26	0.432		1
Cyclohexane	ND	0.200	0.073	ND	0.688	0.251		1
tert-Amyl Methyl Ether	ND	0.200	0.067	ND	0.836	0.281		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581464
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581464-01
Client ID: CAN 4242 SHELF 131
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	0.060	ND	1.42	0.425		1
1,2-Dichloropropane	ND	0.200	0.063	ND	0.924	0.292		1
Bromodichloromethane	ND	0.200	0.069	ND	1.34	0.462		1
1,4-Dioxane	ND	0.200	0.054	ND	0.721	0.194		1
Trichloroethene	ND	0.200	0.055	ND	1.07	0.295		1
2,2,4-Trimethylpentane	ND	0.200	0.069	ND	0.934	0.323		1
Methyl Methacrylate	ND	0.500	0.226	ND	2.05	0.925		1
Heptane	ND	0.200	0.083	ND	0.820	0.339		1
cis-1,3-Dichloropropene	ND	0.200	0.067	ND	0.908	0.306		1
4-Methyl-2-pentanone	ND	0.500	0.190	ND	2.05	0.779		1
trans-1,3-Dichloropropene	ND	0.200	0.078	ND	0.908	0.355		1
1,1,2-Trichloroethane	ND	0.200	0.058	ND	1.09	0.318		1
Toluene	ND	0.200	0.087	ND	0.754	0.327		1
1,3-Dichloropropane	ND	0.200	0.054	ND	0.924	0.248		1
2-Hexanone	ND	0.200	0.091	ND	0.820	0.374		1
Dibromochloromethane	ND	0.200	0.057	ND	1.70	0.482		1
1,2-Dibromoethane	ND	0.200	0.054	ND	1.54	0.418		1
Butyl acetate	ND	0.500	0.208	ND	2.38	0.989		1
Octane	ND	0.200	0.068	ND	0.934	0.316		1
Tetrachloroethene	ND	0.200	0.063	ND	1.36	0.425		1
1,1,1,2-Tetrachloroethane	ND	0.200	0.051	ND	1.37	0.349		1
Chlorobenzene	ND	0.200	0.052	ND	0.921	0.238		1
Ethylbenzene	ND	0.200	0.058	ND	0.869	0.250		1
p/m-Xylene	ND	0.400	0.125	ND	1.74	0.543		1
Bromoform	ND	0.200	0.060	ND	2.07	0.616		1
Styrene	ND	0.200	0.060	ND	0.852	0.254		1
1,1,2,2-Tetrachloroethane	ND	0.200	0.052	ND	1.37	0.357		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581464**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581464-01

Client ID: CAN 4242 SHELF 131

Sample Location:

Date Collected: 12/21/25 11:49

Date Received: 12/21/25

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	0.062	ND	0.869	0.270		1
1,2,3-Trichloropropane	ND	0.200	0.058	ND	1.21	0.347		1
Nonane	ND	0.200	0.074	ND	1.05	0.387		1
Isopropylbenzene	ND	0.200	0.062	ND	0.983	0.305		1
Bromobenzene	ND	0.200	0.058	ND	0.793	0.230		1
2-Chlorotoluene	ND	0.200	0.076	ND	1.04	0.394		1
n-Propylbenzene	ND	0.200	0.063	ND	0.983	0.311		1
4-Chlorotoluene	ND	0.200	0.077	ND	1.04	0.396		1
4-Ethyltoluene	ND	0.200	0.055	ND	0.983	0.272		1
1,3,5-Trimethylbenzene	ND	0.200	0.060	ND	0.983	0.295		1
tert-Butylbenzene	ND	0.200	0.055	ND	1.10	0.302		1
1,2,4-Trimethylbenzene	ND	0.200	0.058	ND	0.983	0.284		1
Decane	ND	0.200	0.070	ND	1.16	0.406		1
Benzyl chloride	ND	0.200	0.094	ND	1.04	0.486		1
1,3-Dichlorobenzene	ND	0.200	0.078	ND	1.20	0.467		1
1,4-Dichlorobenzene	ND	0.200	0.083	ND	1.20	0.497		1
sec-Butylbenzene	ND	0.200	0.055	ND	1.10	0.300		1
p-Isopropyltoluene	ND	0.200	0.057	ND	1.10	0.311		1
1,2-Dichlorobenzene	ND	0.200	0.062	ND	1.20	0.372		1
n-Butylbenzene	ND	0.200	0.054	ND	1.10	0.294		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.062	ND	1.93	0.603		1
Undecane	ND	0.200	0.071	ND	1.28	0.453		1
Dodecane	ND	0.200	0.089	ND	1.39	0.621		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.742		1
Naphthalene	ND	0.200	0.059	ND	0.996	0.309		1
1,2,3-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.548		1
Hexachlorobutadiene	ND	0.200	0.061	ND	2.13	0.647		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581464**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581464-01

