

C.T. MALE ASSOCIATES

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April 28, 2023
(Revised March 5, 2024)

Mr. Matthew Hubicki
Project Manager, Remedial Bureau C
NYSDEC, Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

Re: *Periodic Review Report and IC/EC Certification - January 30, 2022 to January 30, 2023*
 USAI Lighting Facility Brownfield Cleanup Program (BCP) Site
 1116/1126 River Road, Town of New Windsor, New York
 BCP Site ID: C336087; C.T. Male Project No.: 14.4337

Dear Mr. Hubicki:

On behalf of BDL LLC, C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture & Geology, D.P.C. (C.T. Male) presents this Periodic Review Report (PRR) for the USAI Lighting Facility (USAI Facility) BCP Site (the "Site") in New Windsor, New York. The PRR was prepared in accordance with NYSDEC-approved Site Management Plan (SMP) dated November 2016 and the NYSDEC's PRR General Guidance. This PRR covers monitoring and sampling activities from January 30, 2022 to January 30, 2023. It is noted, the PRR herein was subsequently revised in March 2024 to address NYSDEC/NYSDOH comments in a letter dated December 8, 2023.

Executive Summary

BDL, LLC entered into a Brownfield Cleanup Agreement with NYSDEC in December 2014 to remediate the 11.4-acre Site located at 1116/1126 River Road in the Town of New Windsor, Orange County. Soils and groundwater at the Site were impacted with petroleum products, based on former industrial uses, one of which was a Major Oil Storage Facility (MOSF) on the southern portion of the Site.

The remedy for the Site was based on Industrial/Commercial Use incorporating engineering and institutional controls consistent with Track 4 cleanup levels promulgated at 6 NYCRR 375-3.8(e)(4). The Site remedy consisted of localized excavation of grossly contaminated soils in conjunction with site development, placement of a Surface Cover System (asphalt, concrete or vegetated soil), installation of VI mitigation

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measures, and implementation of the SMP. The SMP was approved in November 2016 and the COC was issued in December 2016.

Residual petroleum contamination remains in on-site groundwater. Only four (4) exceedances of PAHs and low-level detections of SVOC (below standard/guidance) have been documented from 2018-2023. No exceedances VOCs have been documented from 2018-2023. A slight sheen was observed in the purged water of monitoring well MW-2. No sheen was observed in remaining wells sampled.

It is our opinion that laboratory and field data support the conclusion that a significant reduction in groundwater contamination has been achieved as a result of the remedial action as prior to the remedial action free-phase petroleum product and VOCs exceedances were documented in on-site wells. The Site is currently used for commercial/industrial purposes and groundwater is not currently used at the Site. Groundwater use restrictions are part of the measures used to be protective of human health and the environment.

No exceedances of AGVs for methylene chloride, PCE, and TCE have been documented in indoor air post remediation (2017 – 2023). Following comparison of sub-slab soil vapor and indoor ambient air concentrations in 2022 and 2023 to the values in the NYSDOH matrices, the “No further action” was the applicable response for PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride, methylene chloride, and vinyl chloride. Indoor air concentrations below applicable thresholds coupled with VI mitigation measures in good conditions are measures protective of human health and the environment.

Based on the information provided in this PRR, C.T. Male would like to petition the Department to:

- Reduce the sampling frequency for groundwater monitoring from annually to biennially (i.e., every other year) with the next sampling event in 2025, and
- Eliminate the requirement of VOC sampling in groundwater.

These requests are supported by the absence of VOC exceedances post-remediation. Furthermore, based on the trend analysis, generally SVOC concentrations appear to be decreasing post-remediation, with exception of MW-2. However, no exceedances in MW-2 have been reported since 2019. Only one (1) exceedance of an SVOC (Indeno [1,2,3-

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cd]pyrene) in March 2019 has been documented at this location (0.01 ug/L, standard 0.002 ug/L).

Based on the review of the compliance monitoring results, inclusive of groundwater, soil vapor and ambient air sampling, for this reporting period, the remedial program is effective at protecting human health and the environment.

Site Overview

BDL, LLC entered into a Brownfield Cleanup Agreement with NYSDEC in December 2014 to remediate a property identified in the Orange County Assessors' Office with Tax ID: 9-1-97.1. The 11.4-acre Site is located at 1116/1126 River Road in the Town of New Windsor, Orange County. The Site consists of those portions of the parcel that are above the mean high-water level of the Hudson River. A Site Location Map depicting the property boundaries presented in Attachment A, Figure 1.

The northern portion of the property, located at 1126 River Road, contains an active LED light manufacturing plant and warehouse/distribution facility. The building occupies approximately 2.5 acres with associated parking lot and roadways occupying approximately 6 acres. The southern portion of the property, located at 1116 River Road, contains a parking lot, grass-covered areas and a stormwater structure (pond). The Site is bounded by railroad tracks to the east, River Road to the west, a soil reclamation facility to the south and a MOSF to the north. The Hudson River is located further east of the Site. In addition, there is a small pond / wet area in the north-central portion of the Site that is hydrologically connected to the Hudson River and fluctuates with the tides.

Past Site uses include light assembly and manufacturing, distribution / warehousing and petroleum bulk storage. In 1913, the northern portion of the Site was used as a brick works and manufacturer of rail equipment. In 1957, the northern portion of the Site became part of the Mastic Tile Corporation, and the southern part of the Site became the Affron MOSF (NYSDEC MOSF No. 3-1380). By the late 1960s, the northern portion of the Site was occupied by Ruberoid Floor Tile Division. The southern portion of the Site continued to operate as a MOSF until the mid-1990s, at which time it had seven (7) bulk fuel oil storage tanks.

Evidence of impacts to soil, sediment, surface water, groundwater, soil gas and indoor air were identified across the entire Site. Two (2) spills were reported on the Site:

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1. Spill No. 9903745 was opened on April 30, 1999, in relation to the removal and remediation of two (2) 1,000-gallon underground storage tanks formerly situated on the southern portion of the Site. These were used for storage of fuel oil and diesel. Approximately 133 tons of soil was removed, and the spill was subsequently closed on December 10, 2009.
2. Spill No. 0913553 was opened on March 23, 2010 for the purpose of investigating groundwater conditions across the Site. The results of a groundwater investigation revealed petroleum contamination in soils and groundwater above applicable standards. Additionally, free-phase petroleum product was documented in monitoring wells in the northern and southern portions of the Site. This spill was subsequently closed on September 1, 2016, following the completion of remedial activities.

The remedy for the Site was based on Industrial/Commercial Use incorporating engineering and institutional controls consistent with Track 4 cleanup levels promulgated at 6 NYCRR 375-3.8(e)(4). As detailed in the December 2016 FER, the Site remedy consisted of localized excavation of grossly contaminated soils in conjunction with site development, placement of a Surface Cover System (asphalt, concrete or vegetated soil), installation of VI mitigation measures, and implementation of the SMP. The SMP was approved in November 2016 and the COC was issued in December 2016.

At the time the COC was issued and with the Department's approval, various elements of the VI mitigation measures at the USAI Facility were still in progress, as allowed by NYSDEC. These elements included:

- Installation of a passive sub-slab depressurization system (SSDS) in Area 8; and,
- Installation of a vapor barrier and new concrete slab, elements of the passive SSDS, in Areas 4 and 7.

A passive SSDS was installed in Area 8 in accordance with the FER in March 2018. Renovation work in Area 8 commenced in December 2021 and was finalized in the Summer of 2022. Modifications to the passive SSDS were documented by C.T. Male in several site visits and are presented in this PRR (See Section "Operation & Maintenance Plan Compliance Report"). Area 8 was re-occupied by office workers in July 2022 with a passive SSDS in general conformance with the FER and SMP.

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The remaining portions of the slab and vapor barrier in Area 4 were completed by the Fall of 2021. Corrective measures to finalize the concrete slab and vapor barrier and modify the passive SSDS in this area were documented in C.T. Male's Corrective Measures Work Plan Implementation Letter, dated October 2021. Renovation work in Area 4 commenced in Summer 2021 and was finalized in the December of 2021. Area 8 was re-occupied by office workers in early 2022 with a passive SSDS in general conformance with the FER and SMP.

Renovation plans for Area 7 were modified in 2019 and 2020. On December 19, 2019, C.T. Male petitioned NYSDEC on behalf of the client to waive the requirement for an SSDS in Area 7 as this area is anticipated to be open to the atmosphere with no renovation work to be conducted at this time.

As of the date of this Letter, the interior renovation work at the USAI Facility is complete.

Evaluate Remedy Performance, Effectiveness and Protectiveness

The Site remedy consisted of localized excavation of grossly contaminated soils in conjunction with site development, placement of a Surface Cover System (asphalt, concrete or vegetated soil), installation of VI mitigation measures, and implementation of the SMP. Based on the information contained in this PRR, the following assessment of the remedy is provided:

- Grossly contaminated soils as well as soils above commercial SCOs were removed from the Site, eliminating, to the extent practical, the source of petroleum contamination. This action limits the potential for Site users to become in contact with contaminated soils as these have been removed.
- The Surface Cover System employed at the Site prevents Site users to become in contact with potentially contaminated soils. The Surface Cover System (asphalt, concrete or vegetated soil) remains in good condition and is protective of human health and the environment. See Section "Operation & Maintenance Plan Compliance Report".
- The VI mitigation measures present at the Site prevent the migration of potentially contaminated soil vapors into the building interior through the use of barriers

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and/or venting systems (passive SSDS). The VI mitigation measures remain in good condition, and therefore continue to mitigate potential impacts to the public health. See Section “Operation & Maintenance Plan Compliance Report”.

- Residual petroleum contamination remains in on-site groundwater. Only four (4) exceedances of PAHs and low-level detections of SVOC (below standard/guidance) have been documented from 2018-2023. No exceedances VOCs have been documented from 2018-2023. A slight sheen was observed in the purged water of monitoring well MW-2. No sheen was observed in remaining wells sampled.

It is our opinion that laboratory and field data support the conclusion that a significant reduction in groundwater contamination has been achieved as a result of the remedial action as prior to the remedial action free-phase petroleum product and VOCs exceedances were documented in on-site wells. The Site is currently used for commercial/industrial purposes and groundwater is not currently used at the Site. Groundwater use restrictions are part of the measures used to be protective of human health and the environment.

- No exceedances of AGVs for methylene chloride, PCE, and TCE have been documented in indoor air post remediation (2017 – 2023). Following comparison of sub-slab soil vapor and indoor ambient air concentrations in 2022 and 2023 to the values in the NYSDOH matrices, the “No further action” was the applicable response for PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride, methylene chloride, and vinyl chloride. See Section “Monitoring Plan Compliance Report”. Indoor air concentrations below applicable thresholds coupled with VI mitigation measures in good conditions are measures protective of human health and the environment.

IC/EC Plan Compliance Report

The Institutional Controls (ICs) for the USAI Facility are summarized as follows:

1. Track 4 Commercial and Industrial Uses are allowed. The Controlled property may not be used for a higher use and the engineering controls may not be extinguished without NYSDEC approval.

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2. All future soil disturbance activities below 1 foot cover and new construction are conducted in accordance with the approved SMP, and Excavation Work Plan.
3. The use of the groundwater underlying the Site is prohibited without treatment as determined by the NYSDOH or Orange County DOH.
4. An evaluation of the potential for soil vapor intrusion for any buildings developed or reoccupied on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion.
5. A certification, every year, must be made to the NYSDEC indicating that the requirements of the SMP have been met and denote areas where deficiencies have occurred, if any.

The Engineering Controls (ECs) for the USAI Facility are summarized as follows:

1. A passive vapor mitigation system will be operated, maintained, monitored as required by the approved SMP.
2. A site cover system, of at least 1 foot, will be maintained as required by the approved SMP.
3. Any soil underlying within the Controlled Property, must remain covered with a NYSDEC-approved barrier layer which must be inspected, certified and maintained as required in the NYSDEC-approved SMP.
4. Periodic monitoring of groundwater from downgradient wells.

The ICs and ECs remain applicable and are required for the Site. Deficiencies in the ECs for the Site were not identified during this reporting period. A completed IC/EC Certification Form is provided as Attachment B.

Monitoring Plan Compliance Report

Monitoring requirements consist of on annual site-wide inspections and post-remediation media monitoring. The site-wide inspection documents the integrity of the Surface Cover System and the VI mitigation measures. Two (2) site-wide inspections were conducted on December 16, 2022 and March 30, 2023 in accordance with the SMP.

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The observations and finding of the annual site-wide inspections are presented in the “Operation & Maintenance Plan Compliance Report” section (below) of this PRR.

The post remediation media monitoring consists of groundwater and soil vapor/air sampling and laboratory analysis. Post-remediation media monitoring was performed in accordance with the SMP and is described below.

2023 Groundwater Sampling and Analytical Results

Four (4) monitoring wells, MW-1, MW-2, MW-3R and MW-4R, are sampled annually under the SMP. These wells were sampled on January 13, 2023. MW-1, MW-2 and MW-3R are situated from south to north, respectively, along the southeastern border of the Site. MW-4R is situated immediately south of and adjacent to Area 6A (stock room) of the building. A monitoring well location maps is presented in Attachment A, Figure 2.

Prior to sampling at least one purge volume of water (three times the static well volume) was removed, using dedicated plastic tubing and a peristaltic pump, before groundwater samples were collected. Petroleum-type and a slight sheen were noted in the purged water from monitoring well MW-02. No evidence of contamination was noted in remaining wells. Photoionization Detector (PID) readings were not documented above ambient background levels (0.0 parts per million) in the head space of the well sampled.

Laboratory results for all compounds detected in water are compared to NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values (AWQS), provided in Technical and Operational Guidance Series 1.1.1. Groundwater samples were analyzed for volatile organic compounds (VOCs) using USEPA Method 8260, and semi-volatile organic compounds (SVOCs) using USEPA Method 8270 by Alpha Analytical, Inc. (Alpha), a NYS ELAP certified laboratory (Lab ID: 11148).

VOCs

No exceedances of VOCs were detected during this reporting period. Non-detect results were reported for two (2) VOC compounds, 1,2-Dibromo-3-chloropropane and 1,2-Dibromoethane, for which the method detection limit (MDL) was above the NYSDEC's guidance levels. Remaining results were non-detect.

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SVOCs

One (1) exceedance of Benzo(a)anthracene (0.02 ug/L, guidance level 0.002 ug/L) and one (1) exceedance of Benzo(b)fluoranthene (0.02 ug/L, guidance level 0.002 ug/L) were detected in monitoring well MW-03R. No other exceedances were reported. Five (5) SVOCs were detected below their respective NYSDEC AWQS guidance levels in monitoring wells MW-2, MW-03R, and MW-04R. One (1) VOC (Dibenzofuran, 1.6 ug/L) was detected in monitoring well MW-2 with a guidance level not established (NE). Remaining results were non-detect.

Non-detect results were reported for eight (8) SVOCs for which the MDL was above the NYSDEC's guidance levels. Remaining results were non-detect.

The analytical results summary table and analytical reports for the samples collected in 2023 are presented in Attachments C and D, respectively.

Groundwater Data Trend Analysis

A trend analysis of total VOCs and total SVOCs was performed utilizing the post-remediation groundwater data available to date (2018 – 2023). Trends are depicted in graphical form and are presented in Attachment E. The following observations are provided based on the trend analysis:

- MW-1: Reported concentrations of total VOCs (ranging from 5.8 ug/L to non-detect) and total SVOCs (ranging from 0.45 ug/L to non-detect) have decreased over time. No exceedances of VOCs or SVOCs have been documented at this location post-remediation.
- MW-2: Reported concentrations of total VOCs (ranging from 7.7 ug/L to non-detect) have decreased over time while reported concentrations of total SVOCs (ranging from 0.16 ug/L to 10.03 ug/L) have increased. No exceedances of VOCs have been documented at this location post-remediation. Only one (1) exceedance of an SVOC (Indeno [1,2,3-cd]pyrene) in March 2019 has been documented at this location (0.01 ug/L, standard 0.002 ug/L). No other exceedances of SVOCs have been documented at this location post-remediation.

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- MW-3R: Reported concentrations of total VOCs (ranging from 8.56 ug/L to non-detect) and total SVOCs (ranging from 24.55 ug/L to 0.34 ug/L) have decreased over time. No exceedances of VOCs have been documented at this location post-remediation. Only two (2) exceedances of SVOCs (Benzo[a]anthracene and Benzo[b]fluoranthene) in January 2023 have been documented at this location (0.02 ug/L for both compounds, standard 0.002 ug/L for both compounds). No other exceedances of SVOCs have been documented at this location post-remediation.
- MW-4R: Reported concentrations of total VOCs (ranging from 7.5 ug/L to non-detect) and total SVOCs (ranging from 0.16 ug/L to non-detect) have generally decreased over time. No exceedances of VOCs have been documented at this location post-remediation. Only one (1) exceedance of an SVOC (Benzo[a]pyrene) in February 2020 has been documented at this location (0.06 ug/L, guidance non-detect). No other exceedances of SVOCs have been documented at this location post-remediation.

Only detected VOCs and SVOCs concentrations were included in the trend analysis for groundwater. Tentatively identified compounds (TICs) information was not reported in the groundwater laboratory results and therefore it was not included in the trend analysis.

Residual petroleum contamination remains in on-site groundwater. Only four (4) exceedances of PAHs and low-level detections of SVOC (below standard/guidance) have been documented from 2018-2023. No exceedances VOCs have been documented from 2018-2023. A slight sheen was observed in the purged water of monitoring well MW-2. No sheen was observed in remaining wells sampled.

It is our opinion that laboratory and field data support the conclusion that a significant reduction in groundwater contamination has been achieved as a result of the remedial action as prior to the remedial action free-phase petroleum product and VOCs exceedances were documented in on-site wells. The Site is currently used for commercial/industrial purposes and groundwater is not currently used at the Site. Groundwater use restrictions are part of the measures used to be protective of human health and the environment.

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2023 Soil Vapor and Air Quality Sampling and Analytical Results

Four (4) sub-slab soil vapor sampling points, VI-1 to VI-4, are to be sampled under the SMP. Sampling has been conducted annually during the heating season. Sub-slab soil vapor sampling point VI-5 was installed in 2018 to assess VI in the 2-story building (Area 8). Five (5) sub-slab soil vapor (VI-1 to VI-5), four (4) concurrent indoor air (IA-1 to IA-4), and one (1) outdoor ambient air (OA-1) samples were collected throughout or adjacent to the USAI Facility on January 12, 2023. A map depicting sampling locations is presented in Attachment A, Figure 3.

Soil vapor and indoor air samples are denoted with prefixes “VI” and “IA”, respectively. Outdoor air analytical results serve as background concentrations and are denoted with prefixes “OA”. A table indicating soil vapor samples and concurrent indoor air samples per area and area use is presented below.

Table A: Soil Vapor/Air Sample Locations

Area/Designation (per map)	Soil Vapor Sample ID	Indoor Air (IA) Sample ID	Area Use	Comments
Area 2	VI-3	IA-3	Offices	
Area 3A	VI-1 VI-2	IA-2	Production/ Assembly Area	
Area 4	VI-4	IA-1	Offices and Storage Space	Renovation Area. Vapor Pin® Installed.
Area 8	VI-5	IA-4	Offices	Renovation Area. Vapor Pin® Installed.

A Soil Vapor Intrusion – Structure Sampling Building Questionnaire was completed for the sampling event to identify Site conditions, chemical products present and other factors at the Site that may interfere with the sampling. A copy of building questionnaire is included in Attachment F.

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Sub-slab vapor ports in Area 4 (VI-4) and Area 8 (VI-5) were replaced in 2022 as these were removed during the renovation work. The construction of the sub-slab vapor ports was performed in accordance with the Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) with updates (SVI Guidance) and Standard Operating Procedure Installation and Extraction of the FLX-VPTM VAPOR PIN® Sampling Device.

The location of the 2022 installed soil vapor sampling ports was determined based on previously installed sampling port locations removed during renovation activities.

Samples were collected in accordance with sampling procedures outlined in the SVI Guidance. Sample intakes for the soil vapor sampling ports were installed at a maximum depth of two (2) inches below the invert of the floor slab of the building. Non-reactive high-density polyethylene (HDPE) sample tubing was attached to the vapor pin probe and vapor sampling ports throughout the facility, the tubing and sample enclosure were sealed with clay to prevent mixing of ambient air and soil vapor, and subsequently attached to an 8-hour flow regulator and a 6-liter laboratory certified Summa® canister for sample collection. Helium tracer gas was used for leak testing the enclosure at each sub-slab sampling location to ensure that ambient air was not infiltrating. Helium concentrations were analyzed in the field using Radio Detection MGD-2002 Helium Leak Detector. No tracer gas was detected in the tubing of the vapor probes in the 2023 sampling event thereby documenting adequate seal. Prior to the commencement of sampling, two (2) to three (3) volumes of air were purged from the sampling apparatus. Sample logs are provided as Attachment G. The samples were analyzed for total VOCs per EPA Method TO-15 by Alpha.

Following the 8-hour sample collection period, it was noted that the seal of the bucket/enclosure for sub-slab sampling location VI-1 was broken as the bucket/enclosure was slightly moved from its original location. The sample canister and tubing did not appear to be affected as a result of this incidental movement. It is our opinion that a broken bucket/enclosure seal mainly impacts the ability to perform NYSDOH recommended sample tubing leak check with the tracer gas. Even without the leak check, the sample collection method is still considered acceptable because the visual check of the sample tubing/seal at the floor penetration was unaffected. Furthermore, upon review of the January 12, 2023 data for VI-1, it was determined that these results are consistent with historical data at this location and therefore unaffected by incidental movement of the bucket/enclosure.

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Air guideline values (AGVs) have been established in the New York State Department of Health's (NYSDOH's) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (GESVI, October 2006) and subsequent guidance memoranda for methylene chloride (60 µg/m³), perchloroethylene (PCE) (30 µg/m³) and trichloroethylene (TCE) (2 µg/m³). No other AGVs have been established by NYSDOH for VOCs.

Decision matrices utilizing indoor and soil vapor concentrations were developed to evaluate the potential for soil vapor intrusion for eight (8) compounds. These compounds are carbon tetrachloride, 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), methylene chloride, tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), and vinyl chloride. No decision matrices have been developed for petroleum-compounds.

No exceedances of AGVs for methylene chloride, PCE, and TCE were documented in indoor air in 2023. Following comparison of sub-slab soil vapor and indoor ambient air concentrations in 2023 to the values in the NYSDOH matrices, the "No further action" was the applicable response for PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride, methylene chloride, and vinyl chloride.

Elevated concentrations of Ethanol (peak of 2,200 µg/m³ at IA-1) and Isopropanol (peak of 225 µg/m³ at IA-2) were detected in the indoor air throughout the facility. The relative elevated concentrations of indoor air when compared to soil vapor concentrations are likely indicative of an on-site indoor air source and not the result of sub-slab vapor migration into the USAI Facility. Indoor air concentrations of Ethanol and Isopropanol are consistent with previous sampling events and likely the results manufacturing activities at the facility.

The analytical results summary table and analytical reports for the samples collected in 2023 are presented in Attachments C and D, respectively.

Soil Vapor and Ambient Air Data Trend Analysis

A trend analysis for chlorinated solvents was performed utilizing the post-remediation soil vapor, indoor and outdoor air data available to date (2018 – 2023). Trends are depicted in graphical form and are presented in Attachment E. The following observations are provided based on the trend analysis:

- Outdoor Area:

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- OA-1: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly.
- Area 2 - Office space in the Production Area, in the western-central portion of the building:
 - VI-3: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly, with exception of 1,1,1-TCA and PCE. 1,1,1-TCA (ranging from 328 ug/m³ to 32.4 ug/m³) and PCE (ranging from 868 ug/m³ to 260 ug/m³) concentrations have decreased over time.
 - IA-3: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly.
 - Comparison of chlorinated solvents concentrations in soil vapor and indoor air utilizing the applicable NYSDOH matrix triggered “No further action” in the January 2023 sampling event.
 - Historically, in March and April 2019 comparison of cis-1,2-DCE concentrations in soil vapor and indoor air utilizing the applicable NYSDOH matrix triggered the “Identify source(s) and resample or mitigate”. Upon removal of potential indoor air sources, no concentrations triggering actions above “No further action” when compared to the applicable NYSDOH matrix were reported in June 2019 and February 2020, and subsequent sampling events (2022 and 2023). Furthermore, a review of the soil vapor data for VI-3 indicates that cis-1,2-DCE is not present at levels indicative of a soil vapor source beneath the building slab. This event was further discussed in the 2020-2021 PRR.
- Area 3A - Production Area in the central portion of the building:
 - VI-1: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly, with exception of TCE and 1,1,1-TCA. TCE concentrations (ranging from 2.09 ug/m³ to 19.2 ug/m³) have increased over time. 1,1,1-TCA concentrations (ranging from 22.8 ug/m³ to 4.03 ug/m³) have decreased over time.

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- VI-2: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly, with exception of PCE and methylene chloride. Methylene chloride concentrations (ranging from non-detect to 4.65 ug/m³) have increased over time. PCE concentrations have decreased over time (ranging from 4.38 ug/m³ to 1.28 ug/m³).
 - IA-2: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly.
 - Comparison of chlorinated solvents concentrations in soil vapor and indoor air utilizing the applicable NYSDOH matrix triggered “No further action” in the January 2023 sampling event.
- Area 4 (Office and storage area, located in the southernmost portion of the facility):
 - No samples were collected in Area 4 in 2019 and 2020 at the discretion of the Department as the Department indicated that samples should not be collected while the portion of the slab remained open. Samples were collected in March 2022 and January 2023 following the installation of the concrete slab and completion of the renovation work.
 - VI-4: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly with exception of PCE. PCE concentrations (ranging from non-detect to 3.66 ug/m³) have increased over time.
 - IA-1: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly.
 - Comparison of chlorinated solvents concentrations in soil vapor and indoor air utilizing the applicable NYSDOH matrix triggered “No further action” in the January 2023 sampling event.

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- Area 8 (2-story office building, located in the southernmost portion of the facility):
 - No samples were collected in Area 8 in 2022 as the area was undergoing renovation. Samples were collected in January 2023.
 - VI-5: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly, with exception of PCE and TCE. PCE (ranging from 3.1 ug/m³ to non-detect ug/m³) and TCE concentrations (ranging from 3.94 ug/m³ to non-detect ug/m³) have decreased over time.
 - IA-4: Generally, reported concentrations of chlorinated VOCs have not fluctuated significantly.
 - Comparison of chlorinated solvents concentrations in soil vapor and indoor air utilizing the applicable NYSDOH matrix triggered “No further action” in previous sampling events.

No exceedances of AGVs for methylene chloride, PCE, and TCE have been documented in indoor air post remediation (2017 – 2023). Following comparison of sub-slab soil vapor and indoor ambient air concentrations in 2022 and 2023 to the values in the NYSDOH matrices, the “No further action” was the applicable response for PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride, methylene chloride, and vinyl chloride. Indoor air concentrations below applicable thresholds coupled with VI mitigation measures in good conditions are measures protective of human health and the environment.

The Department and NYSDOH requires continued annual sub-slab and indoor air monitoring in the on-site building. The next annual sub-slab and indoor air monitoring event is anticipated in February 2024.

Operation & Maintenance Plan Compliance Report

The operation and maintenance (O&M) plan for the Surface Cover System consist of the maintenance and periodic inspections. The Surface Cover System is comprised of the following: 12 inches of clean soil (south side of Site), existing soil (north side of the Site), asphalt pavement, concrete covered, sidewalks, and/or concrete building slabs. The

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integrity of the concrete building slab was also assessed to determine the condition of the VI mitigation measures pertaining to the slab (i.e., sealing of cracks, etc.).

Observations of the Surface Cover System were conducted on December 16, 2022 and March 30, 2023. No deficiencies related to the Surface Cover System were identified. The Site Management Inspection Form is included in Attachment H.

There is no O&M plan for the passive SSDS given the nature of a passive system (i.e., no mechanical components). However, a Vapor Intrusion Mitigation Measures Assessment Form was completed for the entire on-site building and is included as Attachment H. No deficiencies in the VI mitigation measures were identified.

Renovation Work in Area 8 (2-story office building)

Renovation work in Area 8 commenced in December 2021 and was finalized in the Summer of 2022. Area 8 was the main office space for the USAI facility prior to the renovation work and will continue to be used as the main office space post renovation. The passive SSDS in this area (installed in 2018) was modified to accommodate the modified internal configuration of Area 8. C.T. Male provided oversight of the SSDS modifications through periodic site visits and review of contractor drawings. Site visits were performed on:

- February 7, 2022 – Field identification of suction points area and pipe routing location prior to construction. Review of plans between iSER Consulting (construction management firm) & C.T. Male.
- February 10, 2022 – Observation of construction of suction points and piping.
- March 21, 2022 – Oversight of limited excavation performed by contractor for entrance footings. Community Air Monitoring Plan (CAMP) implemented.
- April 28, 2022 – Installation of sub-slab monitoring points (Vapor Pin®) by Core Down Drilling under the oversight of C.T. Male.

The SSDS was modified as follows:

- Relocation of three (3) suction points (SPs) in the general vicinity of the three (3) former SPs (within 5-10 feet).
- Relocation of the discharge point at the roof level.

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Pipe diameters and materials remained consistent with the previous SSDS configuration (2" and 3" diameter Schedule 40 PVC piping). A schematic drawing of the modified SSDS in Area 8 is provided as Attachment I. Photographs of the renovation work, inclusive of the SSDS modification and limited excavation, is provided in Attachment J. In addition to the modification to the SSDS, replacement sub-slab monitoring points were installed in 2022 for Area 8 and Area 4.

Limited excavation was performed near the exterior of the southwestern portion of the facility to install footings for a new awning for the main entrance. The dimension of the two (2) limited excavation areas was approximately 3 feet by 7 feet by 2.5 feet (depth). The excavated material (2-5 cubic yards) remains on-site awaiting off-site disposal and/or reintroduction under the cover system. The small stockpile of generated material is underlaid and covered with plastic. Dust monitoring data generated during the implementation of the CAMP on March 21, 2023 is presented as Attachment J. Following renovation activities, Area 8 was re-occupied by office workers in July 2022 with a passive SSDS in general conformance with the FER and SMP.

Overall PRR Conclusions and Recommendations

The following conclusions and recommendations relative to compliance with the SMP are provided:

1. Groundwater Use Restriction: Requirements were met during the reporting period.
2. Land Use Restriction: Requirements were met during the reporting period.
3. Site Management Plan: Requirements were met during the reporting period.
4. Monitoring Plan: Requirements were met during the reporting period. Monitoring of VI shall continue on an annual basis, with the next VI sampling event early in the 2024 heating season.

C.T. Male would like to petition the Department to reduce the sampling frequency for groundwater monitoring from annually to biennially (i.e., every other year) with the next sampling event in 2025. In addition, we would like to petition the Department to eliminate the requirement of VOC sampling as no exceedances of VOCs have been reported post-remediation. Based on the trend analysis,

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generally SVOC concentrations appear to be decreasing post-remediation, with exception of MW-2. However, no exceedances in MW-2 have been reported since 2019. Only one (1) exceedance of an SVOC (Indeno [1,2,3-cd]pyrene) in March 2019 has been documented at this location (0.01 ug/L, standard 0.002 ug/L).

5. IC/EC Plan: Requirements were met during the reporting period.
6. Surface Cover System: Requirements were met during the reporting period. Any future disturbance shall be implemented in accordance with the SMP.
7. VI Mitigation Measures: Requirements were met during the reporting period.
8. Based on C.T. Male's evaluation of the components of the SMP, the remedy is achieving the remedial objectives for the Site.
9. The frequency of the submittal of the PRR should not be changed at this time.
10. Site management shall be continued.

Green Remediation Evaluation

According to Section 6.2 of the SMP, green remediation evaluations completed during site management shall be reported in the PRR. Included as Attachments H is the completed "Summary of Green Remediation Metrics for Site Management" form.

Certifications

For each institutional or engineering control identified for the Site, I certify, to the best of my knowledge, that the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering controls employed at this Site are unchanged from the date the control was put in place, or last approved by the Department;

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- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

A completed IC/EC Inspection Form is included in this Report as Attachments B.

To the best of my knowledge, I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Rosaura Andújar-McNeil, of C.T. Male Associates at 12 Raymond Avenue, Poughkeepsie, New York, 12603 am certifying on behalf of BDL, LLC, the Owner/Remedial Party for the Site.

Sincerely,

C.T. MALE ASSOCIATES

A handwritten signature in cursive script, reading "Rosaura Andújar-McNeil".

Rosaura Andújar-McNeil, P.E.
Project Environmental Engineer

C.T. MALE ASSOCIATES

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Attachments:

Attachment A:	Figures
Attachment B:	NYSDEC EC/IC Certification Form
Attachment C:	Tables – 2023 and Historical Data
Attachment D:	2023 Laboratory Results
Attachment E:	Trend Analyses
Attachment F:	SVI – Structure Sampling Building Questionnaire
Attachment G:	Soil Vapor/ Air Sampling Logs
Attachment H:	Forms (Revised March 2024)
Attachment I:	SSDS Schematic – Area 8
Attachment J:	Renovation Documentation

ec: Frank DiLauro, USAI
Mike Griffin, USAI
Kevin Goggin, iSER Consulting
Sue Sullivan, iSER Consulting
Sara Bogardus, NYSDOH
James D. McIver, P.G., C.T. Male

C.T. MALE ASSOCIATES

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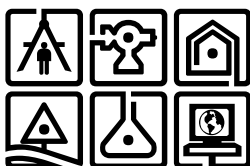
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Attachment A: Figures



MAP REFERENCE

Orange County Parcel Access
Date accessed: 2/4/2021



C.T. MALE ASSOCIATES

ENGINEERING, SURVEYING, ARCHITECTURE
LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 1 - SITE LOCATION MAP

**USAI LIGHTING FACILITY
1126 RIVER ROAD**

TOWN OF NEW WINDSOR

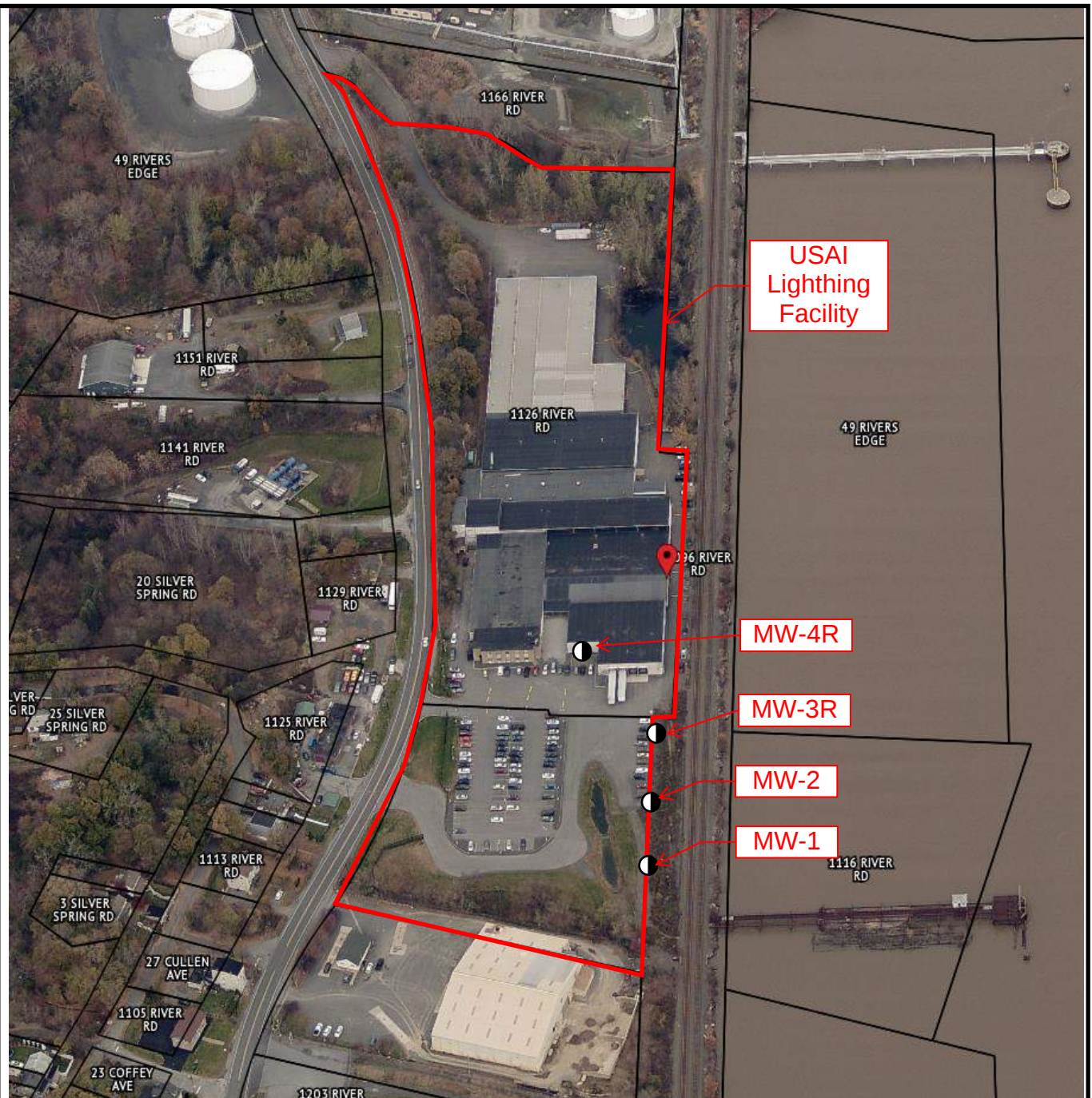
ORANGE COUNTY, NY

SCALE: NTS

DRAFTER: RAM

PROJECT No: 14.4337

The locations and features depicted on this map are approximate and do not represent an actual survey.

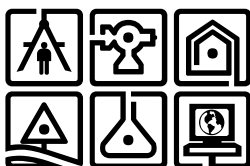


MAP REFERENCE

Orange County Parcel Access
Date accessed: 2/4/2021

Legend:

● Monitoring Wells Sampled as Per SMP



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ENGINEERING, SURVEYING, ARCHITECTURE
LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 2 - MONITORING WELLS LOCATION MAP

USAI LIGHTING FACILITY
1126 RIVER ROAD

TOWN OF NEW WINDSOR

ORANGE COUNTY, NY

SCALE: NTS

DRAFTER: RAM

PROJECT No: 14.4337

The locations and features depicted on this map are approximate and do not represent an actual survey.

CAD DWG. FILE NAME: K:\Projects\144337\Env\Drawings and Maps\VI Perm Sampling Map.dwg

CAD DWG. FILE NAME: VI Perm Sampling M



Area 7 - Area to remain open to the atmosphere. See letter to NYSDEC dated December 24, 2019 requesting forgoing the installation of remaining SSDS components.



NOTE: VI MITIGATION MEASURES FOR ALL AREAS DEPICTED IN RECORD DRAWING "BUILDING VAPOR MITIGATION INTRUSION MEASURES", WM-1 BY FELLENER ENGINEERING (DATED 11/23/16, REVISED 12/2/2016) AND CONSTRUCTION COMPLETION REPORT FOR SSDS IN 2-STORY OFFICE BUILDING BY C.T. MALE (DATED MARCH 29, 2018).

NOTE:
THE LOCATIONS AND FEATURES DEPICTED IN THIS MAP ARE APPROXIMATE AND DO NOT REPRESENT AN ACTUAL FIELD SURVEY BY C.T. MALE.

MAP REFERENCE:
BUILDING FLOOR PLAN PROVIDED BY FELLENER ENGINEERING LLP OF MIDDLETOWN, NY.

DATE	REVISIONS RECORD/DESCRIPTION		DRAFTED	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW. © 2017 C.T. MALE ASSOCIATES
3/29/19	1	Sampling locations modified	RAM			
4/13/20	2	SSDS loc. and other areas/shading	RAM			
1/27/21	3	ECs deficiencies per 1/25/2021 visit	RAM			
	4					
	5					DESIGNED :
	6					DRAFTED : J.MARX
	7					CHECKED : J.MCIVER
	8					PROJ. NO : 14.4337
	9					SCALE : NOT TO SCALE
						DATE : MAY 2, 2017

REVISED VAPOR INTRUSION SAMPLING LOCATIONS

USAI LIGHTING FACILITY
1126 RIVER ROAD

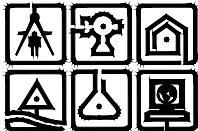
TOWN OF NEW WINDSOR

ORANGE COUNTY, NEW YORK

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299



SHEET 1 OF 1

DWG. NO: 17-288

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

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Attachment B: NYSDEC EC/IC Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No.	C336087	Site Details	Box 1
Site Name USAI Lighting Facility			
Site Address: 1126 RIVER ROAD		Zip Code: 12553	
City/Town: New Windsor			
County: Orange			
Site Acreage: 11.400			
Reporting Period: January 30, 2022 to January 30, 2023			
			YES NO
1. Is the information above correct?			☒ ☐
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?			☐ ☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?			☐ ☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?			☒ ☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?			☐ ☒

			Box 2
			YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial			☒ ☐
7. Are all ICs in place and functioning as designed?			☒ ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

		Box 2A	
		YES	NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.			
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.			
SITE NO. C336087		Box 3	
Description of Institutional Controls			

Parcel**9-1-96.1**Owner

BDL, LLC

Institutional Control

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The institutional controls present at the Controlled Property (USAI Lighting Facility BCP C336087 Site) are as follows:

1. Track 4 Commercial and Industrial Uses are allowed. The Controlled property may not be used for a higher use, such as unrestricted or restricted residential use, and the engineering controls may not be extinguished without NYSDEC approval, and amending or discontinuing the approved 2016 Site Management Plan (SMP) and the 2016 environmental easement.
2. All future soil disturbance activities below 1 foot cover, including building renovation/expansion, subgrade utility line repair/relocation, and new construction are conducted in accordance with the approved SMP, and Excavation Work Plan.
3. The use of the groundwater underlying the Site is prohibited without treatment rendering it safe for potable or process use, without necessary water quality treatment as determined by the NYSDOH or Orange County DOH.
4. An evaluation of the potential for soil vapor intrusion for any buildings developed or reoccupied on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion.
5. A certification, every year, must be made to the NYSDEC indicating that the requirements of the SMP have been met and denote areas where deficiencies have occurred, if any. A Site Management Report, including any required inspection or sampling documentation and certifications, shall be submitted by the Owner to NYSDEC by April 22nd following the calendar reporting years, along with the Certification, signed and certified by the Owner, and certifying that the engineering controls (e.g., passive SSDS, site cover) are in place and functioning correctly, or noting any deficiencies and including a corrective action plan for these deficiencies to be corrected. The Owner will also certify that NYSDEC is allowed access to the Site to inspect the engineering controls.

9-1-97

BDL, LLC

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

The institutional controls present at the Controlled Property (USAI Lighting Facility BCP C336087 Site) are as follows:

1. Track 4 Commercial and Industrial Uses are allowed. The Controlled property may not be used for a higher use, such as unrestricted or restricted residential use, and the engineering controls may not be extinguished without NYSDEC approval, and amending or discontinuing the approved 2016 Site Management Plan (SMP) and the 2016 environmental easement.
2. All future soil disturbance activities below 1 foot cover, including building renovation/expansion, subgrade utility line repair/relocation, and new construction are conducted in accordance with the approved SMP, and Excavation Work Plan.
3. The use of the groundwater underlying the Site is prohibited without treatment rendering it safe for potable or process use, without necessary water quality treatment as determined by the NYSDOH or

4. An evaluation of the potential for soil vapor intrusion for any buildings developed or reoccupied on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion.

5. A certification, every year, must be made to the NYSDEC indicating that the requirements of the SMP have been met and denote areas where deficiencies have occurred, if any. A Site Management Report, including any required inspection or sampling documentation and certifications, shall be submitted by the Owner to NYSDEC by April 22nd following the calendar reporting years, along with the Certification, signed and certified by the Owner, and certifying that the engineering controls (e.g., passive SSDS, site cover) are in place and functioning correctly, or noting any deficiencies and including a corrective action plan for these deficiencies to be corrected. The Owner will also certify that NYSDEC is allowed access to the Site to inspect the engineering controls.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

9-1-96.1

Vapor Mitigation
Cover System

The engineering controls installed at the Controlled Property (USAI Lighting BCP C336087 Site) are as follows:

1. A passive vapor mitigation system will be operated, maintained, monitored as required by the approved SMP. Inspections and reporting will be performed in a manner specified in the approved SMP.
2. A site cover system, of at least 1 foot, will be maintained as required by the approved SMP. Inspections and reporting will be performed in a manner specified in the approved SMP.
3. Any soil underlying within the Controlled Property, must remain covered with a NYSDEC-approved barrier layer consisting of concrete slabs under building structures, concrete or asphalt pavement in walkways and driving surfaces and clean soil cover in vegetated areas on the Controlled Property, which must be inspected, certified and maintained as required in the NYSDEC-approved SMP, and handled as described in the EWP.
4. Periodic monitoring of groundwater from downgradient wells.

9-1-97

Vapor Mitigation
Cover System

The engineering controls installed at the Controlled Property (USAI Lighting BCP C336087 Site) are as follows:

1. A passive vapor mitigation system will be operated, maintained, monitored as required by the approved SMP. Inspections and reporting will be performed in a manner specified in the approved SMP.
2. A site cover system, of at least 1 foot, will be maintained as required by the approved SMP. Inspections and reporting will be performed in a manner specified in the approved SMP.
3. Any soil underlying within the Controlled Property, must remain covered with a NYSDEC-approved barrier layer consisting of concrete slabs under building structures, concrete or asphalt pavement in walkways and driving surfaces and clean soil cover in vegetated areas on the Controlled Property, which must be inspected, certified and maintained as required in the NYSDEC-approved SMP, and handled as described in the EWP.
4. Periodic monitoring of groundwater from downgradient wells.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C336087

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

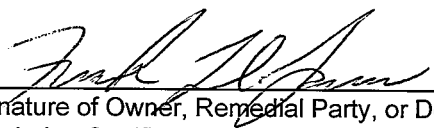
Frank Di Lauro

Senior Vice President

I Operations at 1126 River Road, New Windsor, NY
print name print business address

am certifying as Owner Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

4/25/23
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Rosaura Andujar-McNeil, P.E. 12 Raymond Ave., Poughkeepsie, NY
print name print business address

I am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

4/25/2023

Date

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

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Attachment C: Tables – 2023 and Historical Data

TABLE 1: GROUNDWATER RESULTS - JANUARY 2023
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:	FD01-20230113				MW-01-20230113				MW-02-20230113				MW-03-20230113				MW-04-20230113			
		LAB ID:	L2302270-05				L2302270-01				L2302270-02				L2302270-03				L2302270-04			
		COLLECTION DATE:	1/13/2023				1/13/2023				1/13/2023				1/13/2023				1/13/2023			
		SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER			
		NY-AWQS																				
ANALYTE	CAS	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS BY GC/MS																						
1,1,1-Trichloroethane	71-55-6	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,1,2,2-Tetrachloroethane	79-34-5	5	ND		0.5	0.17	ND		0.5	0.17	ND		1	0.33	ND		0.5	0.17	ND		0.5	0.17
1,1,2-Trichloroethane	79-00-5	1	ND		1.5	0.5	ND		1.5	0.5	ND		3	1	ND		1.5	0.5	ND		1.5	0.5
1,1-Dichloroethane	75-34-3	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,1-Dichloroethene	75-35-4	5	ND		0.5	0.17	ND		0.5	0.17	ND		1	0.34	ND		0.5	0.17	ND		0.5	0.17
1,2,3-Trichlorobenzene	87-61-6	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,2,4-Trichlorobenzene	120-82-1	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,2-Dibromoethane	106-93-4	0.0006	ND		2	0.65	ND		2	0.65	ND		4	1.3	ND		2	0.65	ND		2	0.65
1,2-Dichlorobenzene	95-50-1	3	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,2-Dichloroethane	107-06-2	0.6	ND		0.5	0.13	ND		0.5	0.13	ND		1	0.26	ND		0.5	0.13	ND		0.5	0.13
1,2-Dichloropropane	78-87-5	1	ND		1	0.14	ND		1	0.14	ND		2	0.27	ND		1	0.14	ND		1	0.14
1,3-Dichlorobenzene	541-73-1	3	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,4-Dichlorobenzene	106-46-7	3	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
1,4-Dioxane	123-91-1		ND		250	61	ND		250	61	ND		500	120	ND		250	61	ND		250	61
2-Butanone	78-93-3	50	ND		5	1.9	ND		5	1.9	ND		10	3.9	ND		5	1.9	ND		5	1.9
2-Hexanone	591-78-6	50	ND		5	1	ND		5	1	ND		10	2	ND		5	1	ND		5	1
4-Methyl-2-pentanone	108-10-1		ND		5	1	ND		5	1	ND		10	2	ND		5	1	ND		5	1
Acetone	67-64-1	50	ND		5	1.5	ND		5	1.5	ND		10	2.9	ND		5	1.5	ND		5	1.5
Benzene	71-43-2	1	ND		0.5	0.16	ND		0.5	0.16	ND		1	0.32	ND		0.5	0.16	ND		0.5	0.16
Bromochloromethane	74-97-5	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Bromodichloromethane	75-27-4	50	ND		0.5	0.19	ND		0.5	0.19	ND		1	0.38	ND		0.5	0.19	ND		0.5	0.19
Bromoform	75-25-2	50	ND		2	0.65	ND		2	0.65	ND		4	1.3	ND		2	0.65	ND		2	0.65
Bromomethane	74-83-9	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Carbon disulfide	75-15-0	60	ND		5	1	ND		5	1	ND		10	2	ND		5	1	ND		5	1
Carbon tetrachloride	56-23-5	5	ND		0.5	0.13	ND		0.5	0.13	ND		1	0.27	ND		0.5	0.13	ND		0.5	0.13
Chlorobenzene	108-90-7	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Chloroethane	75-00-3	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Chloroform	67-66-3	7	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Chloromethane	74-87-3		ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
cis-1,2-Dichloroethene	156-59-2	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
cis-1,3-Dichloropropene	10061-01-5	0.4	ND		0.5	0.14	ND		0.5	0.14	ND		1	0.29	ND		0.5	0.14	ND		0.5	0.14
Cyclohexane	110-82-7		ND		10	0.27	ND		10	0.27	ND		20	0.54	ND		10	0.27	ND		10	0.27
Dibromochloromethane	124-48-1	50	ND		0.5	0.15	ND		0.5	0.15	ND		1	0.3	ND		0.5	0.15	ND		0.5	0.15
Dichlorodifluoromethane	75-71-8	5	ND		5	1	ND		5	1	ND		10	2	ND		5	1	ND		5	1
Ethylbenzene	100-41-4	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Freon-113	76-13-1	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Isopropylbenzene	98-82-8	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Methyl Acetate	79-20-9		ND		2	0.23	ND		2	0.23	ND		4	0.47	ND		2	0.23	ND		2	0.23
Methyl cyclohexane	108-87-2		ND		10	0.4	ND		10	0.4	ND		20	0.79	ND		10	0.4	ND		10	0.4
Methyl tert butyl ether	1634-04-4	10	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Methylene chloride	75-09-2	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
o-Xylene	95-47-6	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
p/m-Xylene	179601-23-1	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Styrene	100-42-5	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Tetrachloroethene	127-18-4	5	ND		0.5	0.18	ND		0.5	0.18	ND		1	0.36	ND		0.5	0.18	ND		0.5	0.18
Toluene	108-88-3	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
trans-1,2-Dichloroethene	156-60-5	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
trans-1,3-Dichloropropene	10061-02-6	0.4	ND		0.5	0.16	ND		0.5	0.16	ND		1	0.33	ND		0.5	0.16	ND		0.5	0.16
Trichloroethene	79-01-6	5	ND		0.5	0.18	ND		0.5	0.18	ND		1	0.35	ND		0.5	0.18	ND		0.5	0.18
Trichlorofluoromethane	75-69-4	5	ND		2.5	0.7	ND		2.5	0.7	ND		5	1.4	ND		2.5	0.7	ND		2.5	0.7
Vinyl chloride	75-01-4	2	ND		1	0.07	ND		1	0.07	ND		2	0.14	ND		1	0.07	ND		1	0.07
Total VOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS																						
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44	ND		10	0.44
2,3,4,6-Tetrachlorophenol	58-90-2		ND		5	0.84	ND		5	0.84	ND		5	0.84	ND		5	0.84	ND		5	0.84
2,4,5-Trichlorophenol	95-95-4		ND		5	0.77	ND		5	0.77	ND		5	0.77	ND		5	0.77	ND		5	0.77
2,4,6-Trichlorophenol	88-06-2		ND		5	0.61	ND		5	0.61	ND		5	0.61	ND		5	0.61	ND		5	0.61
2,4-Dichlorophenol	120-83-2	1	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41	ND		5	0.41

TABLE 1: GROUNDWATER RESULTS - JANUARY 2023
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:	FD01-20230113				MW-01-20230113				MW-02-20230113				MW-03-20230113				MW-04-20230113			
		LAB ID:	L2302270-05				L2302270-01				L2302270-02				L2302270-03				L2302270-04			
		COLLECTION DATE:	1/13/2023				1/13/2023				1/13/2023				1/13/2023				1/13/2023			
		SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER			
		NY-AWQS																				
ANALYTE	CAS	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
2,4-Dimethylphenol	105-67-9	50	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8
2,4-Dinitrophenol	51-28-5	10	ND		20	6.6	ND		20	6.6	ND		20	6.6	ND		20	6.6	ND		20	6.6
2,4-Dinitrotoluene	121-14-2	5	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2
2,6-Dinitrotoluene	606-20-2	5	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93	ND		5	0.93
2-Chlorophenol	95-57-8		ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48	ND		2	0.48
2-Methylphenol	95-48-7		ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49	ND		5	0.49
2-Nitroaniline	88-74-4	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5
2-Nitrophenol	88-75-5		ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85	ND		10	0.85
3,3'-Dichlorobenzidine	91-94-1	5	ND		5	1.6	ND		5	1.6	ND		5	1.6	ND		5	1.6	ND		5	1.6
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5		ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48	ND		5	0.48
3-Nitroaniline	99-09-2	5	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81	ND		5	0.81
4,6-Dinitro-o-cresol	534-52-1		ND		10	1.8	ND		10	1.8	ND		10	1.8	ND		10	1.8	ND		10	1.8
4-Bromophenyl phenyl ether	101-55-3		ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38	ND		2	0.38
4-Chloroaniline	106-47-8	5	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1	ND		5	1.1
4-Chlorophenyl phenyl ether	7005-72-3		ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49
4-Nitroaniline	100-01-6	5	ND		5	0.8	ND		5	0.8	ND		5	0.8	ND		5	0.8	ND		5	0.8
4-Nitrophenol	100-02-7		ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67	ND		10	0.67
Acetophenone	98-86-2		ND		5	0.53	ND		5	0.53	ND		5	0.53	ND		5	0.53	ND		5	0.53
Atrazine	1912-24-9	7.5	ND		10	0.76	ND		10	0.76	ND		10	0.76	ND		10	0.76	ND		10	0.76
Benzaldehyde	100-52-7		ND		5	0.53	ND		5	0.53	ND		5	0.53	ND		5	0.53	ND		5	0.53
Biphenyl	92-52-4		ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46	ND		2	0.46
Bis(2-chloroethoxy)methane	111-91-1	5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5	ND		5	0.5
Bis(2-chloroethyl)ether	111-44-4	1	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5	ND		2	0.5
Bis(2-chloroisopropyl)ether	108-60-1	5	ND		2	0.53	ND		2	0.53	ND		2	0.53	ND		2	0.53	ND		2	0.53
Bis(2-ethylhexyl)phthalate	117-81-7	5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5	ND		3	1.5
Butyl benzyl phthalate	85-68-7	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2
Caprolactam	105-60-2		ND		10	3.3	ND		10	3.3	ND		10	3.3	ND		10	3.3	ND		10	3.3
Carbazole	86-74-8		ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49	ND		2	0.49
Di-n-butylphthalate	84-74-2	50	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39	ND		5	0.39
Di-n-octylphthalate	117-84-0	50	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3	ND		5	1.3
Dibenzofuran	132-64-9		ND		2	0.5	ND		2	0.5	1.6	J	2	0.5	ND		2	0.5	ND		2	0.5
Diethyl phthalate	84-66-2	50	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38	ND		5	0.38
Dimethyl phthalate	131-11-3	50	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8	ND		5	1.8
Hexachlorocyclopentadiene	77-47-4	5	ND		20	0.69	ND		20	0.69	ND		20	0.69	ND		20	0.69	ND		20	0.69
Isophorone	78-59-1	50	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2	ND		5	1.2
n-Nitrosodi-n-propylamine	621-64-7		ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64	ND		5	0.64
NDPA/DPA	86-30-6	50	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42	ND		2	0.42
Nitrobenzene	98-95-3	0.4	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77	ND		2	0.77
p-Chloro-m-cresol	59-50-7		ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35	ND		2	0.35
Phenol	108-95-2	1	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57	ND		5	0.57
Total SVOCs			-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS-SIM																						
2-Chloronaphthalene	91-58-7	10	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02	ND		0.2	0.02
2-Methylnaphthalene	91-57-6		ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Acenaphthene	83-32-9	20	0.3		0.1	0.01	ND		0.1	0.01	2.4		0.1	0.01	0.28		0.1	0.01	ND		0.1	0.01
Acenaphthylene	208-96-8		ND		0.1	0.01	ND		0.1	0.01	0.38		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Anthracene	120-12-7	50	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Benzo(a)anthracene	56-55-3	0.002	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.02	J	0.1	0.02	ND		0.1	0.02
Benzo(a)pyrene	50-32-8	0	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Benzo(b)fluoranthene	205-99-2	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01
Benzo(ghi)perylene	191-24-2		ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Benzo(k)fluoranthene	207-08-9	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Chrysene	218-01-9	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Dibenzo(a,h)anthracene	53-70-3		ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Fluoranthene	206-44-0	50	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Fluorene	86-73-7	50	0.29		0.1	0.01	ND		0.1	0.01	3.9		0.1	0.01	0.29		0.1	0.01	0.05	J	0.1	0.01
Hexachlorobenzene	118-74-1	0.04	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01
Hexachlorobutadiene	87-68-3	0.5	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05	ND		0.5	0.05
Hexachloroethane	67-72-1	5	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06	ND		0.8	0.06
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Naphthalene	91-20-3	10	0.05	J	0.1	0.05	ND		0.1	0.05	1		0.1	0.05	0.05	J	0.1	0.05	ND		0.1	0.05
Pentachlorophenol	87-86-5	1	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01
Phenanthrene	85-01-8	50	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.05	J	0.1	0.02
Pyrene	129-00-0	50	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.02	J	0.1	0.02	0.02	J	0.1	0.02
Total SVOCs			0.66	-	-	-	-	-	-	-	7.68	-	-	-	0.68	-	-	-	0.12	-	-	-

* Comparison is not performed on parameters with non-numeric criteria.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

HISTORICAL GROUNDWATER ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:	MW-1			FD-GW1-02212018 (MW-1)			MW-1			MW-1			MW-1			MW-01-20230113			MW-2			MW-2			MW-2			FD-GW1_200220 (MW-2)			MW-2		
		LAB ID:	L1806118-01			L1806118-07			L1909460-01			L2007757-04			L2208194-04			L2302270-01			L1806118-02			L1909460-02			L2007757-03			L2007757-06			L2208194-03		
		COLLECTION DATE:	2/21/2018			2/21/2018			3/11/2019			2/20/2020			2/16/2022			1/13/2023			2/21/2018			3/11/2019			2/20/2020			2/20/2020			2/16/2022		
		SAMPLE MATRIX:	WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER		
		NY-AWQS																																	
ANALYTE	CAS	(ug/l)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL			
VOLATILE ORGANICS BY GC/MS																																			
1,1,1-Trichloroethane	71-55-6	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,1,2,2-Tetrachloroethane	79-34-5	5	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17			
1,1,2-Trichloroethane	79-00-5	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5			
1,1-Dichloroethane	75-34-3	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,1-Dichloroethene	75-35-4	5	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17			
1,2,3-Trichlorobenzene	87-61-6	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,2,4-Trichlorobenzene	120-82-1	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,2,4-Trimethylbenzene	95-63-6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,2-Dibromoethane	106-93-4	0.0006	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65			
1,2-Dichlorobenzene	95-50-1	3	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,2-Dichloroethane	107-06-2	0.6	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13			
1,2-Dichloropropane	78-87-5	1	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14			
1,3,5-Trimethylbenzene	108-67-8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,3-Dichlorobenzene	541-73-1	3	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,4-Dichlorobenzene	106-46-7	3	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
1,4-Dioxane	123-91-1	0.35	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61			
2-Butanone	78-93-3	50	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9			
2-Hexanone	591-78-6	50	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1			
4-Methyl-2-pentanone	108-10-1	NE	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1			
Acetone	67-64-1	50	5.8	1.5	ND	1.5	ND	1.5	5.3	1.5	ND	1.5	2	J	1.5	1.5	J	1.5	5.9	1.5	2.8	J	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5				
Benzene	71-43-2	1	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16			
Bromochloromethane	74-97-5	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Bromodichloromethane	75-27-4	50	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19			
Bromoform	75-25-2	50	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65			
Bromomethane	74-83-9	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Carbon disulfide	75-15-0	60	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1			
Carbon tetrachloride	56-23-5	5	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13			
Chlorobenzene	108-90-7	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Chloroethane	75-00-3	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Chloroform	67-66-3	7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Chloromethane	74-87-3	NE	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
cis-1,2-Dichloroethene	156-59-2	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
cis-1,3-Dichloropropene	10061-01-5	0.4	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14			
Cyclohexane	110-82-7	NE	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27			
Dibromochloromethane	124-48-1	50	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15			
Dichlorodifluoromethane	75-71-8	5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1			
Ethylbenzene	100-41-4	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Freon-113	76-13-1	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Isopropylbenzene	98-82-8	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	1.8	J	0.7	1.9	J	0.7	ND	0.7			
Methyl Acetate	79-20-9	NE	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23	ND	0.23			
Methyl cyclohexane	108-87-2	NE	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4			
Methyl tert butyl ether	1634-04-4	10	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7			
Methylene chloride	75-09-2	5	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7															

* Comparison is not performed on parameters with non-numeric criteria.
 NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
 J denotes an estimated concentration
 ND denotes Non-Detect results
 NE denotes regulatory levels not established
 - denotes not applicable