Date Collected: 12/21/25 11:49

Client ID: CAN 4242 SHELF 131

Date Received: 12/21/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581464
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581464-01
Client ID: CAN 4242 SHELF 131
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/21/25 20:43
Analyst: KMH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	0.050	ND	0.989	0.247		1
Chloromethane	ND	0.200	0.076	ND	0.413	0.156		1
Freon-114	ND	0.050	0.006	ND	0.349	0.045		1
Vinyl chloride	ND	0.020	0.009	ND	0.051	0.023		1
1,3-Butadiene	ND	0.020	0.011	ND	0.044	0.024		1
Bromomethane	ND	0.020	0.009	ND	0.078	0.037		1
Chloroethane	ND	0.100	0.040	ND	0.264	0.104		1
Acrolein	ND	0.050	0.039	ND	0.115	0.089		1
Acetone	ND	1.00	0.539	ND	2.38	1.28		1
Trichlorofluoromethane	ND	0.050	0.009	ND	0.281	0.052		1
Acrylonitrile	ND	0.500	0.162	ND	1.09	0.352		1
1,1-Dichloroethene	ND	0.020	0.008	ND	0.079	0.031		1
Methylene chloride	ND	0.500	0.110	ND	1.74	0.382		1
Freon-113	ND	0.050	0.008	ND	0.383	0.064		1
trans-1,2-Dichloroethene	ND	0.020	0.009	ND	0.079	0.036		1
1,1-Dichloroethane	ND	0.020	0.009	ND	0.081	0.035		1
Methyl tert butyl ether	ND	0.200	0.026	ND	0.721	0.094		1
2-Butanone	ND	0.500	0.132	ND	1.47	0.389		1
cis-1,2-Dichloroethene	ND	0.020	0.010	ND	0.079	0.040		1
Chloroform	ND	0.020	0.007	ND	0.098	0.035		1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.034		1
1,1,1-Trichloroethane	ND	0.020	0.006	ND	0.109	0.032		1
Benzene	ND	0.100	0.030	ND	0.319	0.095		1
Carbon tetrachloride	ND	0.020	0.011	ND	0.126	0.069		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2581464
Report Date: 01/05/26

Air Canister Certification Results

Lab ID: L2581464-01
Client ID: CAN 4242 SHELF 131
Sample Location:

Date Collected: 12/21/25 11:49
Date Received: 12/21/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	0.008	ND	0.092	0.038		1
Bromodichloromethane	ND	0.020	0.007	ND	0.134	0.050		1
1,4-Dioxane	ND	0.100	0.034	ND	0.360	0.124		1
Trichloroethene	ND	0.020	0.006	ND	0.107	0.032		1
cis-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.054		1
4-Methyl-2-pentanone	ND	0.500	0.191	ND	2.05	0.783		1
trans-1,3-Dichloropropene	ND	0.020	0.012	ND	0.091	0.052		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.053		1
Toluene	ND	0.100	0.017	ND	0.377	0.063		1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068		1
1,2-Dibromoethane	ND	0.020	0.009	ND	0.154	0.070		1
Tetrachloroethene	ND	0.020	0.007	ND	0.136	0.050		1
1,1,1,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
Chlorobenzene	ND	0.100	0.026	ND	0.461	0.119		1
Ethylbenzene	ND	0.020	0.009	ND	0.087	0.037		1
p/m-Xylene	ND	0.040	0.018	ND	0.174	0.078		1
Bromoform	ND	0.020	0.011	ND	0.207	0.115		1
Styrene	ND	0.020	0.008	ND	0.085	0.034		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.046		1
o-Xylene	ND	0.020	0.009	ND	0.087	0.038		1
Isopropylbenzene	ND	0.200	0.030	ND	0.983	0.147		1
4-Ethyltoluene	ND	0.020	0.010	ND	0.098	0.049		1
1,3,5-Trimethybenzene	ND	0.020	0.010	ND	0.098	0.047		1
1,2,4-Trimethylbenzene	ND	0.020	0.008	ND	0.098	0.037		1
Benzyl chloride	ND	0.100	0.033	ND	0.518	0.172		1
1,3-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.046		1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.045		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2581464**Project Number:** CANISTER QC BAT**Report Date:** 01/05/26**Air Canister Certification Results**