HISTORICAL GROUNDWATER ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:		MW-02-20230113			MW-3			FD-GW1-20190311 (MW-3)			MW-3			MW-3			MW-03-20230113			FD01-20230113 (MW-3)			MW-4			MW-4			MW-4			MW-04-20230113					
		LAB ID:		L2302270-02			L1909460-03			L1909460-05			L2007757-02			L2208194-02			L2302270-03			L2302270-05			L1909460-04			L2007757-01			L2208194-01			L2302270-04					
		COLLECTION DATE:		1/13/2023			3/11/2019			3/11/2019			2/19/2020			2/16/2022			1/13/2023			1/13/2023			3/11/2019			2/19/2020			2/16/2022			1/13/2023					
		SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER					
		NY-AWQS																																					
ANALYTE	CAS	(ug/l)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL							
VOLATILE ORGANICS BY GC/MS																																							
1,1,1-Trichloroethane	71-55-6	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,1,2,2-Tetrachloroethane	79-34-5	5	ND	0.33	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17							
1,1,2-Trichloroethane	79-00-5	1	ND	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5							
1,1-Dichloroethane	75-34-3	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,1-Dichloroethene	75-35-4	5	ND	0.34	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17	ND	0.17							
1,2,3-Trichlorobenzene	87-61-6	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,2,4-Trichlorobenzene	120-82-1	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,2,4-Trimethylbenzene	95-63-6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,2-Dibromoethane	106-93-4	0.0006	ND	1.3	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65							
1,2-Dichlorobenzene	95-50-1	3	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,2-Dichloroethane	107-06-2	0.6	ND	0.26	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13							
1,2-Dichloropropane	78-87-5	1	ND	0.27	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14							
1,3,5-Trimethylbenzene	108-67-8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
1,3-Dichlorobenzene	541-73-1	3	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,4-Dichlorobenzene	106-46-7	3	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
1,4-Dioxane	123-91-1	0.35	ND	120	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61	ND	61							
2-Butanone	78-93-3	50	ND	3.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9							
2-Hexanone	591-78-6	50	ND	2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1							
4-Methyl-2-pentanone	108-10-1	NE	ND	2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1							
Acetone	67-64-1	50	ND	2.9	2.2	J	1.5	2.3	J	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	2	J	1.5	7.5	1.5	ND	1.5	ND	1.5	ND	1.5								
Benzene	71-43-2	1	ND	0.32	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16	ND	0.16							
Bromochloromethane	74-97-5	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
Bromodichloromethane	75-27-4	50	ND	0.38	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19	ND	0.19							
Bromoform	75-25-2	50	ND	1.3	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65	ND	0.65							
Bromomethane	74-83-9	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
Carbon disulfide	75-15-0	60	ND	2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1							
Carbon tetrachloride	56-23-5	5	ND	0.27	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13	ND	0.13							
Chlorobenzene	108-90-7	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
Chloroethane	75-00-3	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
Chloroform	67-66-3	7	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
Chloromethane	74-87-3	NE	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
cis-1,2-Dichloroethene	156-59-2	5	ND	1.4	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7	ND	0.7							
cis-1,3-Dichloropropene	10061-01-5	0.4	ND	0.29	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14	ND	0.14							
Cyclohexane	110-82-7	NE	ND	0.54	0.36	J	0.27	0.27	J	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27	ND	0.27							
Dibromochloromethane	124-48-1	50	ND	0.3	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15							
Dichlorodifluoromethane	75-71-8	5	ND	2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1							
Ethylbenzene	100-41-4	5	ND	1.4	ND																																		

HISTORICAL GROUNDWATER ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:		MW-02-20230113			MW-3			FD-GW1-20190311 (MW-3)			MW-3			MW-3			MW-03-20230113			FD01-20230113 (MW-3)			MW-4			MW-4			MW-4			MW-04-20230113								
		LAB ID:		L2302270-02			L1909460-03			L1909460-05			L2007757-02			L2208194-02			L2302270-03			L2302270-05			L1909460-04			L2007757-01			L2208194-01			L2302270-04								
		COLLECTION DATE:		1/13/2023			3/11/2019			3/11/2019			2/19/2020			2/16/2022			1/13/2023			1/13/2023			3/11/2019			2/19/2020			2/16/2022			1/13/2023								
		SAMPLE MATRIX:		WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER			WATER								
		NY-AWQS																																								
ANALYTE		CAS		(ug/l)			Conc			Q			MDL			Conc			Q			MDL			Conc			Q			MDL			Conc			Q			MDL		
SEMIVOLATILE ORGANICS BY GC/MS																																										
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44	ND	0.44						
2,3,4,6-Tetrachlorophenol	58-90-2	NE	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84	ND	0.84						
2,4,5-Trichlorophenol	95-95-4	NE	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77	ND	0.77						
2,4,6-Trichlorophenol	88-06-2	NE	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61	ND	0.61						
2,4-Dichlorophenol	120-83-2	1	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41	ND	0.41						
2,4-Dimethylphenol	105-67-9	50	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8						
2,4-Dinitrophenol	51-28-5	10	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6						
2,4-Dinitrotoluene	121-14-2	5	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2						
2,6-Dinitrotoluene	606-20-2	5	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93	ND	0.93						
2-Chlorophenol	95-57-8	NE	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48						
2-Methylphenol	95-48-7	NE	ND	0.49	-	-	-	-	-	-	-	-	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	-	-	-	-	-	-	-	-	-	-	-	-	-							
2-Nitroaniline	88-74-4	5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5						
2-Nitrophenol	88-75-5	NE	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85	ND	0.85						
3,3'-Dichlorobenzidine	91-94-1	5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6						
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NE	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48	ND	0.48						
3-Nitroaniline	99-09-2	5	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81	ND	0.81						
4,6-Dinitro-o-cresol	534-52-1	NE	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8						
4-Bromophenyl phenyl ether	101-55-3	NE	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38	ND	0.38						
4-Chloroaniline	106-47-8	5	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1						
4-Chlorophenyl phenyl ether	7005-72-3	NE	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49	ND	0.49						
4-Nitroaniline	100-01-6	5	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8	ND	0.8						
4-Nitrophenol	100-02-7	NE	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67	ND	0.67						
Acetophenone	98-86-2	NE	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53						
Atrazine	1912-24-9	7.5	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76	ND	0.76						
Benzaldehyde	100-52-7	NE	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53						
Biphenyl	92-52-4	NE	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46						
Bis(2-chloroethoxy)methane	111-91-1	5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5						
Bis(2-chloroethyl)ether	111-44-4	1	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5						
Bis(2-chloroisopropyl)ether	108-60-1	5	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53	ND	0.53						
Bis(2-ethylhexyl)phthalate	117-81-7	5	ND	1.5	1.8	J	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5					
Butyl benzyl phthalate	85-68-7	50	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2						
Caprolactam	105-60-2	NE	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.3						
Carbazole	86-74-8	NE	ND	0.49	ND	0.49	ND	0.49	ND																																	

		SAMPLE ID:	MW-5			MW-13			MW-16			MW-18		
		LAB ID:	L1806118-03			L1806118-04			L1806118-05			L1806118-06		
		COLLECTION DATE:	2/21/2018			2/21/2018			2/21/2018			2/21/2018		
		SAMPLE MATRIX:	WATER			WATER			WATER			WATER		
		NY-AWQS												
ANALYTE	CAS	(ug/l)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY GC/MS														
1,1,1-Trichloroethane	71-55-6	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,1,2,2-Tetrachloroethane	79-34-5	5	ND	0.17	-	-	-	-	-	-	-	ND	0.17	-
1,1,2-Trichloroethane	79-00-5	1	ND	0.5	-	-	-	-	-	-	-	ND	0.5	-
1,1-Dichloroethane	75-34-3	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,1-Dichloroethene	75-35-4	5	ND	0.17	-	-	-	-	-	-	-	ND	0.17	-
1,2,3-Trichlorobenzene	87-61-6	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,2,4-Trichlorobenzene	120-82-1	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,2,4-Trimethylbenzene	95-63-6	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,2-Dibromoethane	106-93-4	0.0006	ND	0.65	-	-	-	-	-	-	-	ND	0.65	-
1,2-Dichlorobenzene	95-50-1	3	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,2-Dichloroethane	107-06-2	0.6	ND	0.13	-	-	-	-	-	-	-	ND	0.13	-
1,2-Dichloropropane	78-87-5	1	ND	0.14	-	-	-	-	-	-	-	ND	0.14	-
1,3,5-Trimethylbenzene	108-67-8	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
1,3-Dichlorobenzene	541-73-1	3	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,4-Dichlorobenzene	106-46-7	3	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
1,4-Dioxane	123-91-1	0.35	ND	61	-	-	-	-	-	-	-	ND	61	-
2-Butanone	78-93-3	50	ND	1.9	-	-	-	-	-	-	-	ND	1.9	-
2-Hexanone	591-78-6	50	ND	1	-	-	-	-	-	-	-	ND	1	-
4-Methyl- 2-pentanone	108-10-1	NE	ND	1	-	-	-	-	-	-	-	ND	1	-
Acetone	67-64-1	50	ND	1.5	-	-	-	-	-	-	-	ND	1.5	-
Benzene	71-43-2	1	ND	0.16	ND	0.16	-	ND	0.16	-	-	ND	0.16	-
Bromochloromethane	74-97-5	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Bromodichloromethane	75-27-4	50	ND	0.19	-	-	-	-	-	-	-	ND	0.19	-
Bromoform	75-25-2	50	ND	0.65	-	-	-	-	-	-	-	ND	0.65	-
Bromomethane	74-83-9	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Carbon disulfide	75-15-0	60	ND	1	-	-	-	-	-	-	-	ND	1	-
Carbon tetrachloride	56-23-5	5	ND	0.13	-	-	-	-	-	-	-	ND	0.13	-
Chlorobenzene	108-90-7	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Chloroethane	75-00-3	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Chloroform	67-66-3	7	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Chloromethane	74-87-3	NE	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
cis-1,2-Dichloroethene	156-59-2	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
cis-1,3-Dichloropropene	10061-01-5	0.4	ND	0.14	-	-	-	-	-	-	-	ND	0.14	-
Cyclohexane	110-82-7	NE	ND	0.27	-	-	-	-	-	-	-	ND	0.27	-
Dibromochloromethane	124-48-1	50	ND	0.15	-	-	-	-	-	-	-	ND	0.15	-
Dichlorodifluoromethane	75-71-8	5	ND	1	-	-	-	-	-	-	-	ND	1	-
Ethylbenzene	100-41-4	5	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
Freon-113	76-13-1	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Isopropylbenzene	98-82-8	5	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
Methyl Acetate	79-20-9	NE	ND	0.23	-	-	-	-	-	-	-	ND	0.23	-
Methyl cyclohexane	108-87-2	NE	ND	0.4	-	-	-	-	-	-	-	ND	0.4	-
Methyl tert butyl ether	1634-04-4	10	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
Methylene chloride	75-09-2	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
n-Butylbenzene	104-51-8	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
n-Propylbenzene	103-65-1	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
Naphthalene	91-20-3	10	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
o-Xylene	95-47-6	5	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
p-Isopropyltoluene	99-87-6	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
p/m-Xylene	179601-23-1	5	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
sec-Butylbenzene	135-98-8	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
Styrene	100-42-5	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
tert-Butylbenzene	98-06-6	5	-	-	-	ND	0.7	-	ND	0.7	-	-	-	-
Tetrachloroethene	127-18-4	5	ND	0.18	-	-	-	-	-	-	-	ND	0.18	-
Toluene	108-88-3	5	ND	0.7	ND	0.7	-	ND	0.7	-	-	ND	0.7	-
trans-1,2-Dichloroethene	156-60-5	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
trans-1,3-Dichloropropene	10061-02-6	0.4	ND	0.16	-	-	-	-	-	-	-	ND	0.16	-
Trichloroethene	79-01-6	5	ND	0.18	-	-	-	-	-	-	-	ND	0.18	-
Trichlorofluoromethane	75-69-4	5	ND	0.7	-	-	-	-	-	-	-	ND	0.7	-
Vinyl chloride	75-01-4	2	ND	0.07	-	-	-	-	-	-	-	ND	0.07	-
Total VOCs		NE	-	-	-	-	-	-	-	-	-	-	-	-

HISTORICAL GROUNDWATER ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

		SAMPLE ID:	MW-5			MW-13			MW-16			MW-18		
		LAB ID:	L1806118-03			L1806118-04			L1806118-05			L1806118-06		
		COLLECTION DATE:	2/21/2018			2/21/2018			2/21/2018			2/21/2018		
		SAMPLE MATRIX:	WATER			WATER			WATER			WATER		
		NY-AWQS												
ANALYTE	CAS	(ug/l)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
SEMIVOLATILE ORGANICS BY GC/MS														
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ND		0.67	-	-		-	-		ND		0.67
2,3,4,6-Tetrachlorophenol	58-90-2	NE	ND		0.93	-	-		-	-		ND		0.93
2,4,5-Trichlorophenol	95-95-4	NE	ND		0.72	-	-		-	-		ND		0.72
2,4,6-Trichlorophenol	88-06-2	NE	ND		0.68	-	-		-	-		ND		0.68
2,4-Dichlorophenol	120-83-2	1	ND		0.77	-	-		-	-		ND		0.77
2,4-Dimethylphenol	105-67-9	50	ND		1.6	-	-		-	-		ND		1.6
2,4-Dinitrophenol	51-28-5	10	ND		5.5	-	-		-	-		ND		5.5
2,4-Dinitrotoluene	121-14-2	5	ND		0.84	-	-		-	-		ND		0.84
2,6-Dinitrotoluene	606-20-2	5	ND		1.1	-	-		-	-		ND		1.1
2-Chlorophenol	95-57-8	NE	ND		0.63	-	-		-	-		ND		0.63
2-Methylphenol	95-48-7	NE	-	-	-	-	-		-	-		-	-	-
2-Nitroaniline	88-74-4	5	ND		1.1	-	-		-	-		ND		1.1
2-Nitrophenol	88-75-5	NE	ND		1.5	-	-		-	-		ND		1.5
3,3'-Dichlorobenzidine	91-94-1	5	ND		1.4	-	-		-	-		ND		1.4
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NE	ND		1.1	-	-		-	-		ND		1.1
3-Nitroaniline	99-09-2	5	ND		1.2	-	-		-	-		ND		1.2
4,6-Dinitro-o-cresol	534-52-1	NE	ND		2.1	-	-		-	-		ND		2.1
4-Bromophenyl phenyl ether	101-55-3	NE	ND		0.73	-	-		-	-		ND		0.73
4-Chloroaniline	106-47-8	5	ND		0.63	-	-		-	-		ND		0.63
4-Chlorophenyl phenyl ether	7005-72-3	NE	ND		0.62	-	-		-	-		ND		0.62
4-Nitroaniline	100-01-6	5	ND		1.3	-	-		-	-		ND		1.3
4-Nitrophenol	100-02-7	NE	ND		1.8	-	-		-	-		ND		1.8
Acetophenone	98-86-2	NE	ND		0.85	-	-		-	-		ND		0.85
Atrazine	1912-24-9	7.5	ND		1.8	-	-		-	-		ND		1.8
Benzaldehyde	100-52-7	NE	ND		1.1	-	-		-	-		ND		1.1
Biphenyl	92-52-4	NE	ND		0.76	-	-		-	-		ND		0.76
Bis(2-chloroethoxy)methane	111-91-1	5	ND		0.63	-	-		-	-		ND		0.63
Bis(2-chloroethyl)ether	111-44-4	1	ND		0.67	-	-		-	-		ND		0.67
Bis(2-chloroisopropyl)ether	108-60-1	5	ND		0.7	-	-		-	-		ND		0.7
Bis(2-ethylhexyl)phthalate	117-81-7	5	ND		0.91	-	-		-	-		ND		0.91
Butyl benzyl phthalate	85-68-7	50	ND		1.3	-	-		-	-		ND		1.3
Caprolactam	105-60-2	NE	ND		3.6	-	-		-	-		ND		3.6
Carbazole	86-74-8	NE	ND		0.63	-	-		-	-		ND		0.63
Di-n-butylphthalate	84-74-2	50	ND		0.69	-	-		-	-		ND		0.69
Di-n-octylphthalate	117-84-0	50	ND		1.1	-	-		-	-		ND		1.1
Dibenzofuran	132-64-9	NE	ND		0.66	-	-		-	-		ND		0.66
Diethyl phthalate	84-66-2	50	ND		0.63	-	-		-	-		ND		0.63
Dimethyl phthalate	131-11-3	50	ND		0.65	-	-		-	-		ND		0.65
Hexachlorocyclopentadiene	77-47-4	5	ND		7.8	-	-		-	-		ND		7.8
Isophorone	78-59-1	50	ND		0.6	-	-		-	-		ND		0.6
n-Nitrosodi-n-propylamine	621-64-7	NE	ND		0.7	-	-		-	-		ND		0.7
NDPA/DPA	86-30-6	50	ND		0.64	-	-		-	-		ND		0.64
Nitrobenzene	98-95-3	0.4	ND		0.75	-	-		-	-		ND		0.75
p-Chloro-m-cresol	59-50-7	NE	ND		0.62	-	-		-	-		ND		0.62
Phenol	108-95-2	1	ND		1.9	-	-		-	-		ND		1.9
Total SVOCs by GC/MS		NE	-	-	-	-	-		-	-		-	-	-
SEMIVOLATILE ORGANICS BY GC/MS-SIM														
2-Chloronaphthalene	91-58-7	10	ND		0.04	-	-		-	-		ND		0.04
2-Methylnaphthalene	91-57-6	NE	ND		0.05	-	-		-	-		ND		0.05
Acenaphthene	83-32-9	20	ND		0.04	ND		0.03	ND		0.03	ND		0.04
Acenaphthylene	208-96-8	NE	ND		0.04	ND		0.03	ND		0.03	ND		0.04
Anthracene	120-12-7	50	ND		0.04	ND		0.03	ND		0.03	0.04	J	0.04
Benzo(a)anthracene	56-55-3	0.002	ND		0.02	ND		0.02	0.03	J	0.02	ND		0.02
Benzo(a)pyrene	50-32-8	ND	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Benzo(b)fluoranthene	205-99-2	0.002	ND		0.02	ND		0.02	0.04	J	0.02	ND		0.02
Benzo(ghi)perylene	191-24-2	NE	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Benzo(k)fluoranthene	207-08-9	0.002	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Chrysene	218-01-9	0.002	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Dibenzo(a,h)anthracene	53-70-3	NE	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Fluoranthene	206-44-0	50	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Fluorene	86-73-7	50	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Hexachlorobenzene	118-74-1	0.04	ND		0.03	-	-		-	-		ND		0.03
Hexachlorobutadiene	87-68-3	0.5	ND		0.04	-	-		-	-		ND		0.04
Hexachloroethane	67-72-1	5	ND		0.03	-	-		-	-		ND		0.03
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Naphthalene	91-20-3	10	ND		0.04	0.22		0.04	0.04	J	0.04	ND		0.04
Pentachlorophenol	87-86-5	1	ND		0.22	-	-		-	-		ND		0.22
Phenanthrene	85-01-8	50	ND		0.02	ND		0.02	0.02	J	0.01	ND		0.02
Pyrene	129-00-0	50	ND		0.04	ND		0.04	ND		0.04	ND		0.04
Total SVOCs by GC/MS-SIM		NE	-	-	-	0.22	-	-	0.13	-	-	0.04	-	-
Total SVOCs by GC/MS and GC/MS-SIM		NE	ND	-	-	0.22	-	-	0.13	-	-	0.04	-	-

* Comparison is not performed on parameters with non-numeric criteria.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
J denotes an estimated concentration
ND denotes Non-Detect results
NE denotes regulatory levels not established
- denotes not applicable

TABLE 3: ANALYTICAL SUMMARY TABLE
SOIL VAPOR AND INDOOR AIR SAMPLING
USAI LIGHTING
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC NO. C336087

		SAMPLE ID:				IA-3-20230112				VI-3-20230112				IA-2-20230112				VI-1-20230112				VI-2-20230112				
		LAB ID:				L2302299-06				L2302299-01				L2302299-07				L2302299-03				L2302299-02				
		COLLECTION DATE:				1/12/2023				1/12/2023				1/12/2023				1/12/2023				1/12/2023				
		AREA OF CONCERN:				AREA 2				AREA 2				AREA 3A				AREA 3A				AREA 3A				
		SAMPLE MATRIX:				AIR				SOIL_VAPOR				AIR				SOIL_VAPOR				SOIL_VAPOR				
		MATRIX A		MATRIX B																						
		NY-IAC-A	NY-SSC-A	NY-IAC-B	NY-SSC-B																					
ANALYTE	CAS	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	
VOLATILE ORGANICS IN AIR																										
1,1,1-Trichloroethane	71-55-6			3	100	-	-	-	-	64.4	1.09	-	-	-	-	-	-	-	7.26	1.09	-	-	ND	1.09	-	-
2,2,4-Trimethylpentane	540-84-1					ND		0.934	-	3.65		0.934	-	ND		0.934	-	ND		0.934	-	ND		0.934	-	
2-Butanone	78-93-3					4.63		1.47	-	ND		1.47	-	5.34		1.47	-	1.51		1.47	-	ND		1.47	-	
Acetone	67-64-1					42.8		2.38	-	5.91		2.38	-	44.2		2.38	-	8.65		2.38	-	5.51		2.38	-	
Benzene	71-43-2					0.914		0.639	-	0.942		0.639	-	0.85		0.639	-	ND		0.639	-	ND		0.639	-	
Carbon tetrachloride	56-23-5	0.2	6			-		-	-	ND		1.26	-	-		-	-	2.86		1.26	-	ND		1.26	-	
Chloroform	67-66-3					ND		0.977	-	ND		0.977	-	ND		0.977	-	4.84		0.977	-	ND		0.977	-	
Chloromethane	74-87-3					1.21		0.413	-	0.438		0.413	-	1.18		0.413	-	ND		0.413	-	ND		0.413	-	
Dichlorodifluoromethane	75-71-8					2.5		0.989	-	2.71		0.989	-	2.48		0.989	-	2.46		0.989	-	2.43		0.989	-	
Ethanol	64-17-5					652		9.42	-	194		9.42	-	307		9.42	-	45.6		9.42	-	11.8		9.42	-	
Ethyl Acetate	141-78-6					6.56		1.8	-	ND		1.8	-	5.98		1.8	-	ND		1.8	-	ND		1.8	-	
Ethylbenzene	100-41-4					2.86		0.869	-	0.877		0.869	-	1.59		0.869	-	ND		0.869	-	ND		0.869	-	
Freon-113	76-13-1					ND		1.53	-	3.11		1.53	-	ND		1.53	-	ND		1.53	-	ND		1.53	-	
Heptane	142-82-5					1.67		0.82	-	1.5		0.82	-	1.76		0.82	-	ND		0.82	-	ND		0.82	-	
Isopropanol	67-63-0					60.7		1.23	-	11.5		1.23	-	225		1.23	-	31.5		1.23	-	2.39		1.23	-	
n-Hexane	110-54-3					1.39		0.705	-	3.06		0.705	-	1.28		0.705	-	ND		0.705	-	ND		0.705	-	
o-Xylene	95-47-6					3.9		0.869	-	1.17		0.869	-	2.15		0.869	-	ND		0.869	-	2.5		0.869	-	
p/m-Xylene	179601-23-1					8.6		1.74	-	2.8		1.74	-	4.82		1.74	-	ND		1.74	-	3.94		1.74	-	
Styrene	100-42-5					4.43		0.852	-	1.15		0.852	-	2.5		0.852	-	ND		0.852	-	ND		0.852	-	
Tertiary butyl Alcohol	75-65-0					ND		1.52	-	ND		1.52	-	ND		1.52	-	ND		1.52	-	ND		1.52	-	
Tetrachloroethene	127-18-4			3	100	-	-	-	-	270		1.36	-	-		-	-	1.5		1.36	-	ND		1.36	-	
Tetrahydrofuran	109-99-9					ND		1.47	-	ND		1.47	-	ND		1.47	-	ND		1.47	-	1.52		1.47	-	
Toluene	108-88-3					7.91		0.754	-	2.65		0.754	-	6.97		0.754	-	14.3		0.754	-	ND		0.754	-	
Trichloroethene	79-01-6	0.2	6			-		-	-	ND		1.07	-	-		-	-	10.1		1.07	-	ND		1.07	-	
Trichlorofluoromethane	75-69-4					1.84		1.12	-	2.69		1.12	-	1.56		1.12	-	1.34		1.12	-	1.23		1.12	-	
VOLATILE ORGANICS IN AIR BY SIM																										
1,1,1-Trichloroethane	71-55-6			3	100	0.125		0.109	-	-	-	-	-	0.306		0.109	-	-	-	-	-	-	-	-	-	
Carbon tetrachloride	56-23-5	0.2	6			0.554		0.126	-	-	-	-	-	0.56		0.126	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	127-18-4			3	100	0.136		0.136	-	-	-	-	-	ND		0.136	-	-	-	-	-	-	-	-	-	

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

TABLE 3: ANALYTICAL SUMMARY TABLE
SOIL VAPOR AND INDOOR AIR SAMPLING
USAI LIGHTING
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC NO. C336087

		SAMPLE ID:				IA-1-20230112				IA-1-20230112				VI-4-20230112				IA-4-20230112				IA-4-20230112									
		LAB ID:				L2302299-08				L2302299-08 R1				L2302299-04				L2302299-09				L2302299-09 R1									
		COLLECTION DATE:				1/12/2023				1/12/2023				1/12/2023				1/12/2023				1/12/2023									
		AREA OF CONCERN:				AREA 4				AREA 4				AREA 4				AREA 8				AREA 8									
		SAMPLE MATRIX:				AIR				AIR				SOIL_VAPOR				AIR				AIR									
		MATRIX A		MATRIX B																											
		NY-IAC-A	NY-SSC-A	NY-IAC-B	NY-SSC-B																										
ANALYTE	CAS	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL						
VOLATILE ORGANICS IN AIR																															
1,1,1-Trichloroethane	71-55-6			3	100	-		-	-	-	-	-	-	ND		1.09	-	-	-	-	-	-	-	-	-						
2,2,4-Trimethylpentane	540-84-1					ND		0.934	-	-	-	-	-	ND		0.934	-	1.13		0.934	-	-	-	-	-						
2-Butanone	78-93-3					3.01		1.47	-	-	-	-	-	4.93		1.47	-	2.62		1.47	-	-	-	-	-						
Acetone	67-64-1					47		2.38	-	-	-	-	-	61.3		2.38	-	38.5		2.38	-	-	-	-	-						
Benzene	71-43-2					1.02		0.639	-	-	-	-	-	ND		0.639	-	1.09		0.639	-	-	-	-	-						
Carbon tetrachloride	56-23-5	0.2	6			-		-	-	-	-	-	-	ND		1.26	-	-		-	-	-	-	-	-						
Chloroform	67-66-3					ND		0.977	-	-	-	-	-	ND		0.977	-	ND		0.977	-	-	-	-	-						
Chloromethane	74-87-3					1.22		0.413	-	-	-	-	-	ND		0.413	-	1.2		0.413	-	-	-	-	-						
Dichlorodifluoromethane	75-71-8					2.46		0.989	-	-	-	-	-	2.43		0.989	-	2.4		0.989	-	-	-	-	-						
Ethanol	64-17-5					1940	E	9.42	-	2200		47.1	-	104		9.42	-	974	E	9.42	-	1020		18.8	-						
Ethyl Acetate	141-78-6					3.64		1.8	-	-	-	-	-	ND		1.8	-	2.89		1.8	-	-	-	-	-						
Ethylbenzene	100-41-4					ND		0.869	-	-	-	-	-	ND		0.869	-	ND		0.869	-	-	-	-	-						
Freon-113	76-13-1					ND		1.53	-	-	-	-	-	ND		1.53	-	ND		1.53	-	-	-	-	-						
Heptane	142-82-5					1.2		0.82	-	-	-	-	-	ND		0.82	-	2.75		0.82	-	-	-	-	-						
Isopropanol	67-63-0					17		1.23	-	-	-	-	-	10.1		1.23	-	12.7		1.23	-	-	-	-	-						
n-Hexane	110-54-3					1.64		0.705	-	-	-	-	-	0.708		0.705	-	1.98		0.705	-	-	-	-	-						
o-Xylene	95-47-6					ND		0.869	-	-	-	-	-	ND		0.869	-	ND		0.869	-	-	-	-	-						
p/m-Xylene	179601-23-1					ND		1.74	-	-	-	-	-	ND		1.74	-	ND		1.74	-	-	-	-	-						
Styrene	100-42-5					ND		0.852	-	-	-	-	-	ND		0.852	-	ND		0.852	-	-	-	-	-						
Tertiary butyl Alcohol	75-65-0					3.82		1.52	-	-	-	-	-	5.27		1.52	-	1.94		1.52	-	-	-	-	-						
Tetrachloroethene	127-18-4			3	100	-		-	-	-	-	-	-	ND		1.36	-	-		-	-	-	-	-	-						
Tetrahydrofuran	109-99-9					ND		1.47	-	-	-	-	-	5.63		1.47	-	ND		1.47	-	-	-	-	-						
Toluene	108-88-3					6.86		0.754	-	-	-	-	-	48.6		0.754	-	5.99		0.754	-	-	-	-	-						
Trichloroethene	79-01-6	0.2	6			-		-	-	-	-	-	-	ND		1.07	-	-		-	-	-	-	-	-						
Trichlorofluoromethane	75-69-4					2.43		1.12	-	-	-	-	-	1.63		1.12	-	2.25		1.12	-	-	-	-	-						
VOLATILE ORGANICS IN AIR BY SIM																															
1,1,1-Trichloroethane	71-55-6			3	100	ND		0.109	-	-	-	-	-	-	-	-	-	ND		0.109	-	-	-	-	-						
Carbon tetrachloride	56-23-5	0.2	6			0.522		0.126	-	-	-	-	-	-	-	-	-	0.566		0.126	-	-	-	-	-						
Tetrachloroethene	127-18-4			3	100	ND		0.136	-	-	-	-	-	-	-	-	-	ND		0.136	-	-	-	-	-						

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intr
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intr
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vaꝑ
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vaꝑ

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

TABLE 3: ANALYTICAL SUMMARY TABLE
SOIL VAPOR AND INDOOR AIR SAMPLING
USAI LIGHTING
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC NO. C336087

		SAMPLE ID: VI-5-20230112				OA-1-20230112							
		LAB ID: L2302299-05				L2302299-10							
		COLLECTION DATE: 1/12/2023				1/12/2023							
		AREA OF CONCERN: AREA 8				OUTSIDE							
		SAMPLE MATRIX: SOIL_VAPOR				AIR							
		MATRIX A		MATRIX B									
		NY-IAC-A	NY-SSC-A	NY-IAC-B	NY-SSC-B								
ANALYTE	CAS	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	Conc	Q	RL	MDL	Conc	Q	RL	MDL
VOLATILE ORGANICS IN AIR													
1,1,1-Trichloroethane	71-55-6			3	100	ND		1.09	-	-		-	-
2,2,4-Trimethylpentane	540-84-1					ND		0.934	-	ND		0.934	-
2-Butanone	78-93-3					ND		1.47	-	ND		1.47	-
Acetone	67-64-1					ND		2.38	-	2.97		2.38	-
Benzene	71-43-2					ND		0.639	-	1.26		0.639	-
Carbon tetrachloride	56-23-5	0.2	6			ND		1.26	-	-		-	-
Chloroform	67-66-3					2.11		0.977	-	ND		0.977	-
Chloromethane	74-87-3					ND		0.413	-	0.966		0.413	-
Dichlorodifluoromethane	75-71-8					2.42		0.989	-	2.41		0.989	-
Ethanol	64-17-5					ND		9.42	-	ND		9.42	-
Ethyl Acetate	141-78-6					ND		1.8	-	ND		1.8	-
Ethylbenzene	100-41-4					ND		0.869	-	ND		0.869	-
Freon-113	76-13-1					ND		1.53	-	ND		1.53	-
Heptane	142-82-5					ND		0.82	-	ND		0.82	-
Isopropanol	67-63-0					ND		1.23	-	ND		1.23	-
n-Hexane	110-54-3					ND		0.705	-	2.07		0.705	-
o-Xylene	95-47-6					ND		0.869	-	ND		0.869	-
p/m-Xylene	179601-23-1					ND		1.74	-	ND		1.74	-
Styrene	100-42-5					ND		0.852	-	ND		0.852	-
Tertiary butyl Alcohol	75-65-0					ND		1.52	-	ND		1.52	-
Tetrachloroethene	127-18-4			3	100	ND		1.36	-	-		-	-
Tetrahydrofuran	109-99-9					ND		1.47	-	ND		1.47	-
Toluene	108-88-3					ND		0.754	-	1.74		0.754	-
Trichloroethene	79-01-6	0.2	6			ND		1.07	-	-		-	-
Trichlorofluoromethane	75-69-4					1.21		1.12	-	ND		1.12	-
VOLATILE ORGANICS IN AIR BY SIM													
1,1,1-Trichloroethane	71-55-6			3	100	-	-	-	-	ND		0.109	-
Carbon tetrachloride	56-23-5	0.2	6			-	-	-	-	0.522		0.126	-
Tetrachloroethene	127-18-4			3	100	-	-	-	-	ND		0.136	-

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intr
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intr
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vaꝑ
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vaꝑ

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

TABLE 4: SOIL VAPOR ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

SAMPLE ID:		VI-1_170329		VI-1_171214		VI-1_190308		VI-1-220309		VI-1-20230112		IA-1_170329		IA-1_171214		IA-1-220309		IA-1-20230112		VI-2_170329		VI-2_171214		VI-2_190308	
LAB ID:		L1709672-01		L1746327-01		L1909300-01		CK84903		L2302299-03		L1709672-05		L1746327-07		CK84899		L2302299-08		L1709672-02		L1746327-02		L1909300-02	
COLLECTION DATE:		3/29/2017		12/14/2017		3/8/2019		3/9/2022		1/12/2023		3/29/2017		12/14/2017		3/9/2022		1/12/2023		3/29/2017		12/14/2017		3/8/2019	
SAMPLE MATRIX:		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		AIR		AIR		AIR		AIR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
VOLATILE ORGANICS IN AIR																									
1,1,1-Trichloroethane	71-55-6	9.22	1.09	22.8	1.92	21.3	1.09	4.03	1.00	7.26	1.09	-	-	-	-	< 1.00	1.00	-	-	<2.18	2.18	1.94	1.09	1.24	1.09
1,1,2,2-Tetrachloroethane	79-34-5	<1.37	1.37	<2.42	2.42	<1.37	1.37	< 1.00	1.00	<1.37	1.37	<1.37	1.37	<1.37	1.37	< 1.00	1.00	<1.37	1.37	<2.75	2.75	<1.37	1.37	<1.37	1.37
1,1,2-Trichloroethane	79-00-5	<1.09	1.09	<1.92	1.92	<1.09	1.09	< 1.00	1.00	<1.09	1.09	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09	<2.18	2.18	<1.09	1.09	<1.09	1.09
1,1-Dichloroethane	75-34-3	<0.809	0.809	<1.42	1.42	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<1.62	1.62	<0.809	0.809	<0.809	0.809
1,1-Dichloroethene	75-35-4	<0.793	0.793	<1.4	1.4	<0.793	0.793	< 0.20	0.20	<0.793	0.793	-	-	-	-	< 0.20	0.20	-	-	<1.59	1.59	<0.793	0.793	<0.793	0.793
1,2,4-Trichlorobenzene	120-82-1	<1.48	1.48	<2.61	2.61	<1.48	1.48	< 1.00	1.00	<1.48	1.48	<1.48	1.48	<1.48	1.48	< 1.00	1.00	<1.48	1.48	<2.97	2.97	<1.48	1.48	<1.48	1.48
1,2,4-Trimethylbenzene	95-63-6	3.53	0.983	<1.73	1.73	1.39	0.983	2.49	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	<0.983	0.983
1,2-Dibromoethane	106-93-4	<1.54	1.54	<2.71	2.71	<1.54	1.54	< 1.00	1.00	<1.54	1.54	<1.54	1.54	<1.54	1.54	< 1.00	1.00	<1.54	1.54	<3.07	3.07	<1.54	1.54	<1.54	1.54
1,2-Dichlorobenzene	95-50-1	<1.2	1.2	<2.12	2.12	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	<1.2	1.2
1,2-Dichloroethane	107-06-2	1.01	0.809	<1.42	1.42	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<1.62	1.62	<0.809	0.809	<0.809	0.809
1,2-Dichloropropane	78-87-5	4.03	0.924	<1.63	1.63	<0.924	0.924	< 1.00	1.00	<0.924	0.924	<0.924	0.924	<0.924	0.924	< 1.00	1.00	<0.924	0.924	<1.85	1.85	<0.924	0.924	<0.924	0.924
1,3,5-Trimethylbenzene	108-67-8	<0.983	0.983	<1.73	1.73	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	<0.983	0.983
1,3-Butadiene	106-99-0	<0.442	0.442	<0.779	0.779	<0.442	0.442	< 1.00	1.00	<0.442	0.442	<0.442	0.442	<0.442	0.442	< 1.00	1.00	<0.442	0.442	<0.885	0.885	<0.442	0.442	<0.442	0.442
1,3-Dichlorobenzene	541-73-1	<1.2	1.2	<2.12	2.12	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	<1.2	1.2
1,4-Dichlorobenzene	106-46-7	<1.2	1.2	<2.12	2.12	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	<1.2	1.2
1,4-Dioxane	123-91-1	1.28	0.721	<1.27	1.27	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<1.44	1.44	<0.721	0.721	<0.721	0.721
2-Hexanone	591-78-6	<0.82	0.82	<1.44	1.44	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<1.64	1.64	<0.82	0.82	<0.82	0.82
4-Ethyltoluene	622-96-8	<0.983	0.983	<1.73	1.73	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	<0.983	0.983
4-Methyl-2-pentanone	108-10-1	<2.05	2.05	<3.61	3.61	<2.05	2.05	< 1.00	1.00	<2.05	2.05	<2.05	2.05	<2.05	2.05	< 1.00	1.00	<2.05	2.05	<4.1	4.1	<2.05	2.05	<2.05	2.05
Acetone	67-64-1	<2.38	2.38	7.65	4.18	8.27	2.38	18.4	1.00	8.65	2.38	57.5	2.38	31.8	2.38	62.4	1.00	47	2.38	11.1	4.75	4.39	2.38	4.56	2.38
Benzene	71-43-2	2.8	0.639	<1.12	1.12	<0.639	0.639	< 1.00	1.00	<0.639	0.639	0.703	0.639	<0.639	0.639	< 1.00	1.00	1.02	0.639	<1.28	1.28	<0.639	0.639	<0.639	0.639
Benzyl chloride	100-44-7	<1.04	1.04	<1.82	1.82	<1.04	1.04	< 1.00	1.00	<1.04	1.04	<1.04	1.04	<1.04	1.04	< 1.00	1.00	<1.04	1.04	<2.07	2.07	<1.04	1.04	<1.04	1.04
Bromodichloromethane	75-27-4	<1.34	1.34	<2.36	2.36	<1.34	1.34	< 1.00	1.00	<1.34	1.34	<1.34	1.34	<1.34	1.34	< 1.00	1.00	<1.34	1.34	<2.68	2.68	<1.34	1.34	<1.34	1.34
Bromoform	75-25-2	<2.07	2.07	<3.64	3.64	<2.07	2.07	< 1.00	1.00	<2.07	2.07	<2.07	2.07	<2.07	2.07	< 1.00	1.00	<2.07	2.07	<4.14	4.14	<2.07	2.07	<2.07	2.07
Bromomethane	74-83-9	<0.777	0.777	<1.37	1.37	<0.777	0.777	< 1.00	1.00	<0.777	0.777	<0.777	0.777	<0.777	0.777	< 1.00	1.00	<0.777	0.777	<1.55	1.55	<0.777	0.777	<0.777	0.777
Carbon disulfide	75-15-0	10.6	0.623	1.49	1.1	1.24	0.623	< 1.00	1.00	<0.623	0.623	<0.623	0.623	<0.623	0.623	< 1.00	1.00	<0.623	0.623	<1.25	1.25	1.31	0.623	<0.623	0.623
Carbon tetrachloride	56-23-5	4.25	1.26	7.8	2.21	5.32	1.26	1.2	0.20	2.86	1.26	-	-	-	-	0.47	0.20	-	-	<2.52	2.52	<1.26	1.26	<1.26	1.26
Chlorobenzene	108-90-7	1.62	0.921	<1.62	1.62	<0.921	0.921	< 1.00	1.00	<0.921	0.921	<0.921	0.921	<0.921	0.921	< 1.00	1.00	<0.921	0.921	<1.84	1.84	<0.921	0.921	<0.921	0.921
Chloroethane	75-00-3	7.05	0.528	<0.929	0.929	<0.528	0.528	< 1.00	1.00	<0.528	0.528	<0.528	0.528	<0.528	0.528	< 1.00	1.00	<0.528	0.528	<1.06	1.06	<0.528	0.528	<0.528	0.528
Chloroform	67-66-3	20	0.977	21.6	1.72	8.79	0.977	2.19	1.00	4.84	0.977	<0.977	0.977	<0.977	0.977	< 1.00	1.00	<0.977	0.977	<1.95	1.95	<0.977	0.977	<0.977	0.977
Chloromethane	74-87-3	1.76	0.413	<0.727	0.727	<0.413	0.413	<																	

TABLE 4: SOIL VAPOR ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

SAMPLE ID:		VI-2-220309		VI-2-20230112		IA-2_170329		IA-2_171214		IA-2_190308		IA-2-220309		IA-2-20230112		VI-3_170329		VI-3_171214		VI-3_190308		VI-3_190604		VI-3-220309	
LAB ID:		CK84901		L2302299-02		L1709672-06		L1746327-08		L1909300-05		CK84898		L2302299-07		L1709672-03		L1746327-03		L1909300-03		L1923688-01		CK84902	
COLLECTION DATE:		3/9/2022		1/12/2023		3/29/2017		12/14/2017		3/8/2019		3/9/2022		1/12/2023		3/29/2017		12/14/2017		3/8/2019		6/4/2019		3/9/2022	
SAMPLE MATRIX:		SOIL VAPOR		SOIL VAPOR		AIR		AIR		AIR		AIR		AIR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
VOLATILE ORGANICS IN AIR																									
1,1,1-Trichloroethane	71-55-6	< 1.00	1.00	<1.09	1.09	-	-	-	-	-	-	< 1.00	1.00	-	-	328	2.18	314	1.09	127	1.09	164	1.36	32.4	1.00
1,1,2,2-Tetrachloroethane	79-34-5	< 1.00	1.00	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	< 1.00	1.00	<1.37	1.37	<2.75	2.75	<1.37	1.37	<1.37	1.37	<1.72	1.72	< 1.00	1.00
1,1,2-Trichloroethane	79-00-5	< 1.00	1.00	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09	<2.18	2.18	<1.09	1.09	<1.09	1.09	<1.36	1.36	< 1.00	1.00
1,1-Dichloroethane	75-34-3	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	4.05	1.62	4.65	0.809	<0.809	0.809	2.26	1.01	< 1.00	1.00
1,1-Dichloroethene	75-35-4	< 0.20	0.20	<0.793	0.793	-	-	-	-	-	-	< 0.20	0.20	-	-	<1.59	1.59	<0.793	0.793	<0.793	0.793	<0.991	0.991	< 0.20	0.20
1,2,4-Trichlorobenzene	120-82-1	< 1.00	1.00	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	< 1.00	1.00	<1.48	1.48	<2.97	2.97	<1.48	1.48	<1.48	1.48	<1.86	1.86	< 1.00	1.00
1,2,4-Trimethylbenzene	95-63-6	1.31	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	2.11	0.983	<1.23	1.23	1.2	1.00
1,2-Dibromoethane	106-93-4	< 1.00	1.00	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	< 1.00	1.00	<1.54	1.54	<3.07	3.07	<1.54	1.54	<1.54	1.54	<1.92	1.92	< 1.00	1.00
1,2-Dichlorobenzene	95-50-1	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	2.18	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	2.96	1.2	<1.5	1.5	< 1.00	1.00
1,2-Dichloroethane	107-06-2	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<1.62	1.62	<0.809	0.809	<0.809	0.809	<1.01	1.01	< 1.00	1.00
1,2-Dichloropropane	78-87-5	< 1.00	1.00	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	< 1.00	1.00	<0.924	0.924	<1.85	1.85	<0.924	0.924	<0.924	0.924	<1.16	1.16	< 1.00	1.00
1,3,5-Trimethylbenzene	108-67-8	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	<0.983	0.983	<1.23	1.23	< 1.00	1.00
1,3-Butadiene	106-99-0	< 1.00	1.00	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	< 1.00	1.00	<0.442	0.442	<0.885	0.885	<0.442	0.442	<0.442	0.442	<0.553	0.553	< 1.00	1.00
1,3-Dichlorobenzene	541-73-1	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	<1.2	1.2	<1.5	1.5	< 1.00	1.00
1,4-Dichlorobenzene	106-46-7	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<2.4	2.4	<1.2	1.2	<1.2	1.2	<1.5	1.5	< 1.00	1.00
1,4-Dioxane	123-91-1	< 1.00	1.00	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<1.44	1.44	<0.721	0.721	<0.721	0.721	<0.901	0.901	< 1.00	1.00
2-Hexanone	591-78-6	< 1.00	1.00	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<1.64	1.64	<0.82	0.82	<0.82	0.82	<1.02	1.02	< 1.00	1.00
4-Ethyltoluene	622-96-8	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<1.97	1.97	<0.983	0.983	<0.983	0.983	<1.23	1.23	< 1.00	1.00
4-Methyl-2-pentanone	108-10-1	< 1.00	1.00	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	< 1.00	1.00	<2.05	2.05	<4.1	4.1	<2.05	2.05	<2.05	2.05	<2.56	2.56	< 1.00	1.00
Acetone	67-64-1	9.64	1.00	5.51	2.38	70.1	2.38	30.6	2.38	50.6	2.38	135	1.00	44.2	2.38	<4.75	4.75	<2.38	2.38	10.7	2.38	<2.97	2.97	7.48	1.00
Benzene	71-43-2	< 1.00	1.00	<0.639	0.639	0.661	0.639	<0.639	0.639	0.76	0.639	< 1.00	1.00	0.85	0.639	2.46	1.28	<0.639	0.639	<0.639	0.639	<0.799	0.799	< 1.00	1.00
Benzyl chloride	100-44-7	< 1.00	1.00	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	< 1.00	1.00	<1.04	1.04	<2.07	2.07	<1.04	1.04	<1.04	1.04	<1.29	1.29	< 1.00	1.00
Bromodichloromethane	75-27-4	< 1.00	1.00	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	< 1.00	1.00	<1.34	1.34	<2.68	2.68	<1.34	1.34	<1.34	1.34	<1.67	1.67	< 1.00	1.00
Bromoform	75-25-2	< 1.00	1.00	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	< 1.00	1.00	<2.07	2.07	<4.14	4.14	<2.07	2.07	<2.07	2.07	<2.58	2.58	< 1.00	1.00
Bromomethane	74-83-9	< 1.00	1.00	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	< 1.00	1.00	<0.777	0.777	<1.55	1.55	<0.777	0.777	<0.777	0.777	<0.971	0.971	< 1.00	1.00
Carbon disulfide	75-15-0	< 1.00	1.00	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	< 1.00	1.00	<0.623	0.623	2.4	1.25	<0.623	0.623	5.23	0.623	10.9	0.779	< 1.00	1.00
Carbon tetrachloride	56-23-5	0.41	0.20	<1.26	1.26	-	-	-	-	-	-	0.46	0.20	-	-	<2.52	2.52	<1.26	1.26	<1.26	1.26	<1.57	1.57	0.43	0.20
Chlorobenzene	108-90-7	< 1.00	1.00	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	< 1.00	1.00	<0.921	0.921	<1.84	1.84	<0.921	0.921	<0.921	0.921	<1.15	1.15	< 1.00	1.00
Chloroethane	75-00-3	< 1.00	1.00	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	< 1.00	1.00	<0.528	0.528	8.47	1.06	<0.528	0.528	<0.528	0.528	<0.66	0.66	< 1.00	1.00
Chloroform	67-66-3	< 1.00	1.00	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	< 1.00	1.00	<0.977	0.977	6.98	1.95	4.82	0.977	<0.977	0.977	<1.22	1.22	< 1.00	1.00
Chloromethane	74-87-3	< 1.00	1.00	<0.413	0.413	1.73	0.413	1.15	0.413	1.17	0.413	1.44	1.00	1.18	0.413	<0.826	0.826	<0.413	0.413	<0.413	0.413	<0.516	0.516	< 1.00	1.00
cis-1,2-Dichloroethene	156-59-2	< 0.20	0.20	<0.793	0.793	-	-	-	-	-	-	< 0.20	0.20	-	-	<1.59	1.59	<0.793	0.793	<0.793	0.793	<0.991	0.991	< 0.20	0.20
cis-1,3-Dichloropropene	10061-01-5	< 1.00	1.00	<0.908	0.908	<0.908	0.908	<0.908	0.908	<0.908	0.908	< 1.00	1.00	<0.908	0.908	<1.82	1.82	<0.908	0.908	<0.908	0.908	<1.13	1.13	< 1.00	1.00
Cyclohexane	110-82-7	< 1.00	1.00	<0.688	0.688	<0.688	0.688	<0.688	0.688	23	0.688	< 1.00	1.00	<0.688	0.688	22.5	1.38	19	0.688	8.92	0.688	1.67	0.861	< 1.00	1.00
Dibromochloromethane	124-48-1																								

* Comparison is not performed on parameters with non-numeric crite

TABLE 4: SOIL VAPOR ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

SAMPLE ID:		VI-3-20230112		IA-3_170329		IA-3_171214		IA-3_190308		IA-03_20190411		IA-3_190604		IA-3-220309		IA-3-20230112		VI-4_170329		VI-4_171214		VI-4-220309		VI-4-20230112	
LAB ID:		L2302299-01		L1709672-07		L1746327-09		L1909300-06		L1915031-01		L1923688-02		CK84904		L2302299-06		L1709672-04		L1746327-04		CK84900		L2302299-04	
COLLECTION DATE:		1/12/2023		3/29/2017		12/14/2017		3/8/2019		4/11/2019		6/4/2019		3/9/2022		1/12/2023		3/29/2017		12/14/2017		3/9/2022		1/12/2023	
SAMPLE MATRIX:		SOIL_VAPOR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
VOLATILE ORGANICS IN AIR																									
1,1,1-Trichloroethane	71-55-6	64.4	1.09	-	-	-	-	-	-	-	-	-	-	< 1.00	1.00	-	-	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09
1,1,2,2-Tetrachloroethane	79-34-5	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	< 1.00	1.00	<1.37	1.37	<1.37	1.37	<1.37	1.37	< 1.00	1.00	<1.37	1.37
1,1,2-Trichloroethane	79-00-5	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09
1,1-Dichloroethane	75-34-3	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	2.45	1.00	<0.809	0.809
1,1-Dichloroethene	75-35-4	<0.793	0.793	-	-	-	-	-	-	-	-	-	-	< 0.20	0.20	-	-	<0.793	0.793	<0.793	0.793	0.39	0.20	<0.793	0.793
1,2,4-Trichlorobenzene	120-82-1	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	< 1.00	1.00	<1.48	1.48	<1.48	1.48	<1.48	1.48	< 1.00	1.00	<1.48	1.48
1,2,4-Trimethylbenzene	95-63-6	<0.983	0.983	<0.983	0.983	<0.983	0.983	1.47	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	2.01	1.00	<0.983	0.983
1,2-Dibromoethane	106-93-4	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	< 1.00	1.00	<1.54	1.54	<1.54	1.54	<1.54	1.54	< 1.00	1.00	<1.54	1.54
1,2-Dichlorobenzene	95-50-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2
1,2-Dichloroethane	107-06-2	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809
1,2-Dichloropropane	78-87-5	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	< 1.00	1.00	<0.924	0.924	<0.924	0.924	<0.924	0.924	< 1.00	1.00	<0.924	0.924
1,3,5-Trimethylbenzene	108-67-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983
1,3-Butadiene	106-99-0	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	< 1.00	1.00	<0.442	0.442	<0.442	0.442	<0.442	0.442	< 1.00	1.00	<0.442	0.442
1,3-Dichlorobenzene	541-73-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2
1,4-Dichlorobenzene	106-46-7	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2
1,4-Dioxane	123-91-1	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721
2-Hexanone	591-78-6	<0.82	0.82	1.61	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82
4-Ethyltoluene	622-96-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983
4-Methyl-2-pentanone	108-10-1	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	< 1.00	1.00	<2.05	2.05	<2.05	2.05	<2.05	2.05	1.68	1.00	<2.05	2.05
Acetone	67-64-1	5.91	2.38	112	2.38	57.7	2.38	133	2.38	94.5	2.38	64.1	2.38	129	1.00	42.8	2.38	41.3	2.38	<2.38	2.38	69.1	1.00	61.3	2.38
Benzene	71-43-2	0.942	0.639	0.968	0.639	<0.639	0.639	0.732	0.639	<0.639	0.639	<0.639	0.639	< 1.00	1.00	0.914	0.639	<0.639	0.639	<0.639	0.639	1.17	1.00	<0.639	0.639
Benzyl chloride	100-44-7	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	< 1.00	1.00	<1.04	1.04	<1.04	1.04	<1.04	1.04	< 1.00	1.00	<1.04	1.04
Bromodichloromethane	75-27-4	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	< 1.00	1.00	<1.34	1.34	<1.34	1.34	<1.34	1.34	< 1.00	1.00	<1.34	1.34
Bromoform	75-25-2	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	< 1.00	1.00	<2.07	2.07	<2.07	2.07	<2.07	2.07	< 1.00	1.00	<2.07	2.07
Bromomethane	74-83-9	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	< 1.00	1.00	<0.777	0.777	<0.777	0.777	<0.777	0.777	< 1.00	1.00	<0.777	0.777
Carbon disulfide	75-15-0	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	< 1.00	1.00	<0.623	0.623	1.41	0.623	<0.623	0.623	1.36	1.00	<0.623	0.623
Carbon tetrachloride	56-23-5	<1.26	1.26	-	-	-	-	-	-	-	-	-	-	0.59	0.20	-	-	<1.26	1.26	<1.26	1.26	0.52	0.20	<1.26	1.26
Chlorobenzene	108-90-7	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	< 1.00	1.00	<0.921	0.921	<0.921	0.921	<0.921	0.921	< 1.00	1.00	<0.921	0.921
Chloroethane	75-00-3	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	< 1.00	1.00	<0.528	0.528	<0.528	0.528	<0.528	0.528	< 1.00	1.00	<0.528	0.528
Chloroform	67-66-3	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	< 1.00	1.00	<0.977	0.977	<0.977	0.977	4.54	0.977	2.34	1.00	<0.977	0.977
Chloromethane	74-87-3	0.438	0.413	1.52	0.413	1.12	0.413	1.37	0.413																

TABLE 4: SOIL VAPOR ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

SAMPLE ID:		IA-4_171214		IA-4_190308		IA-4-20230112		VI-5_171214		VI-5_190308		VI-5-20230112		IA-05_20190411		VI-6_171214		IA-06_20190411		IA-7_20190411		IA-08_20190411		IA-9_190604	
LAB ID:		L1746327-10		L1909300-07		L2302299-09		L1746327-05		L1909300-04		L2302299-05		L1915031-02		L1746327-06		L1915031-03		L1915031-04		L1915031-05		L1923688-03	
COLLECTION DATE:		12/14/2017		3/8/2019		1/12/2023		12/14/2017		3/8/2019		1/12/2023		4/11/2019		12/14/2017		4/11/2019		4/11/2019		4/11/2019		6/4/2019	
SAMPLE MATRIX:		AIR		AIR		AIR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		AIR		SOIL VAPOR		AIR		AIR		AIR		AIR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
VOLATILE ORGANICS IN AIR																									
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	<1.09	1.09	<1.09	1.09	<1.09	1.09	-	-	<1.09	1.09	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	79-34-5	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37
1,1,2-Trichloroethane	79-00-5	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09
1,1-Dichloroethane	75-34-3	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809
1,1-Dichloroethene	75-35-4	-	-	-	-	-	-	<0.793	0.793	<0.793	0.793	<0.793	0.793	-	-	<0.793	0.793	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	120-82-1	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48
1,2,4-Trimethylbenzene	95-63-6	<0.983	0.983	<0.983	0.983	<0.983	0.983	1.01	0.983	1.25	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983
1,2-Dibromoethane	106-93-4	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54
1,2-Dichlorobenzene	95-50-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,2-Dichloroethane	107-06-2	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809
1,2-Dichloropropane	78-87-5	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924
1,3,5-Trimethylbenzene	108-67-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983
1,3-Butadiene	106-99-0	<0.442	0.442	<0.442	0.442	<0.442	0.442	3.72	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	0.529	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442
1,3-Dichlorobenzene	541-73-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,4-Dichlorobenzene	106-46-7	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,4-Dioxane	123-91-1	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	1.1	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721
2-Hexanone	591-78-6	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82
4-Ethyltoluene	622-96-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983
4-Methyl-2-pentanone	108-10-1	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	2.24	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05
Acetone	67-64-1	41.3	2.38	26.4	2.38	38.5	2.38	37.3	2.38	16	2.38	<2.38	2.38	97.2	2.38	24.5	2.38	159	2.38	98.8	2.38	110	2.38	66	2.38
Benzene	71-43-2	0.687	0.639	0.674	0.639	1.09	0.639	2.17	0.639	<0.639	0.639	<0.639	0.639	<0.639	0.639	1.99	0.639	0.642	0.639	<0.639	0.639	<0.639	0.639	<0.639	0.639
Benzyl chloride	100-44-7	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04
Bromodichloromethane	75-27-4	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34
Bromoform	75-25-2	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07
Bromomethane	74-83-9	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777
Carbon disulfide	75-15-0	<0.623	0.623	<0.623	0.623	<0.623	0.623	0.747	0.623	0.863	0.623	<0.623	0.623	<0.623	0.623	4.05	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623
Carbon tetrachloride	56-23-5	-	-	-	-	-	-	<1.26	1.26	<1.26	1.26	<1.26	1.26	-	-	<1.26	1.26	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921
Chloroethane	75-00-3	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528
Chloroform	67-66-3	<0.977	0.977	<0.977	0.977	<0.977	0.977	1.65	0.977	<0.977	0.977	2.11	0.977	<0.977	0.977	1.02	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977
Chloromethane	74-87-3	1.14	0.413	1.18	0.413	1.2	0.413	<0.413	0.413	<0.413	0.413	<0.413	0.413	1.47	0.41.										

TABLE 4: SOIL VAPOR ANALYTICAL DATA - POST REMEDIATION
USAI LIGHTING FACILITY
TOWN OF NEW WINDSOR, ORANGE COUNTY
NYSDEC ID: C336087

SAMPLE ID:		IA-10_190604		OA-1_170329		OA-1_171214		OA-1_190308		OA-1_20190411		OA-1_190604		OA-1-220309		OA-1-20230112		OA-2_170329		OA-2_171214	
LAB ID:		L1923688-04		L1709672-08		L1746327-11		L1909300-08		L1915031-06		L1923688-05		CK84897		L2302299-10		L1709672-09		L1746327-12	
COLLECTION DATE:		6/4/2019		3/29/2017		12/14/2017		3/8/2019		4/11/2019		6/4/2019		3/9/2022		1/12/2023		3/29/2017		12/14/2017	
SAMPLE MATRIX:		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR		AIR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
VOLATILE ORGANICS IN AIR																					
1,1,1-Trichloroethane	71-55-6	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	1.00	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	79-34-5	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	<1.37	1.37	< 1.00	1.00	<1.37	1.37	<1.37	1.37	<1.37	1.37
1,1,2-Trichloroethane	79-00-5	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	<1.09	1.09	< 1.00	1.00	<1.09	1.09	<1.09	1.09	<1.09	1.09
1,1-Dichloroethane	75-34-3	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809
1,1-Dichloroethene	75-35-4	-	-	-	-	-	-	-	-	-	-	-	-	< 0.20	0.20	-	-	-	-	-	-
1,2,4-Trichlorobenzene	120-82-1	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	<1.48	1.48	< 1.00	1.00	<1.48	1.48	<1.48	1.48	<1.48	1.48
1,2,4-Trimethylbenzene	95-63-6	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983
1,2-Dibromoethane	106-93-4	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	<1.54	1.54	< 1.00	1.00	<1.54	1.54	<1.54	1.54	<1.54	1.54
1,2-Dichlorobenzene	95-50-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,2-Dichloroethane	107-06-2	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	<0.809	0.809	< 1.00	1.00	<0.809	0.809	<0.809	0.809	<0.809	0.809
1,2-Dichloropropane	78-87-5	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	<0.924	0.924	< 1.00	1.00	<0.924	0.924	<0.924	0.924	<0.924	0.924
1,3,5-Trimethylbenzene	108-67-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983
1,3-Butadiene	106-99-0	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	<0.442	0.442	< 1.00	1.00	<0.442	0.442	<0.442	0.442	<0.442	0.442
1,3-Dichlorobenzene	541-73-1	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,4-Dichlorobenzene	106-46-7	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	<1.2	1.2	< 1.00	1.00	<1.2	1.2	<1.2	1.2	<1.2	1.2
1,4-Dioxane	123-91-1	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<0.721	0.721	<0.721	0.721
2-Hexanone	591-78-6	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<0.82	0.82	<0.82	0.82
4-Ethyltoluene	622-96-8	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	<0.983	0.983	< 1.00	1.00	<0.983	0.983	<0.983	0.983	<0.983	0.983
4-Methyl-2-pentanone	108-10-1	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	<2.05	2.05	< 1.00	1.00	<2.05	2.05	<2.05	2.05	<2.05	2.05
Acetone	67-64-1	60.6	2.38	<2.38	2.38	3.87	2.38	3.75	2.38	2.57	2.38	3.02	2.38	28.7	1.00	2.97	2.38	<2.38	2.38	3.35	2.38
Benzene	71-43-2	<0.639	0.639	<0.639	0.639	0.671	0.639	<0.639	0.639	<0.639	0.639	<0.639	0.639	< 1.00	1.00	1.26	0.639	<0.639	0.639	<0.639	0.639
Benzyl chloride	100-44-7	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	<1.04	1.04	< 1.00	1.00	<1.04	1.04	<1.04	1.04	<1.04	1.04
Bromodichloromethane	75-27-4	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	<1.34	1.34	< 1.00	1.00	<1.34	1.34	<1.34	1.34	<1.34	1.34
Bromoform	75-25-2	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	<2.07	2.07	< 1.00	1.00	<2.07	2.07	<2.07	2.07	<2.07	2.07
Bromomethane	74-83-9	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	<0.777	0.777	< 1.00	1.00	<0.777	0.777	<0.777	0.777	<0.777	0.777
Carbon disulfide	75-15-0	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	<0.623	0.623	< 1.00	1.00	<0.623	0.623	<0.623	0.623	<0.623	0.623
Carbon tetrachloride	56-23-5	-	-	-	-	-	-	-	-	-	-	-	-	0.43	0.20	-	-	-	-	-	-
Chlorobenzene	108-90-7	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	<0.921	0.921	< 1.00	1.00	<0.921	0.921	<0.921	0.921	<0.921	0.921
Chloroethane	75-00-3	0.53	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	<0.528	0.528	< 1.00	1.00	<0.528	0.528	<0.528	0.528	<0.528	0.528
Chloroform	67-66-3	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	<0.977	0.977	< 1.00	1.00	<0.977	0.977	<0.977	0.977	<0.977	0.977
Chloromethane	74-87-3	1.54	0.413	1.14	0.413	1.03	0.413	1.02	0.413	1.14	0.413	1.18	0.413	1.28	1.00	0.966	0.413	1.16	0.413	1.07	0.413
cis-1,2-Dichloroethene	156-59-2	-	-	-	-	-	-	-	-	-	-	-	-	< 0.20	0.20	-	-	-	-	-	-
cis-1,3-Dichloropropene	10061-01-5	<0.908	0.908	<0.908	0.908	<0.908	0.908	<0.908	0.908	<0.908	0.908	<0.908	0.908	< 1.00	1.00	<0.908	0.908	<0.908	0.908	<0.908	0.908
Cyclohexane	110-82-7	<0.688	0.688	<0.688	0.688	<0.688	0.688	<0.688	0.688	<0.688	0.688	<0.688	0.688	< 1.00	1.00	<0.688	0.688	<0.688	0.688	<0.688	0.688
Dibromochloromethane	124-48-1	<1.7	1.7	<1.7	1.7	<1.7	1.7	<1.7	1.7	<1.7	1.7	<1.7	1.7	< 1.00	1.00	<1.7	1.7	<1.7	1.7	<1.7	1.7
Dichlorodifluoromethane	75-71-8	1.67	0.989	1.6	0.989	1.53	0.989	-	-	1.36	0.989	1.29	0.989	2.26	1.00	2.41	0.989	1.63	0.989	1.76	0.989
Ethanol	64-17-5	641	9.42	<9.42	9.42	<9.42	9.42	10	9.42	11.3	9.42	12.8	9.42	83.6	1.00	<9.42	9.42	<9.42	9.42	<9.42	9.42
Ethyl Acetate	141-78-6	6.45	1.8	<1.8	1.8	<1.8	1.8	<1.8	1.8	<1.8	1.8	<1.8	1.8	< 1.00	1.00	<1.8	1.8	<1.8	1.8	<1.8	1.8
Ethylbenzene	100-41-4	1.57	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	< 1.00	1.00	<0.869	0.869	<0.869	0.869	<0.869	0.869
Heptane	142-82-5	1.76	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	<0.82	0.82	< 1.00	1.00	<0.82	0.82	<0.82	0.82	<0.82	0.82
Hexachlorobutadiene	87-68-3	<2.13	2.13	<2.13	2.13	<2.13	2.13	<2.13	2.13	<2.13	2.13	<2.13	2.13	< 1.00	1.00	<2.13	2.13	<2.13	2.13	<2.13	2.13
Isopropanol	67-63-0	104	1.23	<1.23	1.23	<1.23	1.23	<1.23	1.23	<1.23	1.23	<1.23	1.23	7.17	1.00	<1.23	1.23	<1.23	1.23	<1.23	1.23
Methyl tert butyl ether	1634-04-4	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	<0.721	0.721	< 1.00	1.00	<0.721	0.721	<0.721	0.721	<0.721	0.721
Methylene chloride	75-09-2	<1.74	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	< 3.00	3.00	<1.74	1.74	<1.74	1.74	<1.74	1.74
n-Hexane	110-54-3	0.885	0.705	1.42	0.705	<0.705	0.705	<0.705	0.705	<0.705	0.705	<0.705	0.705	1.34	1.00	2.07	0.705	0.86	0.705	<0.705	0.705
o-Xylene	95-47-6	2.58	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	<0.869	0.869	1.1	1.00	<0.869	0.869	<0.869	0.869	<0.869	0.869
p/m-Xylene	179601-23-1	5.95	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	<1.74	1.74	3	1.00	<1.74	1.74	<1.74	1.74	<1.74	1.74
Styrene	100-42-5	2.87	0.852	<0.852	0.852	<0.852	0.852	<0.852	0.852	<0.852	0.852	<0.852	0.852	< 1.00	1.00	<0.852	0.852	<0.852	0.852	<0.852	0.852
Tetrachloroethene	127-18-4	-	-	-	-	-	-	-	-	-	-	-	-	< 0.25	0.25	-	-	-	-	-	-
Tetrahydrofuran	109-99-9	1.83	1.47	<1.47	1.47	<1.47	1.47	<1.47	1.47	<1.47	1.47	<1.47	1.47	< 1.00	1.00	<1.47	1.47	<1.47	1.47	<1.47	1.47
Toluene	108-88-3	10.1	0.754	<0.754	0.754	<0.754	0.754	<0.754	0.754	0.927	0.754	<0.754	0.754	1.63	1.00	1.74	0.754	<0.754	0.754	<0.754	0.754
trans-1,2-Dichloroethene	156-60-5	<0.793	0.793	<0.793	0.793	<0.793	0.793	<0.793	0.793	<0.793											