Lab ID: L2581464-01

Date Collected: 12/21/25 11:49

Client ID: CAN 4242 SHELF 131

Date Received: 12/21/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	0.027	ND	1.10	0.146		1
p-Isopropyltoluene	ND	0.200	0.037	ND	1.10	0.201		1
1,2-Dichlorobenzene	ND	0.020	0.006	ND	0.120	0.037		1
n-Butylbenzene	ND	0.200	0.032	ND	1.10	0.175		1
1,2,4-Trichlorobenzene	ND	0.050	0.015	ND	0.371	0.108		1
Naphthalene	ND	0.050	0.021	ND	0.262	0.110		1
1,2,3-Trichlorobenzene	ND	0.050	0.022	ND	0.371	0.166		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	92		60-140



Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107

Report Date: 01/05/26

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2600107-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2600107-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2600107-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2600107-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2600107-05A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2600107-06A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2600107-07A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2600107-08A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2600107-09A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		CLEAN-FEE()
L2600107-10A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		CLEAN-FEE()

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: MIPC ASTON, PA
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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

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Data Qualifiers

estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: MIPC ASTON, PA
Project Number: 220240201/400/VSR2

Lab Number: L2600107
Report Date: 01/05/26

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1: Hg. **EPA 245.7:** Hg.

SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Langan
Address: 1818 Market St, Suite 3300
Philadelphia, PA 19103
Phone: 215-845-8946
Fax:

Email: agoldberg@langan.com

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Gasline Program MIPC Aston, PA

Project Location: Aston, PA

Project #: 220240201/400/VSR2

Project Manager: Adam Goldberg

Pace® Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: Time: 1 BD

Date Rec'd in Lab: 01/03/26

Report Information - Data Deliverables

☐ FAX

☐ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)

☐ Additional Deliverables:

Report to: (if different than Project Manager)

Pace® Job #: L2600107

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

PA Act 2

ANALYSIS

TO-15
TO-15 SIM / TO-15 LL
APH
Fixed Gases
Sulfides & Mercaptans by TO-15

Other Project Specific Requirements/Comments: ★ = NuTech 2703 devices were used instead of lab provided flow controllers
Project-Specific Target Compound List: ★ PADEP VI List

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 S	APH &	Fixed C	Sulfides &		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum													
00107-01	AA-1_20251231	12/31/25	23:52	23:52	-30.08	-9.59	AA	LM	6L	5780	02929	X							
-02	AA-2_20251231	12/31/25	23:58	22:56	-30.22	-4.94	AA	LM	6L	1576	03266	X							
-03	AA-3_20251231	1/1/26	01:02	01:02	-29.92	-7.80	AA	LM	6L	5624	03184	X							
-04	AA-4_20251231	1/1/26	00:05	00:05	-30.54	-16.98	AA	LM	6L	1565	02734	X							
-05	AA-1_20260101	1/2/26	00:00	00:00	-29.26	-8.10	AA	PM	6L	4968	★	X							
-06	AA-2_20260101	1/2/26	00:00	00:00	-29.32	-5.54	AA	PM	6L	624	★	X							
-07	AA-3_20260101	1/2/26	00:00	00:00	-29.42	-7.86	AA	PM	6L	2587	★	X							
-08	AA-4_20260101	1/2/26	00:00	00:00	-29.28	-7.06	AA	PM	6L	4931	★	X							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

Anthony Green

Anthony Green

1/2/26 1650
1/2/26 1735
1/2/26 1735
JAN 02 2026 0215

01/03/26 0300



Sample Delivery Group Summary

Pace Job Number : L2600107

Received : 02-JAN-2026

Reviewer : Christopher J Anderson

Account Name : Langan Engineering & Environmental

Project Number : 220240201/400/VSR2

Project Name : MIPC ASTON, PA

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/N/A			

Condition Information

1) All samples on COC received?	YES
2) Extra samples received?	NO
3) Are there any sample container discrepancies?	NO
4) Are there any discrepancies between COC & sample labels?	NO
5) Are samples in appropriate containers for requested analysis?	YES
6) Are samples properly preserved for requested analysis?	YES
7) Are samples within holding time for requested analysis?	YES
8) All sampling equipment returned?	YES

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NA