* Comparison is not performed on parameters with non-numeric criteria

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

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Attachment D: 2023 Laboratory Results



ANALYTICAL REPORT

Lab Number:	L2302270
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Rosaura Andujar-McNeil
Phone:	(518) 786-7400
Project Name:	USAI LIGHTING
Project Number:	14.4337
Report Date:	01/20/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2302270-01	MW-01-20230113	WATER	1126 RIVER ROAD, NEW WINDSOR, NY	01/13/23 10:00	01/13/23
L2302270-02	MW-02-20230113	WATER	1126 RIVER ROAD, NEW WINDSOR, NY	01/13/23 10:50	01/13/23
L2302270-03	MW-03-20230113	WATER	1126 RIVER ROAD, NEW WINDSOR, NY	01/13/23 12:05	01/13/23
L2302270-04	MW-04-20230113	WATER	1126 RIVER ROAD, NEW WINDSOR, NY	01/13/23 12:45	01/13/23
L2302270-05	FD01-20230113	WATER	1126 RIVER ROAD, NEW WINDSOR, NY	01/13/23 00:00	01/13/23

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

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 Alpha 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, solids and tissues are reported on a dry 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, Alpha'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 Alpha Project Manager and made arrangements for Alpha 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: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2302270-02D: The sample has elevated detection limits due to the dilution required by the sample matrix. (foam)

Semivolatile Organics

The WG1734055-4/-5 MS/MSD recoveries, performed on L2302270-03, are below the acceptance criteria for 3,3'-dichlorobenzidine (0%/0%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

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:



Cristin Walker

Title: Technical Director/Representative

Date: 01/20/23

ORGANICS

VOLATILES

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-01
 Client ID: MW-01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 01/17/23 18:20

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: USAI LIGHTING

Lab Number: L2302270

Project Number: 14.4337

Report Date: 01/20/23

SAMPLE RESULTS

Lab ID: L2302270-01

Date Collected: 01/13/23 10:00

Client ID: MW-01-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-02 D
 Client ID: MW-02-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:50
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 01/17/23 18:46

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	ND		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-02 D

Date Collected: 01/13/23 10:50

Client ID: MW-02-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-03
 Client ID: MW-03-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:05
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 01/17/23 19:12

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-03**Date Collected:** 01/13/23 12:05**Client ID:** MW-03-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-04
 Client ID: MW-04-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:45
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 01/17/23 19:38
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: USAI LIGHTING

Lab Number: L2302270

Project Number: 14.4337

Report Date: 01/20/23

SAMPLE RESULTS

Lab ID: L2302270-04

Date Collected: 01/13/23 12:45

Client ID: MW-04-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-05
 Client ID: FD01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 00:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 01/17/23 20:03

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: USAI LIGHTING

Lab Number: L2302270

Project Number: 14.4337

Report Date: 01/20/23

SAMPLE RESULTS

Lab ID: L2302270-05

Date Collected: 01/13/23 00:00

Client ID: FD01-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 01/17/23 17:02
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1734543-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/17/23 17:02
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1734543-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/17/23 17:02
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1734543-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734543-3 WG1734543-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	110		120		63-132	9		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	95		99		70-130	4		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	97		98		75-130	1		20
Trichlorofluoromethane	85		88		62-150	3		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	110		110		54-136	0		20
1,1,2,2-Tetrachloroethane	97		100		67-130	3		20
Benzene	92		95		70-130	3		20
Toluene	96		99		70-130	3		20
Ethylbenzene	95		98		70-130	3		20
Chloromethane	91		93		64-130	2		20
Bromomethane	54		51		39-139	6		20
Vinyl chloride	88		91		55-140	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734543-3 WG1734543-4								
Chloroethane	86		87		55-138	1		20
1,1-Dichloroethene	82		85		61-145	4		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	96		99		70-130	3		20
1,2-Dichlorobenzene	97		98		70-130	1		20
1,3-Dichlorobenzene	98		99		70-130	1		20
1,4-Dichlorobenzene	95		98		70-130	3		20
Methyl tert butyl ether	94		99		63-130	5		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Styrene	80		85		70-130	6		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	89		110		58-148	21	Q	20
Carbon disulfide	77		80		51-130	4		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	93		99		59-130	6		20
2-Hexanone	96		100		57-130	4		20
Bromochloromethane	99		100		70-130	1		20
1,2-Dibromoethane	98		100		70-130	2		20
1,2-Dibromo-3-chloropropane	94		98		41-144	4		20
Isopropylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734543-3 WG1734543-4								
1,2,4-Trichlorobenzene	99		100		70-130	1		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	106		108		56-162	2		20
Freon-113	83		87		70-130	5		20
Methyl cyclohexane	95		100		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	98		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab MW-03-20230113 Associated sample(s): 01-05 QC Batch ID: WG1734543-8 WG1734543-9 QC Sample: L2302270-03 Client ID:												
Methylene chloride	ND	10	10	100		10	100		70-130	0		20
1,1-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
Chloroform	ND	10	10	100		10	100		70-130	0		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	11	110		11	110		63-130	0		20
1,1,2-Trichloroethane	ND	10	10	100		9.8	98		70-130	2		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	10	100		9.8	98		75-130	2		20
Trichlorofluoromethane	ND	10	9.2	92		9.1	91		62-150	1		20
1,2-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		11	110		67-130	9		20
Bromodichloromethane	ND	10	11	110		11	110		67-130	0		20
trans-1,3-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
cis-1,3-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
Bromoform	ND	10	11	110		11	110		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		10	100		67-130	0		20
Benzene	ND	10	10	100		9.7	97		70-130	3		20
Toluene	ND	10	10	100		10	100		70-130	0		20
Ethylbenzene	ND	10	10	100		9.9	99		70-130	1		20
Chloromethane	ND	10	10	100		9.9	99		64-130	1		20
Bromomethane	ND	10	3.6	36	Q	4.2	42		39-139	15		20
Vinyl chloride	ND	10	10	100		10	100		55-140	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734543-8 WG1734543-9 QC Sample: L2302270-03 Client ID: MW-03-20230113												
Chloroethane	ND	10	9.1	91		9.6	96		55-138	5		20
1,1-Dichloroethene	ND	10	8.8	88		8.6	86		61-145	2		20
trans-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Trichloroethene	ND	10	10	100		10	100		70-130	0		20
1,2-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
1,3-Dichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
1,4-Dichlorobenzene	ND	10	10	100		9.7	97		70-130	3		20
Methyl tert butyl ether	ND	10	9.7	97		9.8	98		63-130	1		20
p/m-Xylene	ND	20	21	105		20	100		70-130	5		20
o-Xylene	ND	20	20	100		18	90		70-130	11		20
cis-1,2-Dichloroethene	ND	10	11	110		10	100		70-130	10		20
Styrene	ND	20	17	85		16	80		70-130	6		20
Dichlorodifluoromethane	ND	10	12	120		12	120		36-147	0		20
Acetone	ND	10	11	110		10	100		58-148	10		20
Carbon disulfide	ND	10	8.2	82		8.4	84		51-130	2		20
2-Butanone	ND	10	12	120		12	120		63-138	0		20
4-Methyl-2-pentanone	ND	10	9.9	99		9.8	98		59-130	1		20
2-Hexanone	ND	10	11	110		10	100		57-130	10		20
Bromochloromethane	ND	10	10	100		9.9	99		70-130	1		20
1,2-Dibromoethane	ND	10	10	100		9.8	98		70-130	2		20
1,2-Dibromo-3-chloropropane	ND	10	9.6	96		9.4	94		41-144	2		20
Isopropylbenzene	ND	10	11	110		10	100		70-130	10		20
1,2,3-Trichlorobenzene	ND	10	11	110		11	110		70-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734543-8 WG1734543-9 QC Sample: L2302270-03 Client ID: MW-03-20230113												
1,2,4-Trichlorobenzene	ND	10	11	110		10	100		70-130	10		20
Methyl Acetate	ND	10	10	100		10	100		70-130	0		20
Cyclohexane	ND	10	11	110		11	110		70-130	0		20
1,4-Dioxane	ND	500	350	70		410	82		56-162	16		20
Freon-113	ND	10	8.3	83		8.6	86		70-130	4		20
Methyl cyclohexane	ND	10	10	100		10	100		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		101		70-130
4-Bromofluorobenzene	106		107		70-130
Dibromofluoromethane	98		100		70-130
Toluene-d8	101		100		70-130

SEMIVOLATILES

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-01
 Client ID: MW-01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 01/18/23 10:26
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-01**Date Collected:** 01/13/23 10:00**Client ID:** MW-01-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	78		41-149

Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302270**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-01
 Client ID: MW-01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 12:05
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-01

Date Collected: 01/13/23 10:00

Client ID: MW-01-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	72		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-02
 Client ID: MW-02-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:50
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 01/18/23 10:48
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	1.6	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-02**Date Collected:** 01/13/23 10:50**Client ID:** MW-02-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	87		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-02
 Client ID: MW-02-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 10:50
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 12:55
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	2.4		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.0		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.38		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	3.9		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-02

Date Collected: 01/13/23 10:50

Client ID: MW-02-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	132	Q	23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	153	Q	10-120
4-Terphenyl-d14	85		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-03
 Client ID: MW-03-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:05
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 01/18/23 11:36
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-03**Date Collected:** 01/13/23 12:05**Client ID:** MW-03-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	80		41-149

Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302270**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-03
 Client ID: MW-03-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:05
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 13:28
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.28		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.29		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-03

Date Collected: 01/13/23 12:05

Client ID: MW-03-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	129	Q	10-120
4-Terphenyl-d14	78		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-04
 Client ID: MW-04-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:45
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 01/18/23 12:43
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-04**Date Collected:** 01/13/23 12:45**Client ID:** MW-04-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	82		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-04
 Client ID: MW-04-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 12:45
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 13:45
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-04

Date Collected: 01/13/23 12:45

Client ID: MW-04-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	131	Q	23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	114		10-120
4-Terphenyl-d14	87		41-149

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-05
 Client ID: FD01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 00:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 01/18/23 13:05
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS****Lab ID:** L2302270-05**Date Collected:** 01/13/23 00:00**Client ID:** FD01-20230113**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD, NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	66		41-149

Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302270**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-05
 Client ID: FD01-20230113
 Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Date Collected: 01/13/23 00:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 14:01
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 16:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.30		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.29		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: USAI LIGHTING**Lab Number:** L2302270**Project Number:** 14.4337**Report Date:** 01/20/23**SAMPLE RESULTS**

Lab ID: L2302270-05

Date Collected: 01/13/23 00:00

Client ID: FD01-20230113

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD, NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	114		10-120
4-Terphenyl-d14	66		41-149

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/18/23 01:09
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 01/17/23 02:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1734055-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 01/18/23 01:09
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 01/17/23 02:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1734055-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	78		41-149

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 01/18/23 11:48
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 01/17/23 02:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1734056-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302270
Report Date: 01/20/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
 Analytical Date: 01/18/23 11:48
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 01/17/23 02:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1734056-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	133	Q	23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	94		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734055-2 WG1734055-3								
Bis(2-chloroethyl)ether	75		70		40-140	7		30
3,3'-Dichlorobenzidine	75		72		40-140	4		30
2,4-Dinitrotoluene	106		102		48-143	4		30
2,6-Dinitrotoluene	94		87		40-140	8		30
4-Chlorophenyl phenyl ether	75		76		40-140	1		30
4-Bromophenyl phenyl ether	77		76		40-140	1		30
Bis(2-chloroisopropyl)ether	79		78		40-140	1		30
Bis(2-chloroethoxy)methane	80		77		40-140	4		30
Hexachlorocyclopentadiene	69		65		40-140	6		30
Isophorone	74		72		40-140	3		30
Nitrobenzene	84		82		40-140	2		30
NDPA/DPA	79		77		40-140	3		30
n-Nitrosodi-n-propylamine	76		74		29-132	3		30
Bis(2-ethylhexyl)phthalate	122		120		40-140	2		30
Butyl benzyl phthalate	100		96		40-140	4		30
Di-n-butylphthalate	89		84		40-140	6		30
Di-n-octylphthalate	116		110		40-140	5		30
Diethyl phthalate	88		85		40-140	3		30
Dimethyl phthalate	81		75		40-140	8		30
Biphenyl	75		72		40-140	4		30
4-Chloroaniline	57		56		40-140	2		30
2-Nitroaniline	96		97		52-143	1		30
3-Nitroaniline	88		84		25-145	5		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734055-2 WG1734055-3								
4-Nitroaniline	97		98		51-143	1		30
Dibenzofuran	77		74		40-140	4		30
1,2,4,5-Tetrachlorobenzene	68		67		2-134	1		30
Acetophenone	75		74		39-129	1		30
2,4,6-Trichlorophenol	74		69		30-130	7		30
p-Chloro-m-cresol	75		75		23-97	0		30
2-Chlorophenol	77		73		27-123	5		30
2,4-Dichlorophenol	79		74		30-130	7		30
2,4-Dimethylphenol	45		49		30-130	9		30
2-Nitrophenol	100		95		30-130	5		30
4-Nitrophenol	98	Q	94	Q	10-80	4		30
2,4-Dinitrophenol	101		94		20-130	7		30
4,6-Dinitro-o-cresol	120		117		20-164	3		30
Phenol	61		56		12-110	9		30
2-Methylphenol	71		67		30-130	6		30
3-Methylphenol/4-Methylphenol	81		79		30-130	3		30
2,4,5-Trichlorophenol	73		71		30-130	3		30
Carbazole	82		79		55-144	4		30
Atrazine	79		86		40-140	8		30
Benzaldehyde	75		73		40-140	3		30
Caprolactam	39		37		10-130	5		30
2,3,4,6-Tetrachlorophenol	79		72		40-140	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1734055-2 WG1734055-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		64		21-120
Phenol-d6	62		60		10-120
Nitrobenzene-d5	89		78		23-120
2-Fluorobiphenyl	74		69		15-120
2,4,6-Tribromophenol	83		82		10-120
4-Terphenyl-d14	77		74		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1734056-2 WG1734056-3								
Acenaphthene	69		79		40-140	14		40
2-Chloronaphthalene	73		77		40-140	5		40
Fluoranthene	79		89		40-140	12		40
Hexachlorobutadiene	68		75		40-140	10		40
Naphthalene	67		72		40-140	7		40
Benzo(a)anthracene	80		92		40-140	14		40
Benzo(a)pyrene	83		95		40-140	13		40
Benzo(b)fluoranthene	85		98		40-140	14		40
Benzo(k)fluoranthene	82		91		40-140	10		40
Chrysene	82		94		40-140	14		40
Acenaphthylene	74		81		40-140	9		40
Anthracene	77		87		40-140	12		40
Benzo(ghi)perylene	91		105		40-140	14		40
Fluorene	74		82		40-140	10		40
Phenanthrene	77		86		40-140	11		40
Dibenzo(a,h)anthracene	97		109		40-140	12		40
Indeno(1,2,3-cd)pyrene	98		110		40-140	12		40
Pyrene	77		88		40-140	13		40
2-Methylnaphthalene	68		74		40-140	8		40
Pentachlorophenol	84		94		40-140	11		40
Hexachlorobenzene	84		94		40-140	11		40
Hexachloroethane	75		76		40-140	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1734056-2 WG1734056-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		68		21-120
Phenol-d6	55		62		10-120
Nitrobenzene-d5	108		119		23-120
2-Fluorobiphenyl	72		78		15-120
2,4,6-Tribromophenol	91		132	Q	10-120
4-Terphenyl-d14	81		92		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734055-4 WG1734055-5 QC Sample: L2302270-03 Client ID: MW-03-20230113												
Bis(2-chloroethyl)ether	ND	18.2	12	66		8.8	48		40-140	31	Q	30
3,3'-Dichlorobenzidine	ND	18.2	ND	0	Q	ND	0	Q	40-140	NC		30
2,4-Dinitrotoluene	ND	18.2	15	83		13	72		48-143	14		30
2,6-Dinitrotoluene	ND	18.2	16	88		12	66		40-140	29		30
4-Chlorophenyl phenyl ether	ND	18.2	13	72		11	61		40-140	17		30
4-Bromophenyl phenyl ether	ND	18.2	13	72		10	55		40-140	26		30
Bis(2-chloroisopropyl)ether	ND	18.2	15	83		11	61		40-140	31	Q	30
Bis(2-chloroethoxy)methane	ND	18.2	12	66		9.2	51		40-140	26		30
Hexachlorocyclopentadiene	ND	18.2	9.8J	54		6.5J	36	Q	40-140	40	Q	30
Isophorone	ND	18.2	11	61		8.6	47		40-140	24		30
Nitrobenzene	ND	18.2	13	72		9.3	51		40-140	33	Q	30
NDPA/DPA	ND	18.2	14	77		11	61		40-140	24		30
n-Nitrosodi-n-propylamine	ND	18.2	12	66		9.1	50		29-132	27		30
Bis(2-ethylhexyl)phthalate	ND	18.2	13	72		11	61		40-140	17		30
Butyl benzyl phthalate	ND	18.2	13	72		12	66		40-140	8		30
Di-n-butylphthalate	ND	18.2	13	72		10	55		40-140	26		30
Di-n-octylphthalate	ND	18.2	13	72		11	61		40-140	17		30
Diethyl phthalate	ND	18.2	12	66		10	55		40-140	18		30
Dimethyl phthalate	ND	18.2	14	77		11	61		40-140	24		30
Biphenyl	ND	18.2	16	88		12	66		40-140	29		30
4-Chloroaniline	ND	18.2	8.7	48		7.2	40		40-140	19		30
2-Nitroaniline	ND	18.2	15	83		12	66		52-143	22		30
3-Nitroaniline	ND	18.2	9.5	52		7.7	42		25-145	21		30

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734055-4 WG1734055-5 QC Sample: L2302270-03 Client ID: MW-03-20230113												
4-Nitroaniline	ND	18.2	12	66		9.9	54		51-143	19		30
Dibenzofuran	ND	18.2	13	72		9.9	54		40-140	27		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	14	77		11	61		2-134	24		30
Acetophenone	ND	18.2	14	77		10	55		39-129	33	Q	30
2,4,6-Trichlorophenol	ND	18.2	18	99		14	77		30-130	25		30
p-Chloro-m-cresol	ND	18.2	14	77		11	61		23-97	24		30
2-Chlorophenol	ND	18.2	13	72		9.5	52		27-123	31	Q	30
2,4-Dichlorophenol	ND	18.2	15	83		11	61		30-130	31	Q	30
2,4-Dimethylphenol	ND	18.2	8.7	48		6.9	38		30-130	23		30
2-Nitrophenol	ND	18.2	18	99		13	72		30-130	32	Q	30
4-Nitrophenol	ND	18.2	13	72		12	66		10-80	8		30
2,4-Dinitrophenol	ND	18.2	28	150	Q	22	120		20-130	24		30
4,6-Dinitro-o-cresol	ND	18.2	25	140		21	120		20-164	17		30
Phenol	ND	18.2	8.4	46		6.6	36		12-110	24		30
2-Methylphenol	ND	18.2	11	61		8.9	49		30-130	21		30
3-Methylphenol/4-Methylphenol	ND	18.2	12	66		9.3	51		30-130	25		30
2,4,5-Trichlorophenol	ND	18.2	16	88		12	66		30-130	29		30
Carbazole	ND	18.2	13	72		10	55		55-144	26		30
Atrazine	ND	18.2	18	99		15	83		40-140	18		30
Benzaldehyde	ND	18.2	14	77		9.9	54		40-140	34	Q	30
Caprolactam	ND	18.2	9.9J	54		8.5J	47		10-130	15		30
2,3,4,6-Tetrachlorophenol	ND	18.2	17	94		14	77		40-140	19		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302270**Report Date:** 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734055-4 WG1734055-5 QC Sample: L2302270-03 Client ID: MW-03-20230113

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	75		62		10-120
2-Fluorobiphenyl	79		60		15-120
2-Fluorophenol	61		43		21-120
4-Terphenyl-d14	80		64		41-149
Nitrobenzene-d5	75		49		23-120
Phenol-d6	50		38		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302270

Report Date: 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734056-4 WG1734056-5 QC Sample: L2302270-03 Client ID: MW-03-20230113												
Acenaphthene	0.28	18.2	14	75		11	59		40-140	24		40
2-Chloronaphthalene	ND	18.2	13	72		10	55		40-140	26		40
Fluoranthene	ND	18.2	15	83		12	66		40-140	22		40
Hexachlorobutadiene	ND	18.2	12	66		9.0	50		40-140	29		40
Naphthalene	0.05J	18.2	13	72		9.6	53		40-140	30		40
Benzo(a)anthracene	0.02J	18.2	16	88		13	72		40-140	21		40
Benzo(a)pyrene	ND	18.2	16	88		13	72		40-140	21		40
Benzo(b)fluoranthene	0.02J	18.2	17	94		13	72		40-140	27		40
Benzo(k)fluoranthene	ND	18.2	16	88		13	72		40-140	21		40
Chrysene	ND	18.2	16	88		13	72		40-140	21		40
Acenaphthylene	ND	18.2	14	77		11	61		40-140	24		40
Anthracene	ND	18.2	16	88		12	66		40-140	29		40
Benzo(ghi)perylene	ND	18.2	18	99		15	83		40-140	18		40
Fluorene	0.29	18.2	15	81		12	64		40-140	22		40
Phenanthrene	ND	18.2	15	83		12	66		40-140	22		40
Dibenzo(a,h)anthracene	ND	18.2	20	110		16	88		40-140	22		40
Indeno(1,2,3-cd)pyrene	ND	18.2	20	110		16	88		40-140	22		40
Pyrene	0.02J	18.2	15	83		12	66		40-140	22		40
2-Methylnaphthalene	ND	18.2	13	72		9.8	54		40-140	28		40
Pentachlorophenol	ND	18.2	25	140		21	120		40-140	17		40
Hexachlorobenzene	ND	18.2	17	94		13	72		40-140	27		40
Hexachloroethane	ND	18.2	15	83		10	55		40-140	40		40

Matrix Spike Analysis**Batch Quality Control****Project Name:** USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302270**Report Date:** 01/20/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1734056-4 WG1734056-5 QC Sample: L2302270-03
 Client ID: MW-03-20230113

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	144	Q	116		10-120
2-Fluorobiphenyl	75		57		15-120
2-Fluorophenol	75		53		21-120
4-Terphenyl-d14	84		67		41-149
Nitrobenzene-d5	129	Q	92		23-120
Phenol-d6	65		48		10-120

Project Name: USAI LIGHTING
Project Number: 14.4337

Serial_No:01202310:45
Lab Number: L2302270
Report Date: 01/20/23

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2302270-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-01D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-01E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-02A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-02B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-02C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-02D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-02E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-03A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03A1	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03A2	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03B1	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03B2	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03C1	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03C2	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-03D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-03D1	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-03D2	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-03E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2302270-03E1	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-03E2	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-04A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-04B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-04C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-04D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-04E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-05A	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-05B	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-05C	Vial HCl preserved	A	NA		4.6	Y	Absent		NYTCL-8260(14)
L2302270-05D	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2302270-05E	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

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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.

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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

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Data Qualifiers

Identified Compounds (TICs).

- 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.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical 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 Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical 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 Alpha Analytical.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **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-D, 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), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 1/14/23		L2302270 ALPHA Job # L2302314																																																																																																																																																																																																																																																																																			
Client Information Client: C.T. Male Associates Address: 50 century Hill Dr. Latham, NY 12110 Phone: 518-786-7400 Fax: Email: r.andujar-mcneil@ctmale.com		Project Information Project Name: USA1 Lighting Project Location: 1126 River Road, New Windsor, NY Project # 14.4337 (Use Project name as Project #) ☐ Project Manager: Rosaura Andujar-McNeil ALPHAQuote #: Turn-Around Time: 4.com Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge																																																																																																																																																																																																																																																																																			
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Please also send results to m.loughlin@ctmale.com Please specify Metals or TAL.		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		ANALYSIS Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments		T o t a l B o t t l e																																																																																																																																																																																																																																																																																					
<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TCL VOCs</th> <th rowspan="2">TCL SVOCs</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>02314-01</td> <td>MW-01-20230113</td> <td>1/13/23</td> <td>10:00</td> <td>GW</td> <td>ML</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>02</td> <td>MW-02-20230113</td> <td></td> <td>10:50</td> <td></td> <td>ML</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>03</td> <td>MW-03-20230113</td> <td></td> <td>12:05</td> <td></td> <td>ML</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15</td> </tr> <tr> <td>04</td> <td>MW-04-20230113</td> <td></td> <td>12:45</td> <td></td> <td>ML</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>05</td> <td>FDO1-20230113</td> <td></td> <td></td> <td></td> <td>ML</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCL VOCs	TCL SVOCs											Date	Time	02314-01	MW-01-20230113	1/13/23	10:00	GW	ML	✓	✓										5	02	MW-02-20230113		10:50		ML	✓	✓										5	03	MW-03-20230113		12:05		ML	✓	✓										15	04	MW-04-20230113		12:45		ML	✓	✓										5	05	FDO1-20230113				ML	✓	✓										5																																																																																																																																																																			Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V A Preservative B A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
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ANALYTICAL REPORT

Lab Number:	L2302299
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Rosaura Andujar-McNeil
Phone:	(518) 786-7400
Project Name:	USAI LIGHTING
Project Number:	14.4337
Report Date:	01/24/23

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2302299-01	VI-3-20230112	SOIL_VAPOR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 16:55	01/13/23
L2302299-02	VI-2-20230112	SOIL_VAPOR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 16:40	01/13/23
L2302299-03	VI-1-20230112	SOIL_VAPOR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 16:22	01/13/23
L2302299-04	VI-4-20230112	SOIL_VAPOR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 17:10	01/13/23
L2302299-05	VI-5-20230112	SOIL_VAPOR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 17:25	01/13/23
L2302299-06	IA-3-20230112	AIR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 17:00	01/13/23
L2302299-07	IA-2-20230112	AIR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 16:38	01/13/23
L2302299-08	IA-1-20230112	AIR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 17:13	01/13/23
L2302299-09	IA-4-20230112	AIR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 17:24	01/13/23
L2302299-10	OA-1-20230112	AIR	1126 RIVER ROAD NEW WINDSOR, NY	01/12/23 16:18	01/13/23

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

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 Alpha 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, solids and tissues are reported on a dry 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, Alpha'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 Alpha Project Manager and made arrangements for Alpha 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: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 11, 2023. The canister certification results are provided as an addendum.

L2302299-08 and -09: The samples were re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2302299-08D and -09D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 01/24/23

AIR

Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-01
 Client ID: VI-3-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:55
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/22/23 01:51
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.549	0.200	--	2.71	0.989	--		1
Chloromethane	0.212	0.200	--	0.438	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	103	5.00	--	194	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.49	1.00	--	5.91	2.38	--		1
Trichlorofluoromethane	0.479	0.200	--	2.69	1.12	--		1
Isopropanol	4.69	0.500	--	11.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	0.406	0.200	--	3.11	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-01

Client ID: VI-3-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:55

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.868	0.200	--	3.06	0.705	--		1
1,1,1-Trichloroethane	11.8	0.200	--	64.4	1.09	--		1
Benzene	0.295	0.200	--	0.942	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.781	0.200	--	3.65	0.934	--		1
Heptane	0.365	0.200	--	1.50	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.704	0.200	--	2.65	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	39.8	0.200	--	270	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.202	0.200	--	0.877	0.869	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-01

Date Collected: 01/12/23 16:55

Client ID: VI-3-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.644	0.400	--	2.80	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.270	0.200	--	1.15	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.269	0.200	--	1.17	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-02
 Client ID: VI-2-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:40
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/22/23 02:32
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.26	5.00	--	11.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.32	1.00	--	5.51	2.38	--		1
Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--		1
Isopropanol	0.972	0.500	--	2.39	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-02

Client ID: VI-2-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:40

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.514	0.500	--	1.52	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-02

Date Collected: 01/12/23 16:40

Client ID: VI-2-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.906	0.400	--	3.94	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.576	0.200	--	2.50	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-03
 Client ID: VI-1-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:22
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/22/23 03:13
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.497	0.200	--	2.46	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	24.2	5.00	--	45.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.64	1.00	--	8.65	2.38	--		1
Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--		1
Isopropanol	12.8	0.500	--	31.5	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.513	0.500	--	1.51	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-03

Client ID: VI-1-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:22

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.992	0.200	--	4.84	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	1.33	0.200	--	7.26	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	0.455	0.200	--	2.86	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	1.88	0.200	--	10.1	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.79	0.200	--	14.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.221	0.200	--	1.50	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-03

Date Collected: 01/12/23 16:22

Client ID: VI-1-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-04
 Client ID: VI-4-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:10
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/22/23 03:54
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.491	0.200	--	2.43	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	55.1	5.00	--	104	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	25.8	1.00	--	61.3	2.38	--		1
Trichlorofluoromethane	0.290	0.200	--	1.63	1.12	--		1
Isopropanol	4.10	0.500	--	10.1	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.74	0.500	--	5.27	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.67	0.500	--	4.93	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-04

Client ID: VI-4-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:10

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	1.91	0.500	--	5.63	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.201	0.200	--	0.708	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	12.9	0.200	--	48.6	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-04

Date Collected: 01/12/23 17:10

Client ID: VI-4-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-05
 Client ID: VI-5-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:25
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 01/22/23 04:34
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.489	0.200	--	2.42	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.216	0.200	--	1.21	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-05

Date Collected: 01/12/23 17:25

Client ID: VI-5-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.432	0.200	--	2.11	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-05

Date Collected: 01/12/23 17:25

Client ID: VI-5-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-06
 Client ID: IA-3-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:00
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/21/23 21:45
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.505	0.200	--	2.50	0.989	--		1
Chloromethane	0.587	0.200	--	1.21	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	346	5.00	--	652	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.0	1.00	--	42.8	2.38	--		1
Trichlorofluoromethane	0.327	0.200	--	1.84	1.12	--		1
Isopropanol	24.7	0.500	--	60.7	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.57	0.500	--	4.63	1.47	--		1
Ethyl Acetate	1.82	0.500	--	6.56	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-06

Client ID: IA-3-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:00

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.394	0.200	--	1.39	0.705	--		1
Benzene	0.286	0.200	--	0.914	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.407	0.200	--	1.67	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.10	0.200	--	7.91	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.659	0.200	--	2.86	0.869	--		1
p/m-Xylene	1.98	0.400	--	8.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	1.04	0.200	--	4.43	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.899	0.200	--	3.90	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-06

Date Collected: 01/12/23 17:00

Client ID: IA-3-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	91		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-06

Client ID: IA-3-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:00

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 21:45

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.023	0.020	--	0.125	0.109	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.020	0.020	--	0.136	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-07
 Client ID: IA-2-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:38
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/21/23 22:26
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.502	0.200	--	2.48	0.989	--		1
Chloromethane	0.573	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	163	5.00	--	307	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	18.6	1.00	--	44.2	2.38	--		1
Trichlorofluoromethane	0.277	0.200	--	1.56	1.12	--		1
Isopropanol	91.6	0.500	--	225	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.81	0.500	--	5.34	1.47	--		1
Ethyl Acetate	1.66	0.500	--	5.98	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-07

Client ID: IA-2-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:38

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.363	0.200	--	1.28	0.705	--		1
Benzene	0.266	0.200	--	0.850	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.429	0.200	--	1.76	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.85	0.200	--	6.97	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.367	0.200	--	1.59	0.869	--		1
p/m-Xylene	1.11	0.400	--	4.82	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.587	0.200	--	2.50	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.496	0.200	--	2.15	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS****Lab ID:** L2302299-07**Date Collected:** 01/12/23 16:38**Client ID:** IA-2-20230112**Date Received:** 01/13/23**Sample Location:** 1126 RIVER ROAD NEW WINDSOR, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-07

Client ID: IA-2-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:38

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 22:26

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.056	0.020	--	0.306	0.109	--		1
Carbon tetrachloride	0.089	0.020	--	0.560	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-08
 Client ID: IA-1-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:13
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/21/23 23:08
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.498	0.200	--	2.46	0.989	--		1
Chloromethane	0.593	0.200	--	1.22	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	1030	5.00	--	1940	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	19.8	1.00	--	47.0	2.38	--		1
Trichlorofluoromethane	0.432	0.200	--	2.43	1.12	--		1
Isopropanol	6.93	0.500	--	17.0	1.23	--		1
Tertiary butyl Alcohol	1.26	0.500	--	3.82	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.02	0.500	--	3.01	1.47	--		1
Ethyl Acetate	1.01	0.500	--	3.64	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS****Lab ID:** L2302299-08**Client ID:** IA-1-20230112**Sample Location:** 1126 RIVER ROAD NEW WINDSOR, NY**Date Collected:** 01/12/23 17:13**Date Received:** 01/13/23**Field Prep:** Not Specified**Sample Depth:**

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.465	0.200	--	1.64	0.705	--		1
Benzene	0.319	0.200	--	1.02	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.292	0.200	--	1.20	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.82	0.200	--	6.86	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-08

Date Collected: 01/12/23 17:13

Client ID: IA-1-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-08

Client ID: IA-1-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:13

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 23:08

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-08 D

Client ID: IA-1-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:13

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 01/22/23 07:09

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	1170	25.0	--	2200	47.1	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-09
 Client ID: IA-4-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:24
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/21/23 23:48
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.486	0.200	--	2.40	0.989	--		1
Chloromethane	0.581	0.200	--	1.20	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	517	5.00	--	974	9.42	--	E	1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.2	1.00	--	38.5	2.38	--		1
Trichlorofluoromethane	0.401	0.200	--	2.25	1.12	--		1
Isopropanol	5.16	0.500	--	12.7	1.23	--		1
Tertiary butyl Alcohol	0.641	0.500	--	1.94	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.888	0.500	--	2.62	1.47	--		1
Ethyl Acetate	0.802	0.500	--	2.89	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-09

Client ID: IA-4-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:24

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.562	0.200	--	1.98	0.705	--		1
Benzene	0.340	0.200	--	1.09	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.242	0.200	--	1.13	0.934	--		1
Heptane	0.671	0.200	--	2.75	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.59	0.200	--	5.99	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-09

Date Collected: 01/12/23 17:24

Client ID: IA-4-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-09

Client ID: IA-4-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:24

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 23:48

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-09 D

Client ID: IA-4-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 17:24

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 01/22/23 07:49

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	541	10.0	--	1020	18.8	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-10
 Client ID: OA-1-20230112
 Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:18
 Date Received: 01/13/23
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 01/21/23 17:41
 Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.487	0.200	--	2.41	0.989	--		1
Chloromethane	0.468	0.200	--	0.966	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.25	1.00	--	2.97	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-10

Client ID: OA-1-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:18

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.587	0.200	--	2.07	0.705	--		1
Benzene	0.394	0.200	--	1.26	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.463	0.200	--	1.74	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-10

Date Collected: 01/12/23 16:18

Client ID: OA-1-20230112

Date Received: 01/13/23

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	94		60-140



Project Name: USAI LIGHTING**Project Number:** 14.4337**Lab Number:** L2302299**Report Date:** 01/24/23**SAMPLE RESULTS**

Lab ID: L2302299-10

Client ID: OA-1-20230112

Sample Location: 1126 RIVER ROAD NEW WINDSOR, NY

Date Collected: 01/12/23 16:18

Date Received: 01/13/23

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 17:41

Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140



Project Name: USAI LIGHTING

Lab Number: L2302299

Project Number: 14.4337

Report Date: 01/24/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/21/23 15:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1735896-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: USAI LIGHTING

Lab Number: L2302299

Project Number: 14.4337

Report Date: 01/24/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/21/23 15:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1735896-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: USAI LIGHTING

Lab Number: L2302299

Project Number: 14.4337

Report Date: 01/24/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 01/21/23 15:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-10 Batch: WG1735896-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: USAI LIGHTING

Lab Number: L2302299

Project Number: 14.4337

Report Date: 01/24/23

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/21/23 16:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 06-10 Batch: WG1735897-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1735896-3								
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	87		-		70-130	-		
Freon-114	90		-		70-130	-		
Vinyl chloride	83		-		70-130	-		
1,3-Butadiene	85		-		70-130	-		
Bromomethane	86		-		70-130	-		
Chloroethane	82		-		70-130	-		
Ethanol	85		-		40-160	-		
Vinyl bromide	80		-		70-130	-		
Acetone	97		-		40-160	-		
Trichlorofluoromethane	93		-		70-130	-		
Isopropanol	96		-		40-160	-		
1,1-Dichloroethene	91		-		70-130	-		
Tertiary butyl Alcohol	92		-		70-130	-		
Methylene chloride	91		-		70-130	-		
3-Chloropropene	96		-		70-130	-		
Carbon disulfide	85		-		70-130	-		
Freon-113	92		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	89		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1735896-3								
Ethyl Acetate	105		-		70-130	-		
Chloroform	94		-		70-130	-		
Tetrahydrofuran	94		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
n-Hexane	94		-		70-130	-		
1,1,1-Trichloroethane	107		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	108		-		70-130	-		
Cyclohexane	93		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	106		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	92		-		70-130	-		
2,2,4-Trimethylpentane	96		-		70-130	-		
Heptane	106		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
4-Methyl-2-pentanone	111		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	80		-		70-130	-		
2-Hexanone	93		-		70-130	-		
Dibromochloromethane	91		-		70-130	-		
1,2-Dibromoethane	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 Batch: WG1735896-3								
Tetrachloroethene	83		-		70-130	-		
Chlorobenzene	84		-		70-130	-		
Ethylbenzene	87		-		70-130	-		
p/m-Xylene	88		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	84		-		70-130	-		
1,1,2,2-Tetrachloroethane	91		-		70-130	-		
o-Xylene	90		-		70-130	-		
4-Ethyltoluene	85		-		70-130	-		
1,3,5-Trimethylbenzene	86		-		70-130	-		
1,2,4-Trimethylbenzene	90		-		70-130	-		
Benzyl chloride	95		-		70-130	-		
1,3-Dichlorobenzene	82		-		70-130	-		
1,4-Dichlorobenzene	84		-		70-130	-		
1,2-Dichlorobenzene	88		-		70-130	-		
1,2,4-Trichlorobenzene	86		-		70-130	-		
Hexachlorobutadiene	88		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06-10 Batch: WG1735897-3								
Vinyl chloride	78		-		70-130	-		25
1,1-Dichloroethene	87		-		70-130	-		25
cis-1,2-Dichloroethene	84		-		70-130	-		25
1,1,1-Trichloroethane	97		-		70-130	-		25
Carbon tetrachloride	100		-		70-130	-		25
Trichloroethene	85		-		70-130	-		25
Tetrachloroethene	75		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1735896-5 QC Sample: L2302299-05 Client ID: VI-5-20230112						
Dichlorodifluoromethane	0.489	0.488	ppbV	0		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		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
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	ND	ND	ppbV	NC		25
Trichlorofluoromethane	0.216	0.218	ppbV	1		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1735896-5 QC Sample: L2302299-05 Client ID: VI-5-20230112						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	0.432	0.449	ppbV	4		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	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: USAI LIGHTING

Project Number: 14.4337

Lab Number: L2302299

Report Date: 01/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1735896-5 QC Sample: L2302299-05 Client ID: VI-5-20230112						
Toluene	ND	ND	ppbV	NC		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	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
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	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
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: USAI LIGHTING

Serial_No:01242312:50
Lab Number: L2302299

Project Number: 14.4337

Report Date: 01/24/23

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 (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2302299-01	VI-3-20230112	01768	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	9.9	1
L2302299-01	VI-3-20230112	593	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-8.6	-	-	-	-
L2302299-02	VI-2-20230112	01529	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.7	7
L2302299-02	VI-2-20230112	3380	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-8.8	-	-	-	-
L2302299-03	VI-1-20230112	01948	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.5	5
L2302299-03	VI-1-20230112	3296	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-7.7	-	-	-	-
L2302299-04	VI-4-20230112	01648	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.4	4
L2302299-04	VI-4-20230112	654	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-7.0	-	-	-	-
L2302299-05	VI-5-20230112	01447	Flow 4	01/12/23	411611		-	-	-	Pass	10.0	9.4	6
L2302299-05	VI-5-20230112	3468	6.0L Can	01/12/23	411611	L2272546-03	Pass	-29.3	-7.4	-	-	-	-
L2302299-06	IA-3-20230112	01671	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.2	2
L2302299-06	IA-3-20230112	3335	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-7.6	-	-	-	-
L2302299-07	IA-2-20230112	02067	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.3	3
L2302299-07	IA-2-20230112	2054	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-7.8	-	-	-	-
L2302299-08	IA-1-20230112	01665	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.6	6

Project Name: USAI LIGHTING

Project Number: 14.4337

Serial_No:01242312:50
Lab Number: L2302299

Report Date: 01/24/23

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 (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2302299-08	IA-1-20230112	2629	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-6.9	-	-	-	-
L2302299-09	IA-4-20230112	01426	Flow 4	01/12/23	411611		-	-	-	Pass	10.0	10.0	0
L2302299-09	IA-4-20230112	616	6.0L Can	01/12/23	411611	L2300025-04	Pass	-29.3	-6.9	-	-	-	-
L2302299-10	OA-1-20230112	01512	Flow 4	01/11/23	411279		-	-	-	Pass	10.0	10.3	3
L2302299-10	OA-1-20230112	2903	6.0L Can	01/11/23	411279	L2300025-03	Pass	-29.9	-6.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 12/27/22 19:45
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2272546**Project Number:** CANISTER QC BAT**Report Date:** 01/24/23**Air Canister Certification Results**

Lab ID: L2272546-03

Date Collected: 12/24/22 08:00

Client ID: CAN 2929 SHELF 46

Date Received: 12/27/22

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 Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	113		60-140
chlorobenzene-d5	106		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 12/27/22 19:45
Analyst: TJS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
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 Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2272546
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2272546-03
Client ID: CAN 2929 SHELF 46
Sample Location:

Date Collected: 12/24/22 08:00
Date Received: 12/27/22
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 Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	109		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	106		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 01/03/23 19:17
Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2300025**Project Number:** CANISTER QC BAT**Report Date:** 01/24/23**Air Canister Certification Results**

Lab ID: L2300025-03

Date Collected: 12/30/22 18:00

Client ID: CAN 2323 SHELF 40

Date Received: 01/03/23

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 Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/03/23 19:17
Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
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 Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-03
Client ID: CAN 2323 SHELF 40
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
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 Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 01/03/23 19:55
Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2300025**Project Number:** CANISTER QC BAT**Report Date:** 01/24/23**Air Canister Certification Results**

Lab ID: L2300025-04

Date Collected: 12/30/22 18:00

Client ID: CAN 992 SHELF 41

Date Received: 01/03/23

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 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	96		60-140
chlorobenzene-d5	98		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/03/23 19:55
Analyst: JMB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2300025
Report Date: 01/24/23

Air Canister Certification Results

Lab ID: L2300025-04
Client ID: CAN 992 SHELF 41
Sample Location:

Date Collected: 12/30/22 18:00
Date Received: 01/03/23
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 Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2300025**Project Number:** CANISTER QC BAT**Report Date:** 01/24/23**Air Canister Certification Results**

Lab ID: L2300025-04

Date Collected: 12/30/22 18:00

Client ID: CAN 992 SHELF 41

Date Received: 01/03/23

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 Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140



Project Name: USAI LIGHTING**Lab Number:** L2302299**Project Number:** 14.4337**Report Date:** 01/24/23**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(*)
L2302299-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2302299-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2302299-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2302299-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2302299-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2302299-06A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2302299-07A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2302299-08A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2302299-09A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2302299-10A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

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: Data Usability Report



Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- 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: USAI LIGHTING
Project Number: 14.4337

Lab Number: L2302299
Report Date: 01/24/23

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

Alpha Analytical 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 Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical 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 Alpha Analytical.

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.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **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-D, 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), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



AIR ANALYSIS

PAGE 1 OF 1

Serial_No:01242312:50

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Drive
Latham, NY 12110
Phone: 518-786-7400
Fax:
Email: J.McIver@ctmale.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: USAI Lighting
Project Location: 1126 River Road
New Windsor, NY
Project #: 14.4337
Project Manager: Rosaura Andujar-Medell
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd in Lab: 1/14/23

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☒ Additional Deliverables:
ASB Cat B
Report to: (if different than Project Manager)

ALPHA Job #: L2302299

Billing Information

☒ Same as Client info PO #: 14.4337

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

NY

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA 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 APH S	Fixed C	Sulfides & Sulfides &		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
02299-01	VI-3-20230112	1/12/23	10:15	16:55	-29.32	-8.20	SV	ML	6L	593	01768	✓						
-02	VI-2-20230112		10:10	16:40	-30.43	-9.24	SV	ML	6L	3380	01529	✓						
-03	VI-1-20230112		10:05	16:22	-28.14	-7.93	SV	ML	6L	3296	01948	✓						
-04	VI-4-20230112		09:35	17:10	-30.25	-7.18	SV	ML	6L	654	01648	✓						
-05	VI-5-20230112		09:55	17:25	-30.51	-7.92	SV	ML	6L	3468	01447	✓						
-06	IA-3-20230112		10:16	17:00	-30.48	-8.19	AA	ML	6L	3335	01671	✓						
-07	IA-2-20230112		10:09	16:38	-30.52	-8.70	AA	ML	6L	2054	02067	✓						
-08	IA-1-20230112		09:46	17:13	-30.32	-7.51	AA	ML	6L	2629	01665	✓						
-09	IA-4-20230112		09:50	17:24	-30.35	-7.81	AA	ML	6L	616	01426	✓						
-10	OA-1-20230112		09:41	16:18	-30.41	-8.58	AA	ML	6L	2903	01512	✓						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

6L
Summa

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 Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

[Signature]
1/13/23 12:50
1/13/23 19:10
1-13-23

1/13/23 12:50
1/13/23 19:10
1-13-23

ML (AAL)
1/13/23 19:10
1-13-23

1-13-23 12:50
1-13-23 21:00
1/13/23 23:40

1/14/23 03:10

1/14/23 03:10

C.T. MALE ASSOCIATES

April 28, 2023

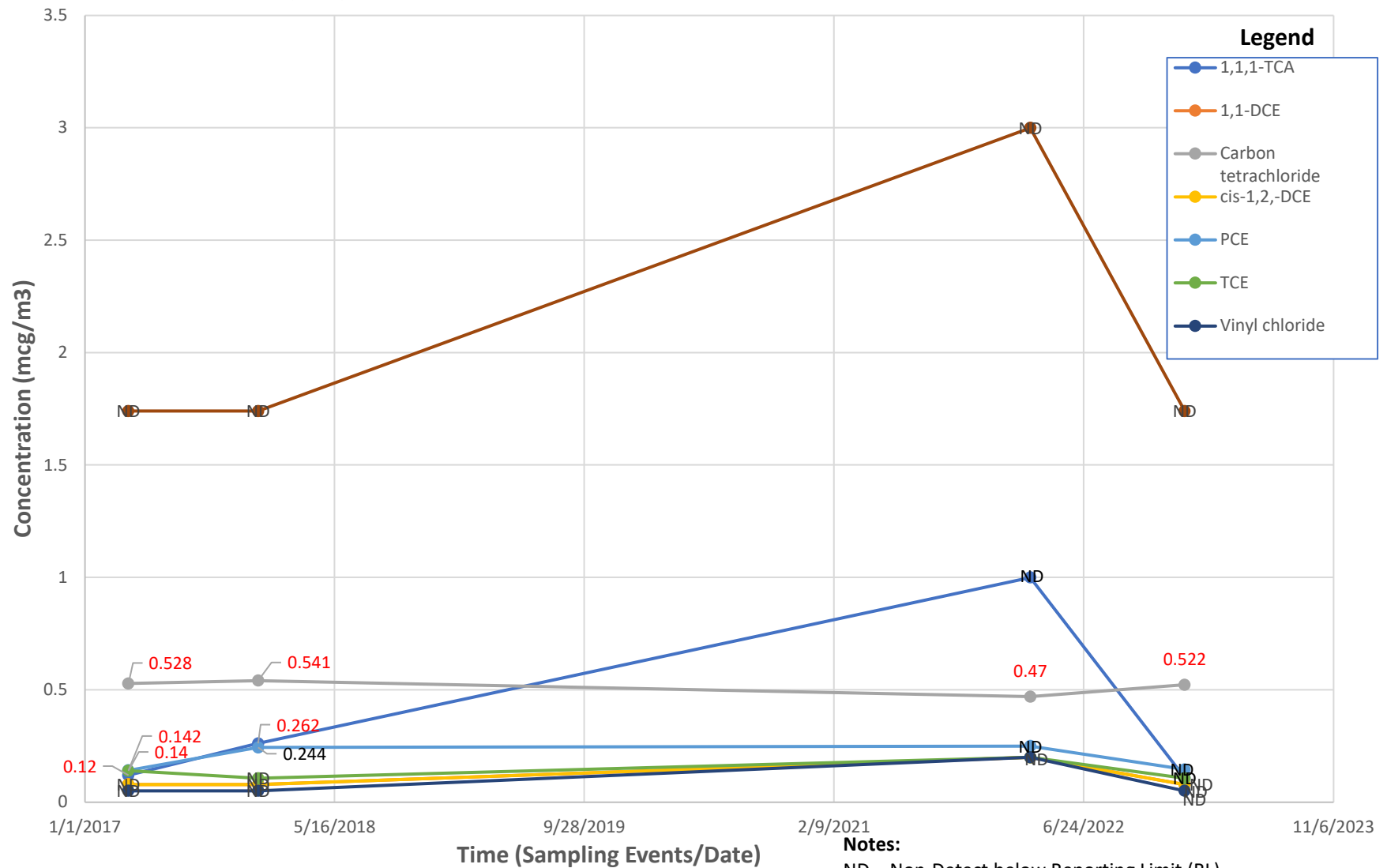
Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

Page - 25

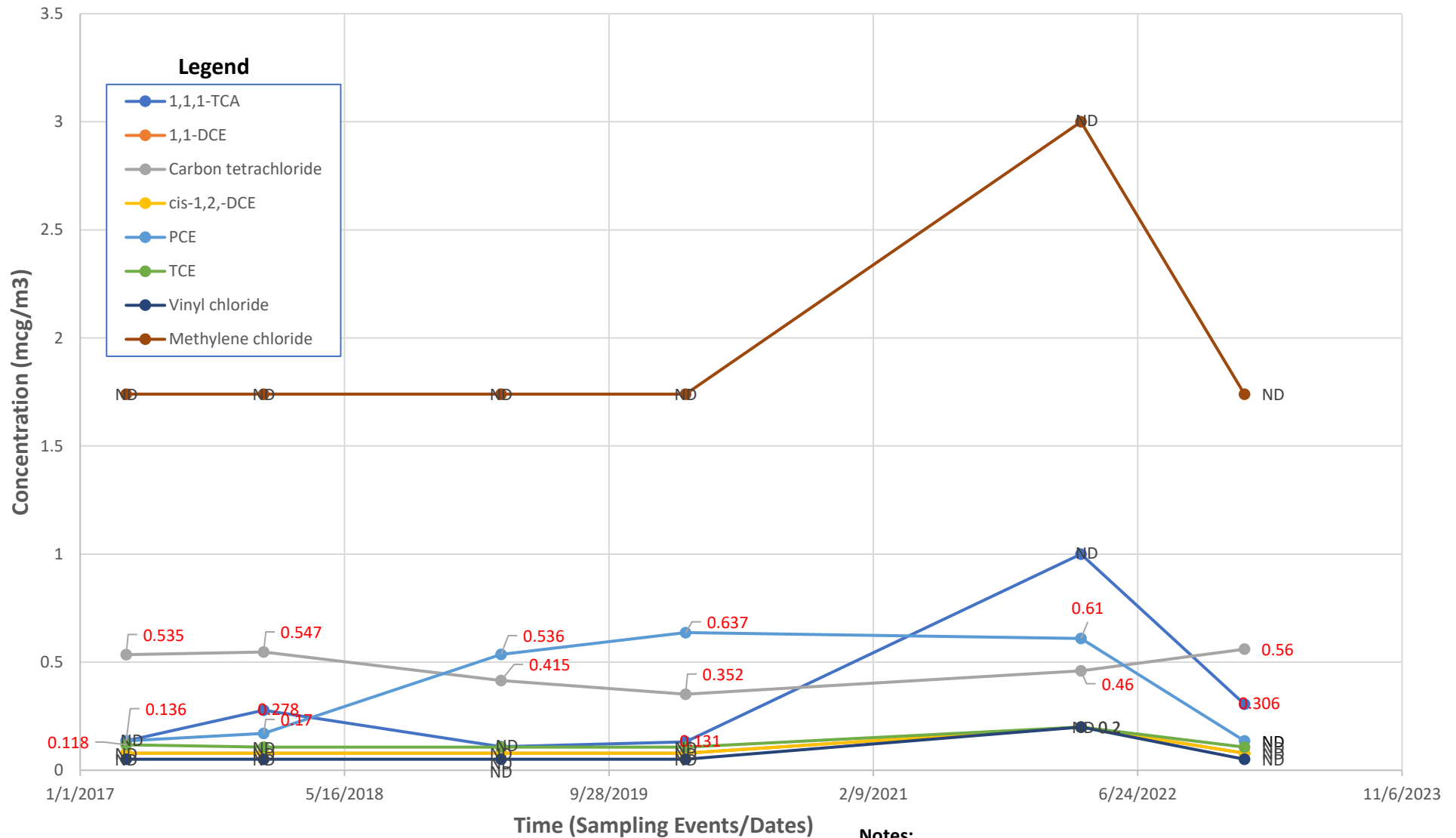
Attachment E: Trend Analyses

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022
Sampling Location IA-1 (AREA 4 - ADJACENT TO 2-STORY OFFICE BUILDING)



Notes:
ND = Non-Detect below Reporting Limit (RL)
Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location IA-2 (AREA 3A - PRODUCTION AREA)

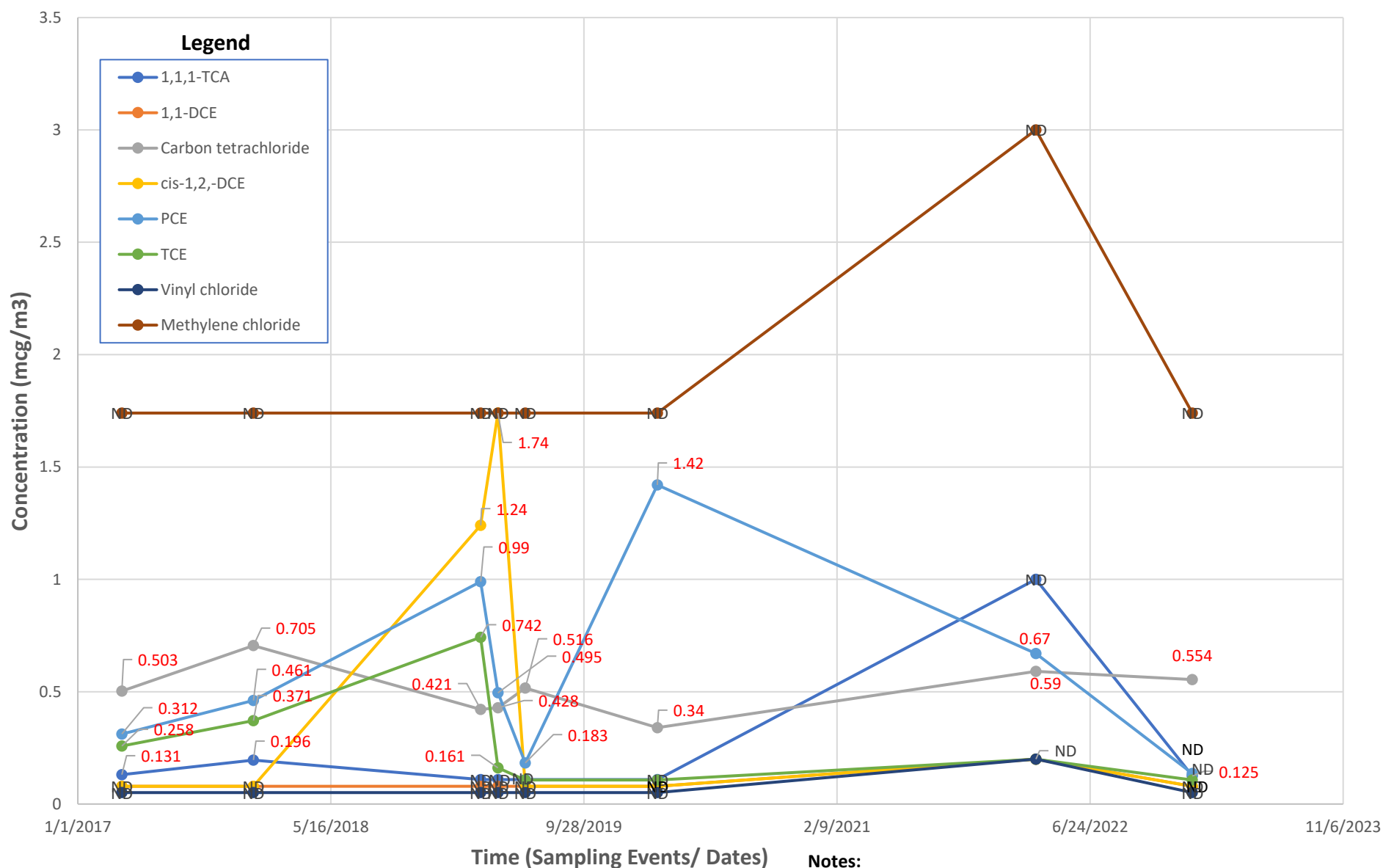


Notes:

ND = Non-Detect below Reporting Limit (RL)

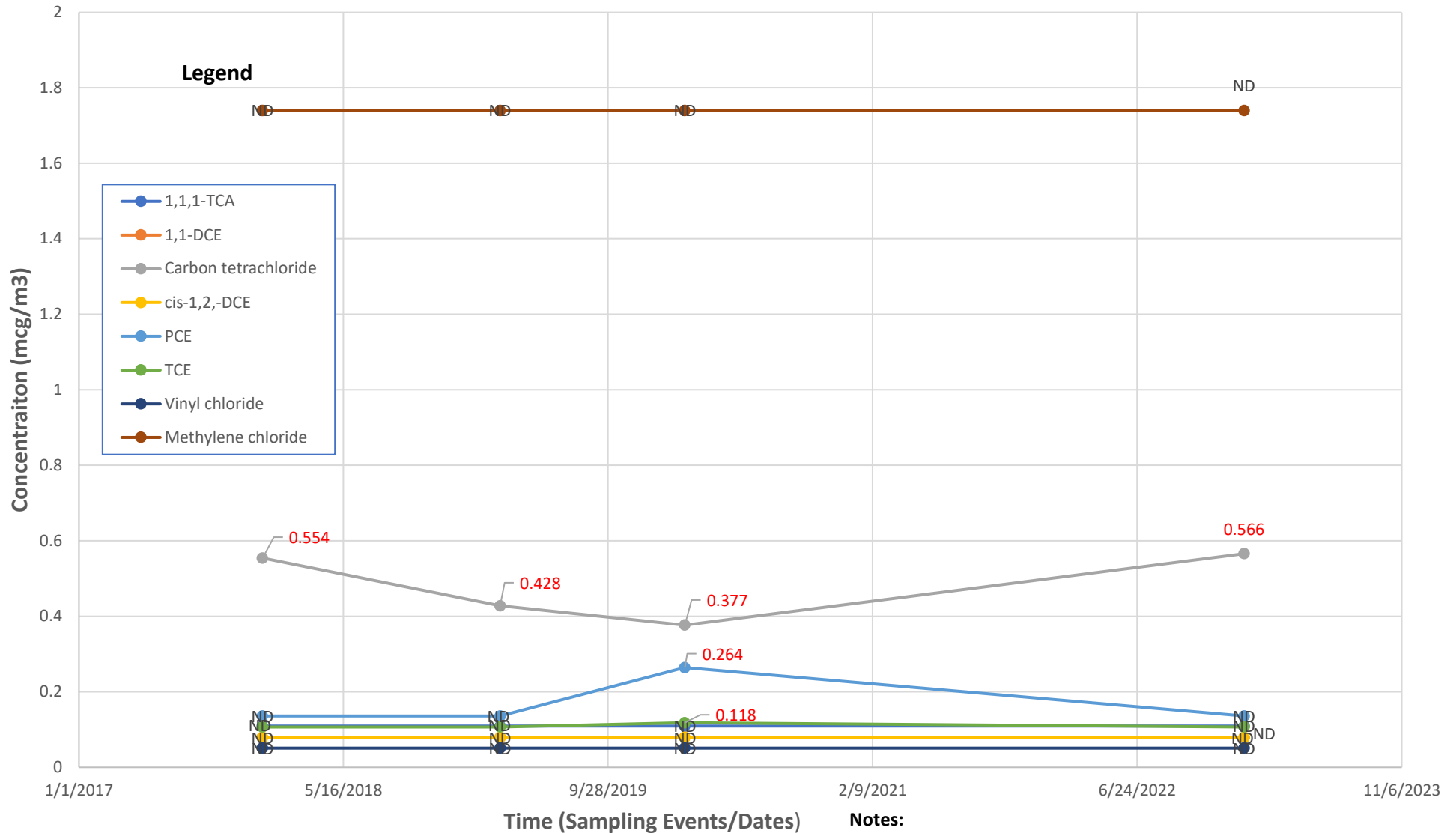
Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location IA-3 (AREA 2 - OFFICE SPACE IN PRODUCTION AREA)



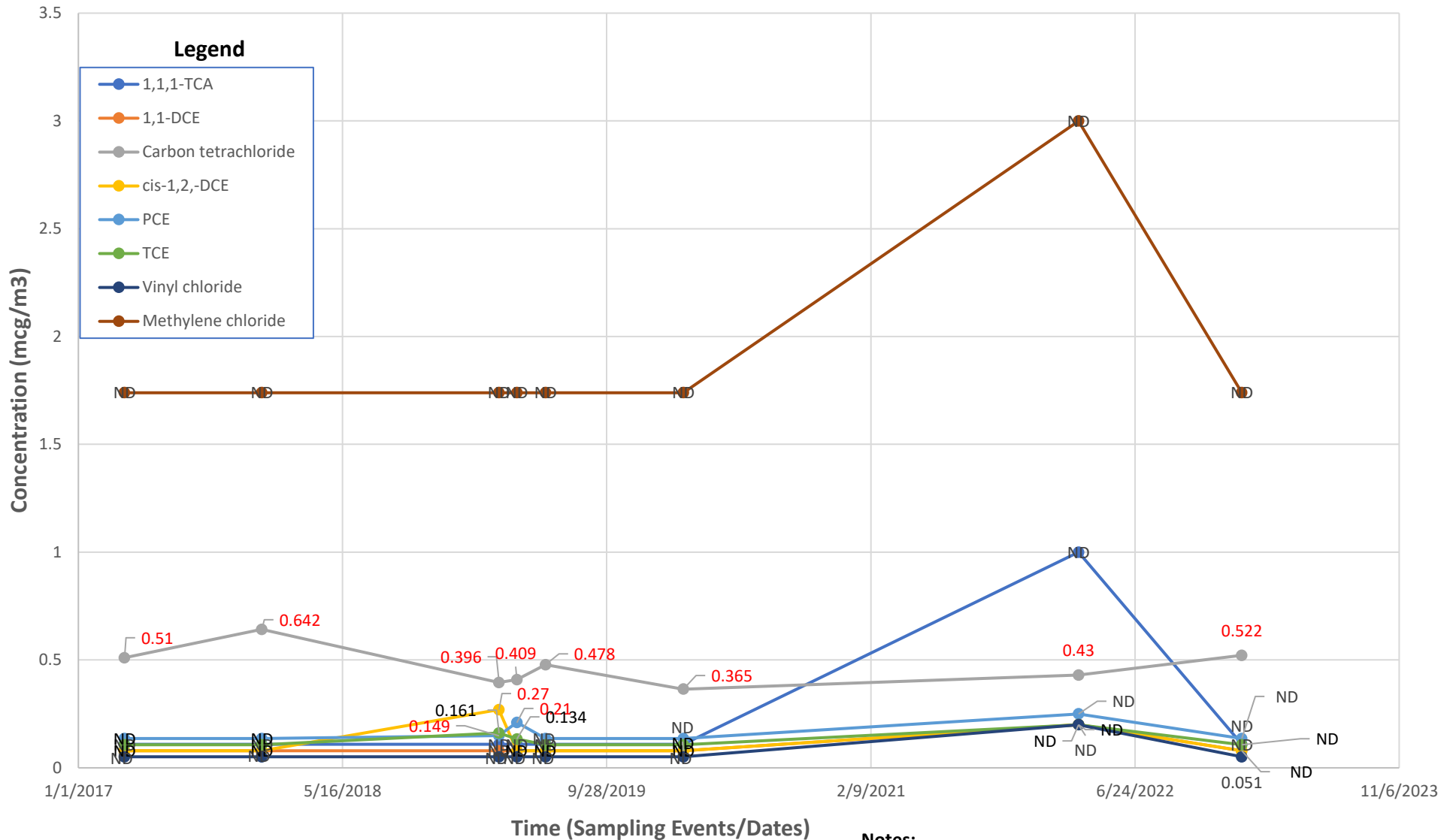
Notes:
 ND = Non-Detect below Reporting Limit (RL)
 Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2020
Sampling Location IA-4 (AREA 8 - 2-STORY OFFICE BUILDING)



Notes:
ND = Non-Detect below Reporting Limit (RL)
Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location OA-1 (OUTDOOR AIR)

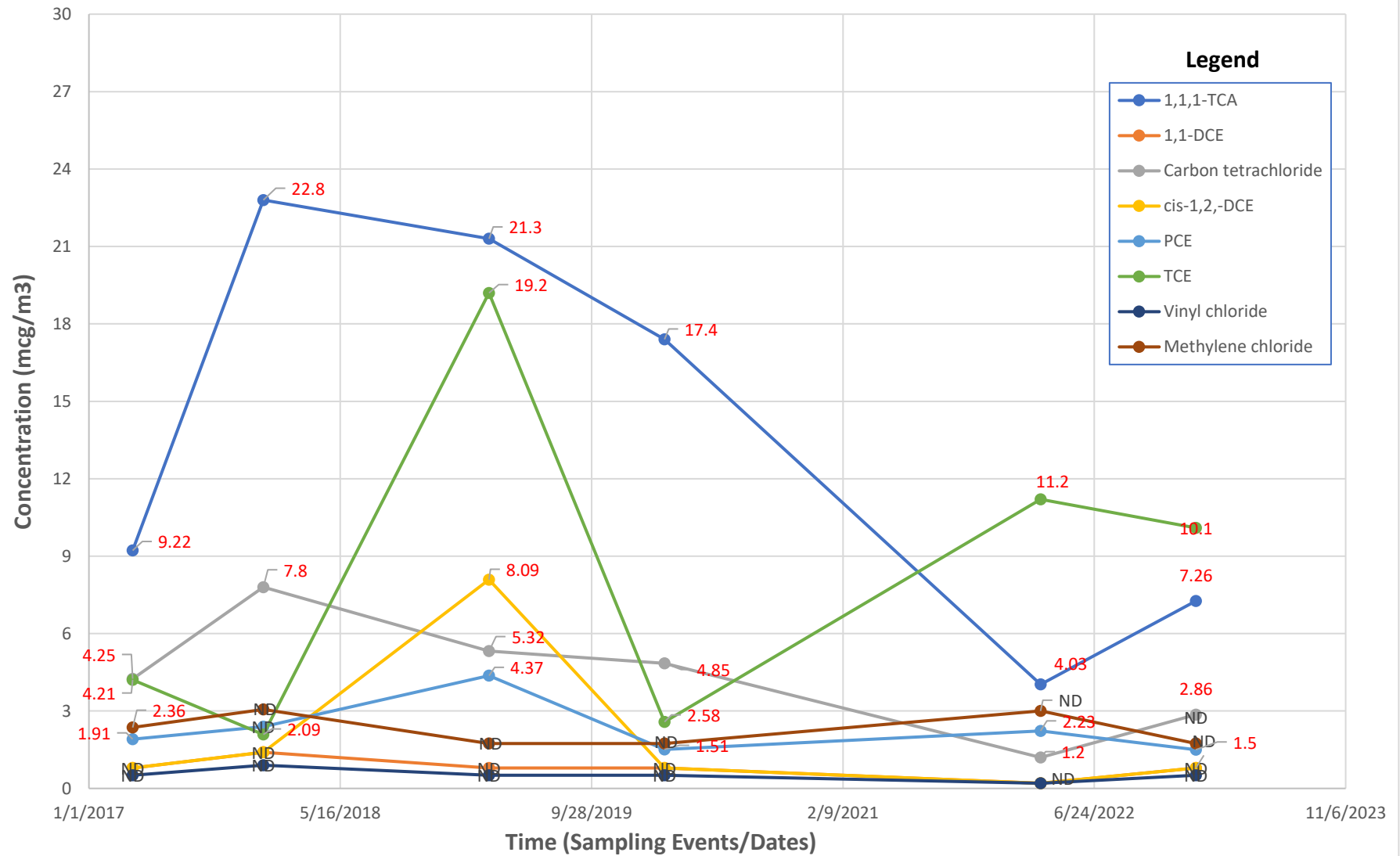


Notes:

ND = Non-Detect below Reporting Limit (RL)

Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location VI-1 (AREA 3A - PRODUCTION AREA)

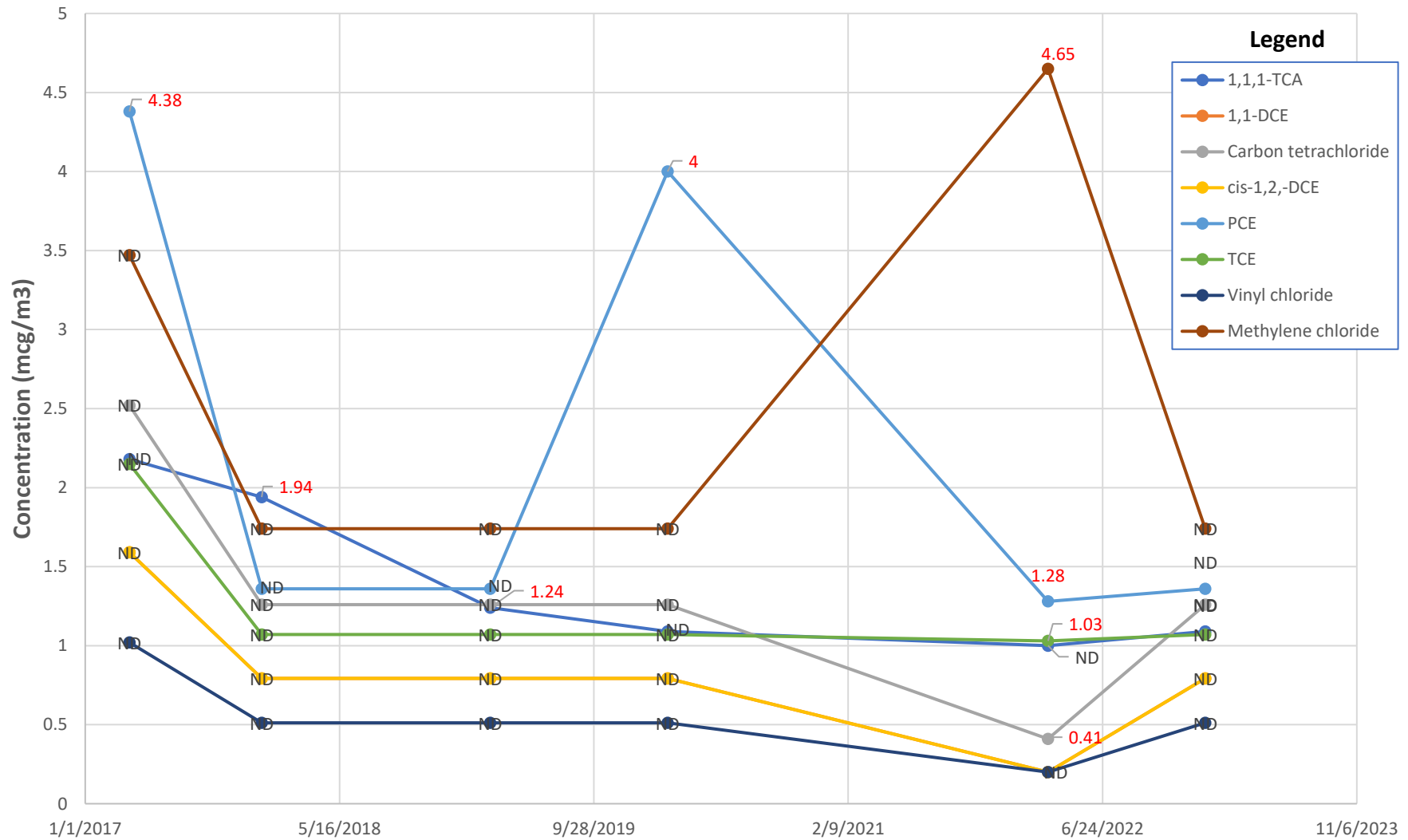


Notes:

ND = Non-Detect below Reporting Limit (RL)

Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location VI-2 (AREA 3A - PRODUCTION AREA)

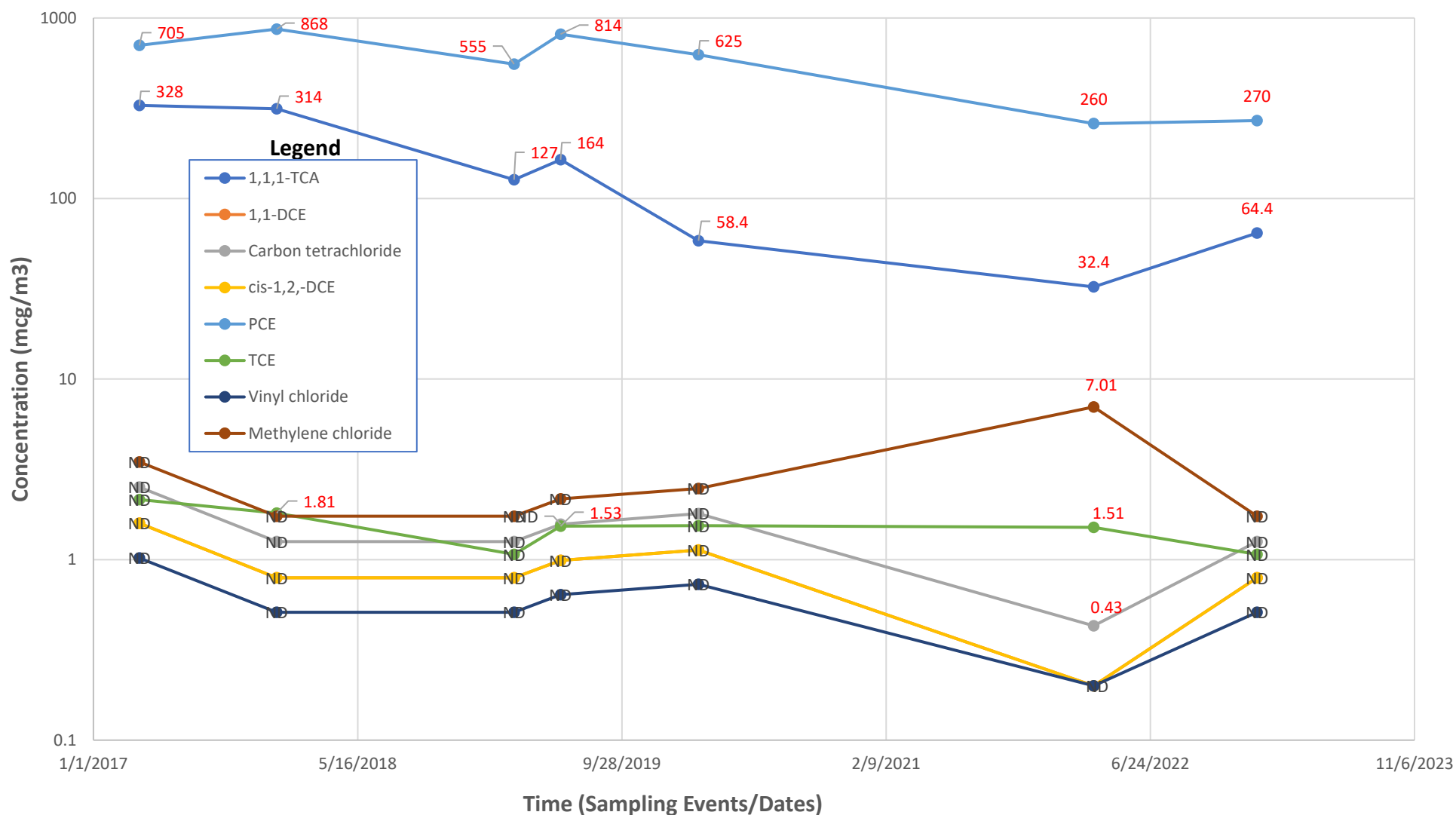


Notes:

ND = Non-Detect below Reporting Limit (RL)

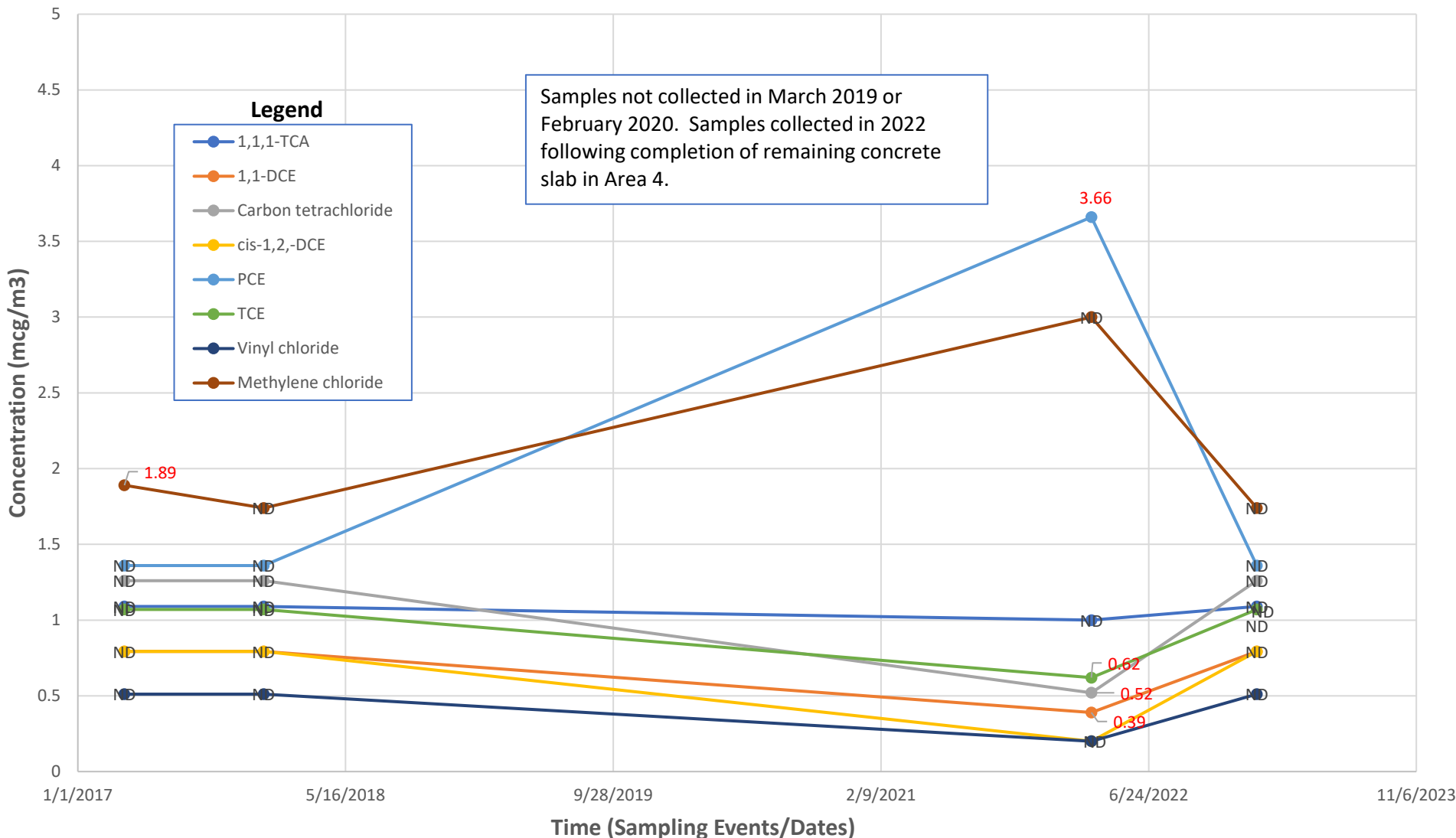
Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022 Sampling Location VI-3 (AREA 2 - OFFICE SPACE IN PRODUCTION AREA)



Notes:
 ND = Non-Detect below Reporting Limit (RL)
 Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2022
Sampling Location VI-4 (AREA 4 - ADJACENT TO 2-STORY OFFICE BUILDING)

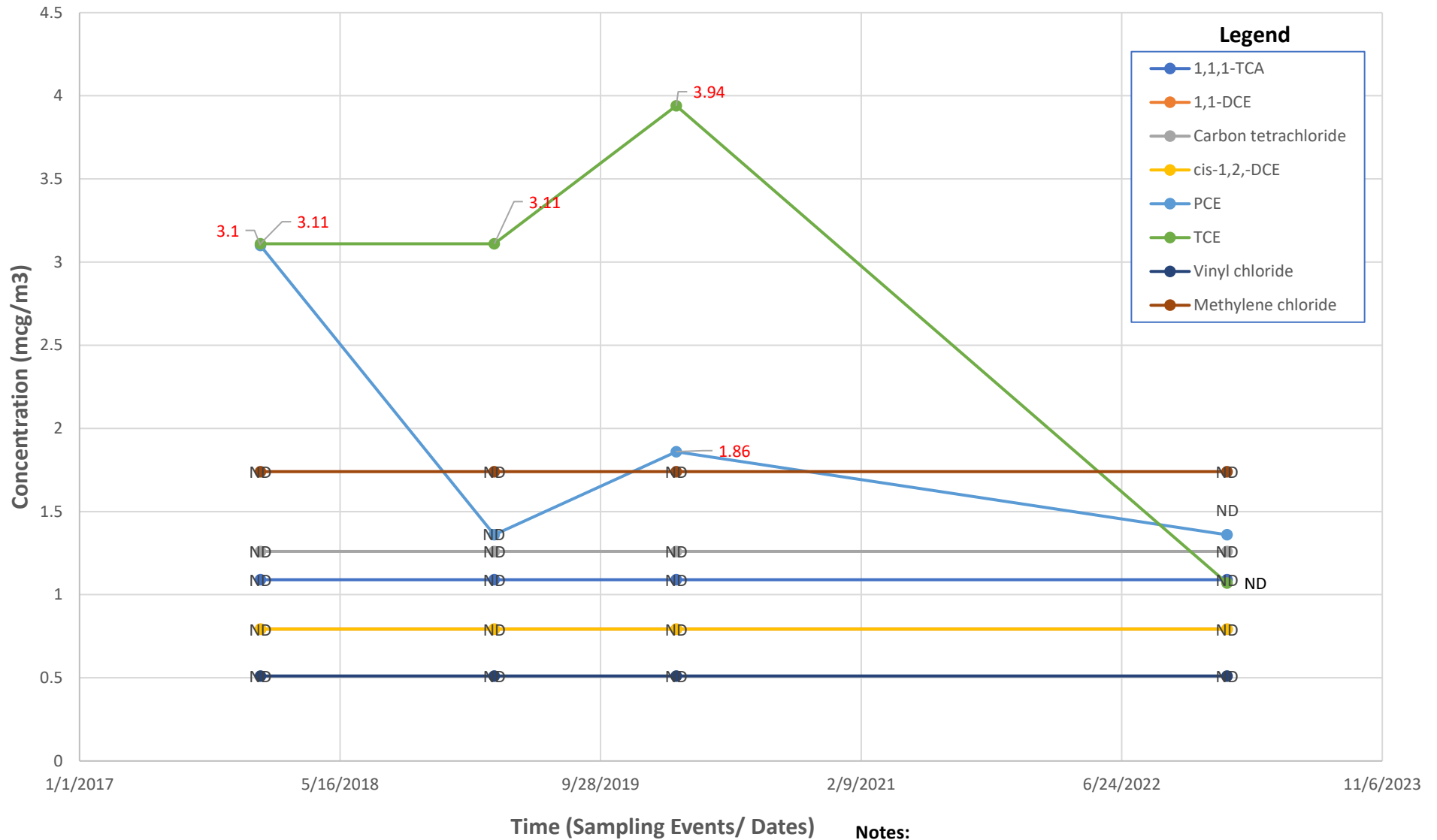


Notes:

ND = Non-Detect below Reporting Limit (RL)

Concentrations in red indicate detected concentrations above RL.

USAI Lighting Facility Soil Vapor/ Air Data 2017-2020 Sampling Location VI-5 (AREA 8 - 2-STORY OFFICE BUILDING)

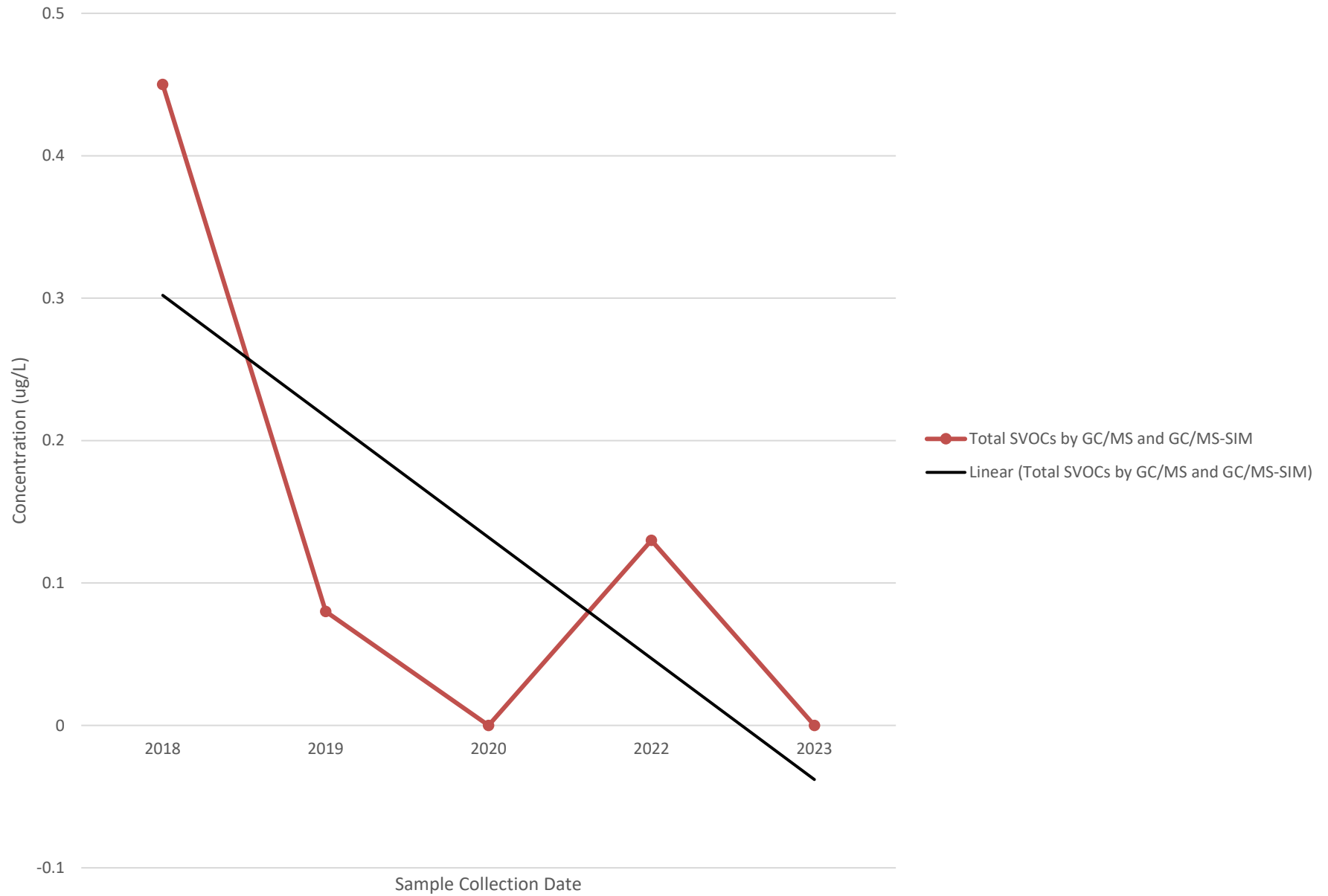


Notes:

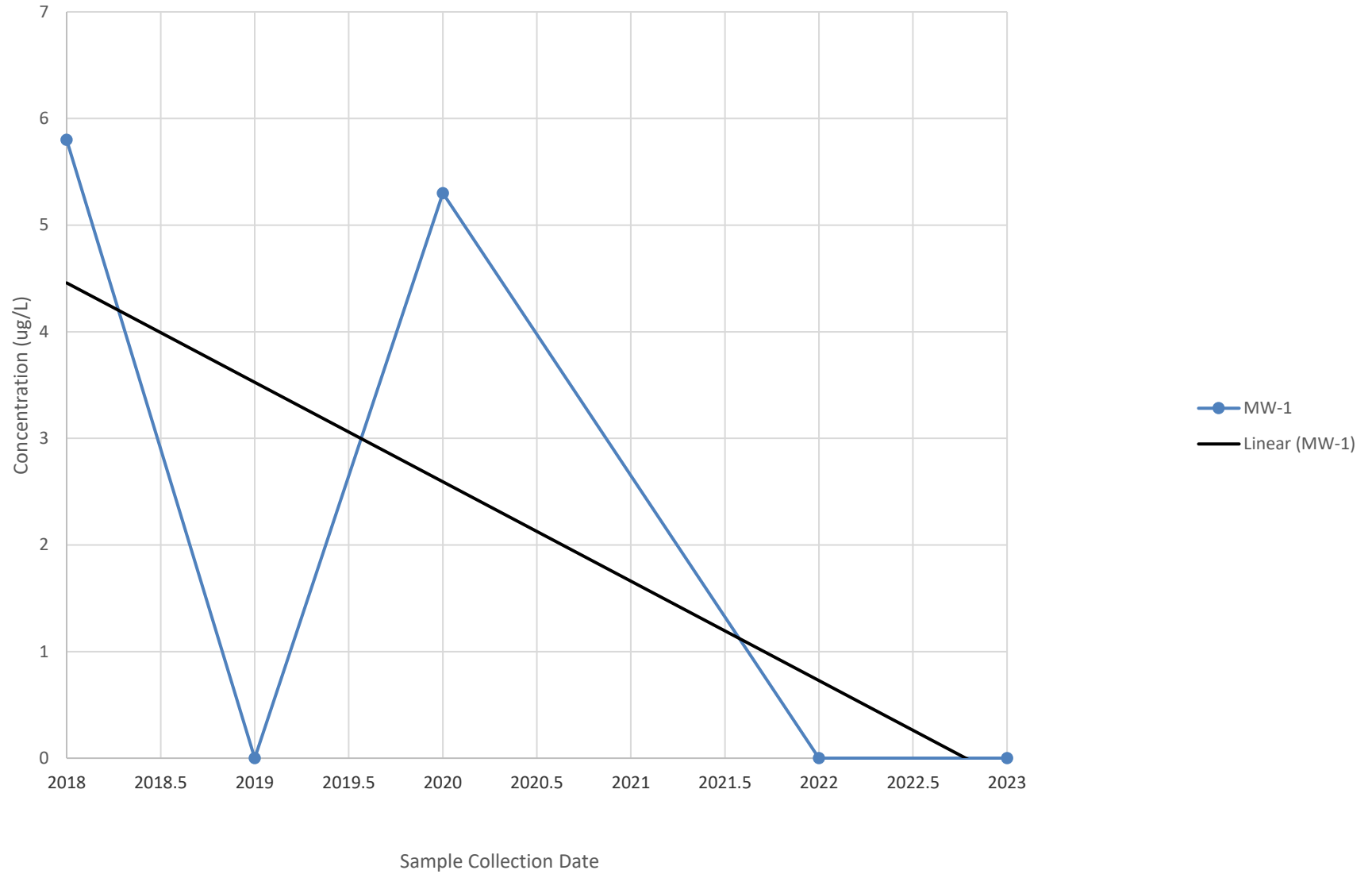
ND = Non-Detect below Reporting Limit (RL)

Concentrations in red indicate detected concentrations above RL.

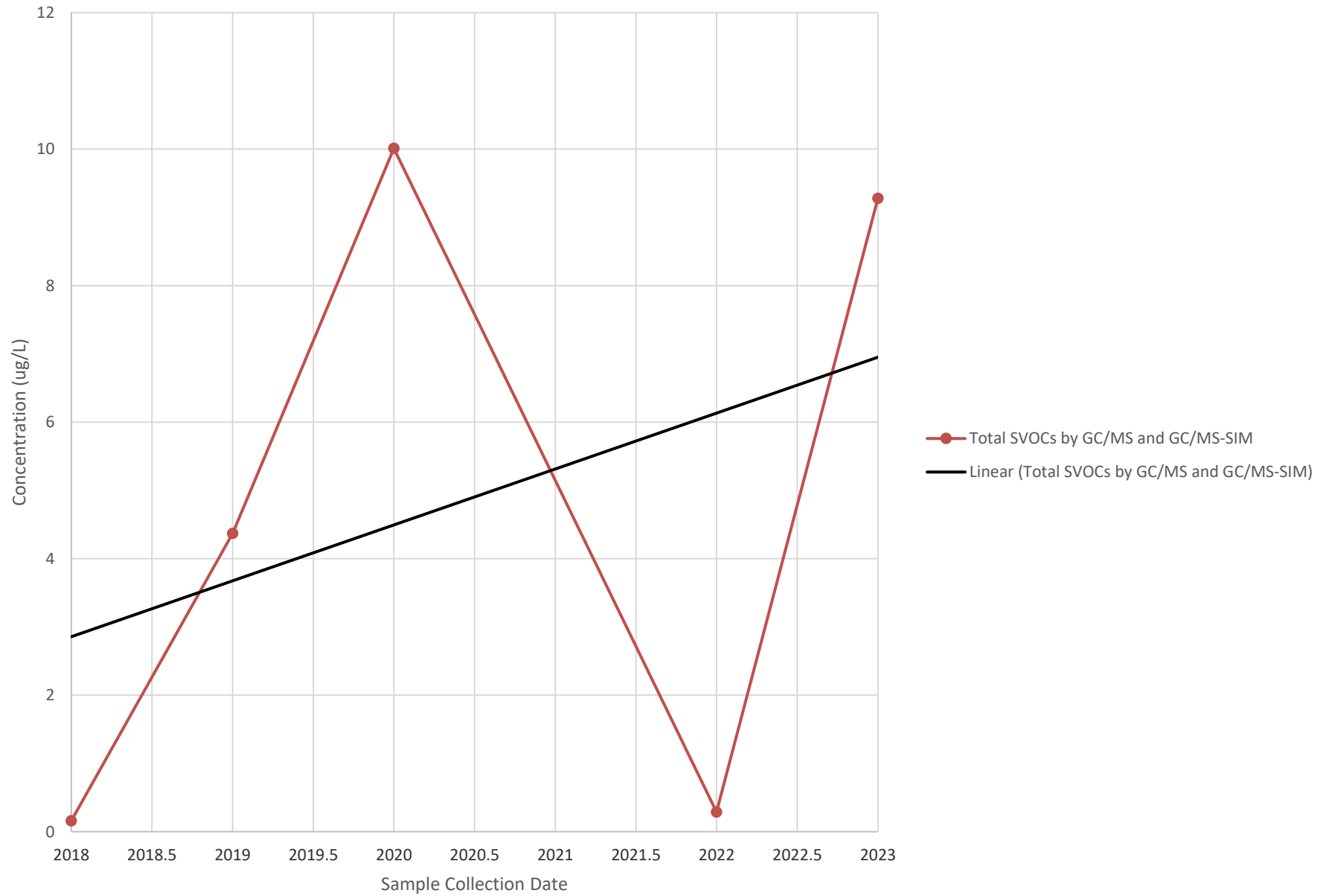
MW-1 Total SVOCs by GC/MS and GC/MS-SIM



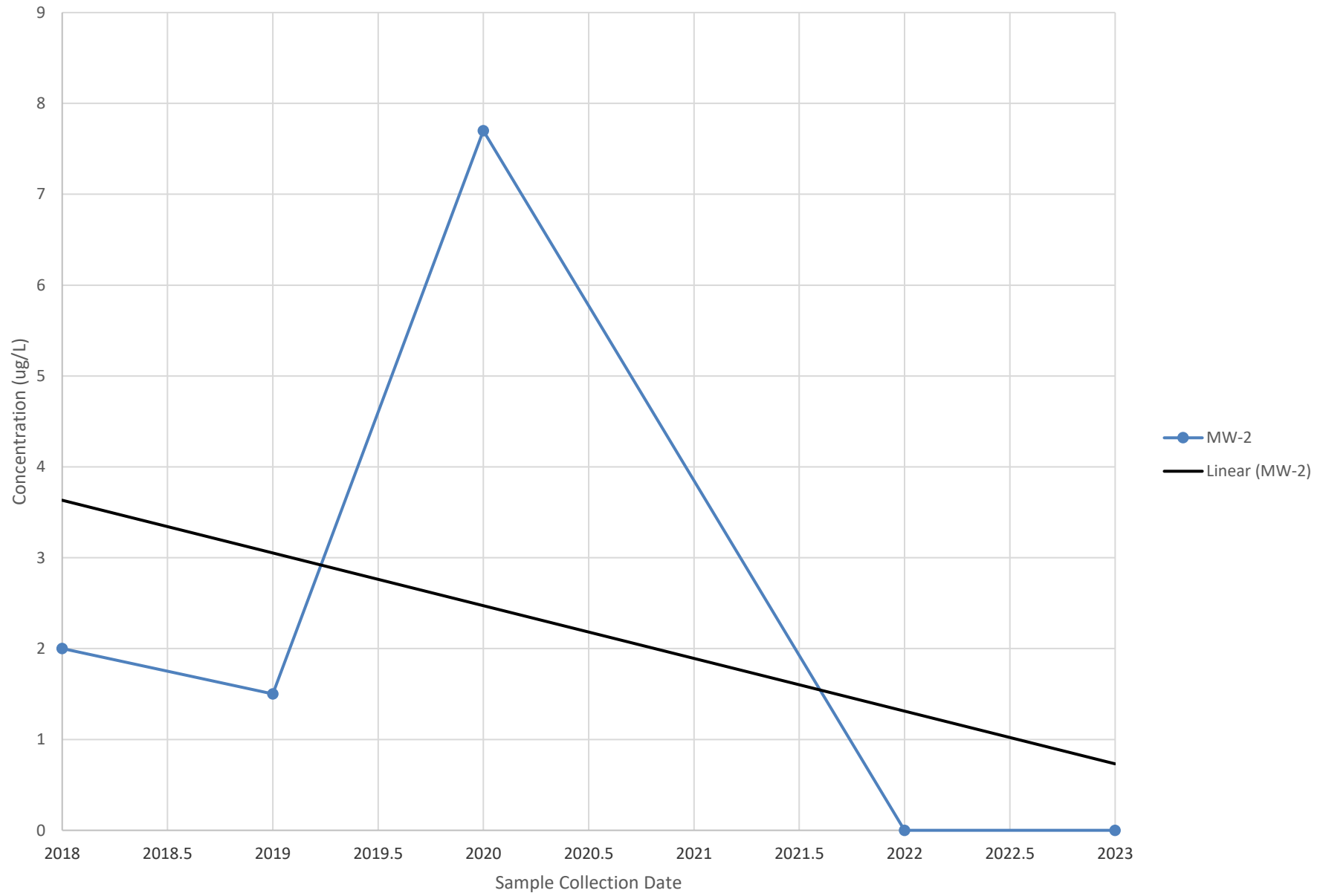
MW-1 Total VOCs



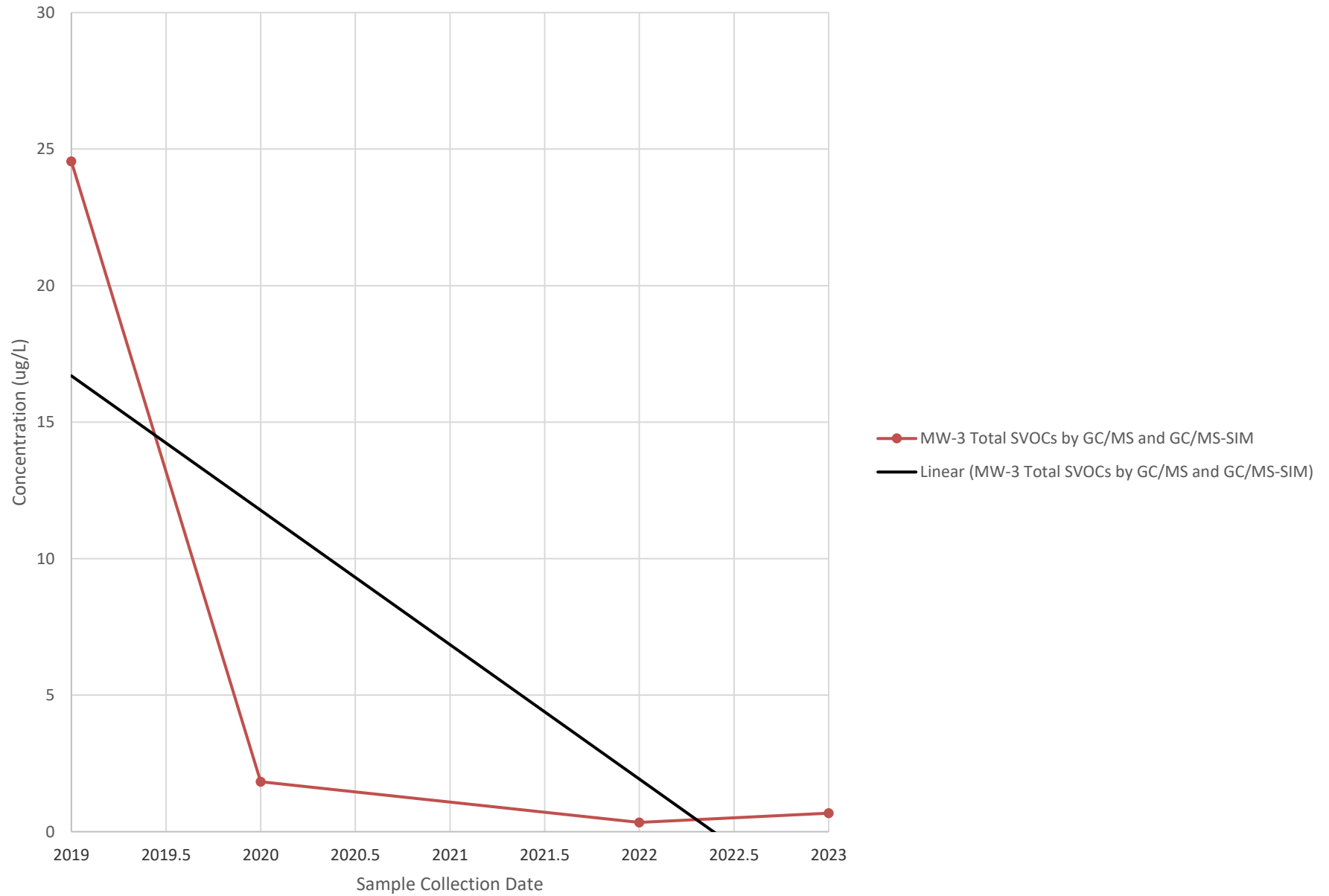
MW-2 Total SVOCs by GC/MS and GC/MS-SIM



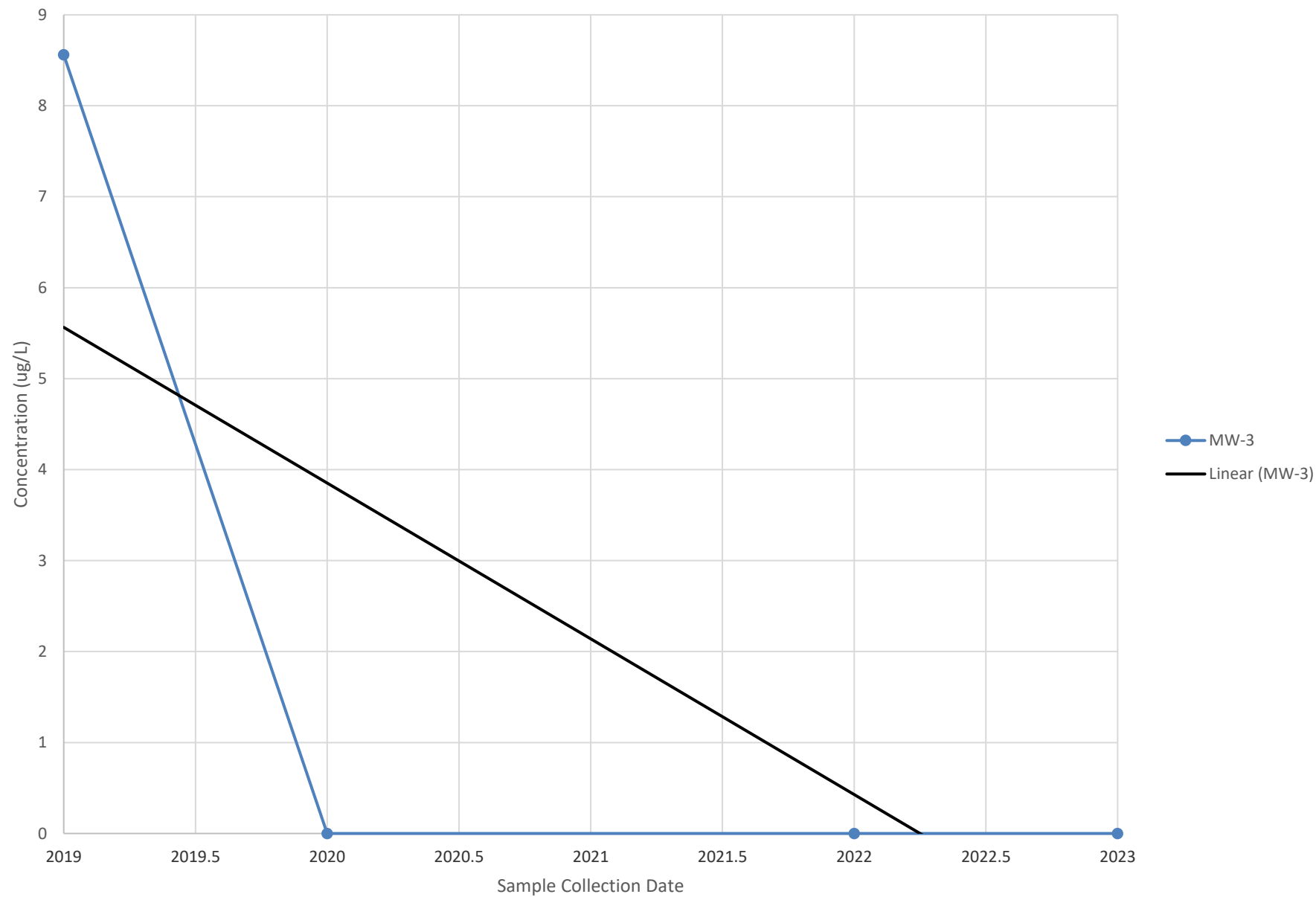
MW-2 Total VOCs



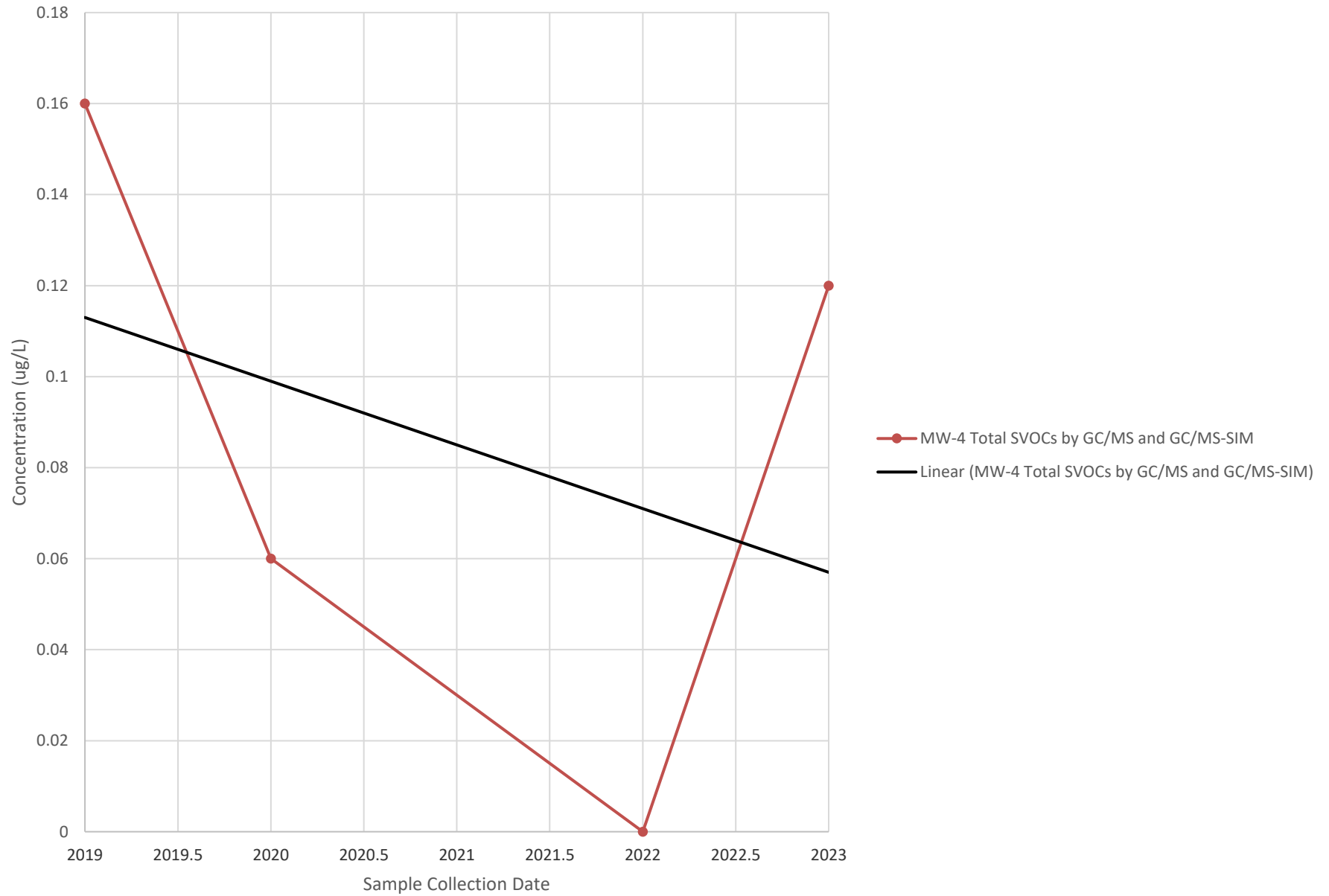
MW-3 Total SVOCs by GC/MS and GC/MS-SIM



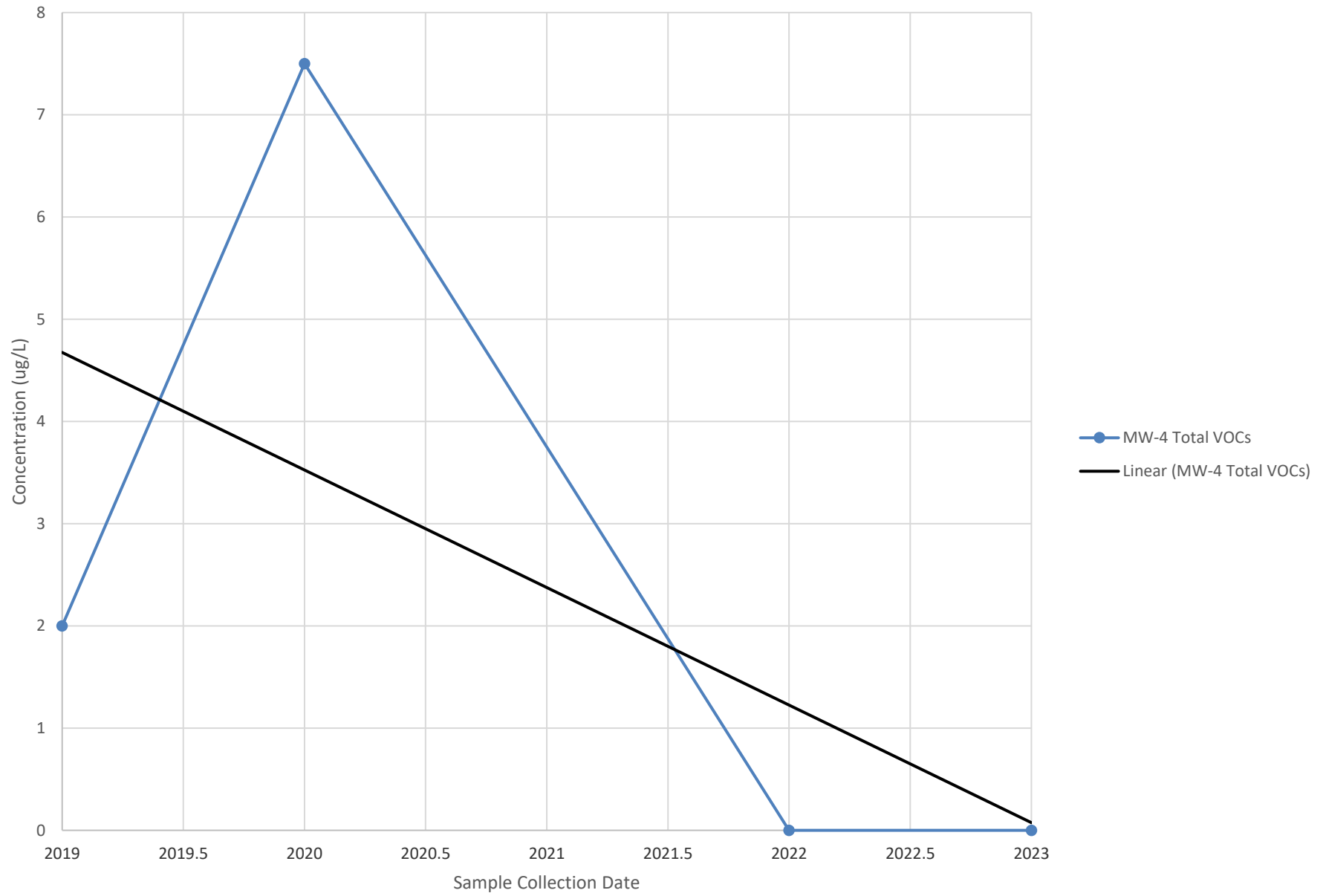
MW-3 Total VOCs



MW-4 Total SVOCs by GC/MS and GC/MS-SIM



MW-4 Total VOCs



C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

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Attachment F: SVI – Structure Sampling Building Questionnaire

Soil Vapor Intrusion - Structure Sampling Building Questionnaire

Structure ID: _____

BCP site no. C336087

Site No.: 14.4337Site Name: USA1 LightingDate: 1/12/2023Time: 12:30Structure Address: 1126 River Road, New Windsor, NYPreparer's Name & Affiliation: Mary Loughlin, Geologist, C.T. Male AssociatesResidential? ☐ Yes ☒ No Owner Occupied? ☒ Yes ☐ No Owner Interviewed? ☐ Yes ☒ NoCommercial? ☐ Yes ☒ No Industrial? ☒ Yes ☐ No Mixed Uses? ☐ Yes ☒ NoIdentify all non-residential use(s): Light fixture manufacturing/ assembly/ packagingOwner Name: USA1 Lighting Owner Phone: (845) 565 - 8500

Secondary Owner Phone: () - -

Owner Address (if different): Same as aboveOccupant Name: Mike Griffin Occupant Phone: (845) 565 - 8500 x 182Plant manager/
Site contact

Secondary Occupant Phone: () - -

Number & Age of All Persons Residing at this Location: UnknownAdditional Owner/Occupant Information: 50-100 persons work at this facilityDescribe Structure (style, number floors, size): 2-story industrial manufacturing building, Approximately 4,000 sq. ft manufacturing space concrete block & brick 1,000 sq. ft Office SpacesApproximate Year Built: Unknown Is the building Insulated? ☒ Yes ☐ NoLowest level: ☒ Slab-on-grade ☐ Basement ☐ CrawlspaceDescribe Lowest Level (finishing, use, time spent in space): partial office space and partial warehouse/ manufacturing plant areaFloor Type: ☒ Concrete Slab ☐ Dirt ☐ Mixed: _____Floor Condition: ☒ Good (few or no cracks) ☒ Average (some cracks) ☐ Poor (broken concrete or dirt)Sumps/Drains? ☐ Yes ☒ No Describe: None observedIdentify other floor penetrations & details: Permanent Vapor Point/vapor pins installed for SV Sampling purposes. No other known floorWall Construction: ☒ Concrete Block ☐ Poured Concrete ☒ Laid-Up Stone Brick PenetrationsIdentify any wall penetrations: N/A - unknown behind sheetrock - none observed.Identify water, moisture, or seepage: location & severity (sump, cracks, stains, etc.): Some cracks noted in the concrete floor of the manufacturing/warehouse areas near SV-3 Sample locationHeating Fuel: ☐ Oil ☒ Gas ☐ Wood ☐ Electric ☐ Other: _____Heating System: ☒ Forced Air ☐ Hot Water ☐ Other: _____Hot Water System: ☐ Combustion ☐ Electric ☐ Boilermate ☒ Other: unknown - public water supplyClothes Dryer: ☐ Electric ☐ Gas Where is dryer vented to? N/A - no dryer(s) observed on siteIf combustion occurs, describe where air is drawn from (cold air return, basement, external air, etc.): unknownFans & Vents (identify where fans/vents pull air from and where they vent/exhaust to): Air distribution located in office spaces only - above the drop ceiling & not visible

Structure Sampling - Product Inventory

Page 1 of 2

Homeowner Name & Address: USAI, 1126 River Road, New Windsor NY

Date: 1/12/23

Samplers & Company: M. Loughlin, C.T. Male Associates

Structure ID: N/A

Site Number & Name: USAI Lighting

Phone Number: _____

Make & Model of PID: Mini Rae 3000

Date of PID Calibration: 12/15/22

Identify any Changes from Original Building Questionnaire: N/A

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
Pledge Lemon clean 13.8 oz	5	water, lubricant blend, Naptha, petroleum, Nitrogen, polyethylene	0.0	Storage closet VI-3
Lysol All purpose Cleaner Lemon Breeze Scent 32 oz	26	Active ingredients: - dimethyl benzyl ammonium chloride Other ingredients (99.8%) - inactive - not listed	0.0	
Purell professional Surface disinfectant 16 oz	1	Ethyl Alcohol, isopropyl alcohol, water	0.0	
Germ's be Gone hand sanitizer gel 15 oz	6	water, isopropyl alcohol, glycerin, Carbomer, Aminomethyl propanol, Fragrance, Propylene glycol, Iso-Propyl Myristate, Aloe leaf extract, Tocopheryl Acetate (vitamin E)	0.0	
Uline antibacterial hand soap	36	Benzalkonium Chloride	0.0	
Febreze air aerosol 8.8 oz	6	Water, alcohol (ethanol), fragrance, odor eliminator, Nitrogen	0.0	
AvonK 75% Alcohol disinfection wipes	3	Ethyl alcohol, water	0.0	
Purell hand Sanitizing wipes - 270wipes	1	Benzalkonium chloride	0.2	open container
409 multisurface cleaner	1	Alkyl dimethyl benzyl ammonium chloride. Other ingredients not listed.	0.0	
Lysol Clean + Fresh multi surface cleaner	6	Alcohols, C10-16 ethoxylated Quaternary ammonium compounds, benzyl 12-16 alkyl dimethyl, chlorides	0.0	
Microban 24hr Sanitizing spray	2	Alkyl dimethyl benzyl ammonium chloride + other ammonium chloride active ingredients	0.0	✓

Structure Sampling - Product Inventory

Page 2 of 2

Homeowner Name & Address: USA1, 1126 River Road, New Windsor, NY

Date: 1/12/23

Samplers & Company: M. Loughlin, C.T. Male

Structure ID: N/A

Site Number & Name: USA1 Lighting

Phone Number: _____

Make & Model of PID: Mini Rae, 3000

Date of PID Calibration: 12/15/22

Identify any Changes from Original Building Questionnaire: N/A

Product Name/Description	Quantity	Chemical Ingredients	PID Reading	Location
Uline Air freshener citrus blossom	4	propane, isobutane, isopropyl alcohol, linalool, ethyl - methylphenylglycidate	0.0	Storage closet VI-3
Windex with vinegar 67.5 oz	3	Ethylene glycol Monohexylether, Lactic Acid	0.0	
Lysol air freshener	19	Triethylene glycol, dimethyl benzyl ammonium Saccharinate	0.0	
Dial antimicrobial hand soap	1	Benzalkonium chloride	0.0	
Clorox disinfecting wipes	4	Ammonium chloride, other ingredients (99.6%) not listed	0.0	↓
Dawn Dish Soap	4	H2O, Sodium Laurel sulfate, C-10-16 Alkyldimethylamine oxide, biodegradable surfactants	0.0	



VI - 3 and IA - 3 located within a cleaning closet inside a break room area

Area 8 - Not sampled due to renovations/no access to this area

Area 7 - Area to remain open to the atmosphere. See letter to NYSDC dated December 24, 2019 requesting forgoing the installation of remaining SSDS components.

IA 2 - Located on a shelving unit near VI - 2



- LEGEND
- VI-1 PERMANENT SUBSLAB VAPOR SAMPLING POINT (APPROX.)
 - IA-1 TEMPORARY INDOOR AIR SAMPLING POINT
 - OA-1 TEMPORARY OUTDOOR AIR SAMPLING POINT
 - AREAS WITH PASSIVE SSDS

NOTE: VI MITIGATION MEASURES FOR ALL AREAS DEPICTED IN RECORD DRAWING "BUILDING VAPOR MITIGATION INTRUSION MEASURES" WM-1 BY FELLENER ENGINEERING (DATED 11/23/16, REVISED 12/2/2016) AND CONSTRUCTION COMPLETION REPORT FOR SSDS IN 2-STORY OFFICE BUILDING BY C.T. MALE (DATED MARCH 29, 2018).

FIGURE VAPOR INTRUSION SAMPLING LOCATIONS

USAI LIGHTING FACILITY
1126 RIVER ROAD

ORANGE COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 • FAX 518.766.7299



DATE	REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
3/29/19	Sampling locations modified	RAM			C 2017 C.T. MALE ASSOCIATES DESIGNED: DRAFTED : J.MARX CHECKED : J.MCIVER PROJ. NO : 14.4337 SCALE : NOT TO SCALE DATE : MAY 2, 2017
4/13/20	SSDS loc. and other areas/shading	RAM			
1/27/21	ECs deficiencies per 1/25/2021 visit	RAM			

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

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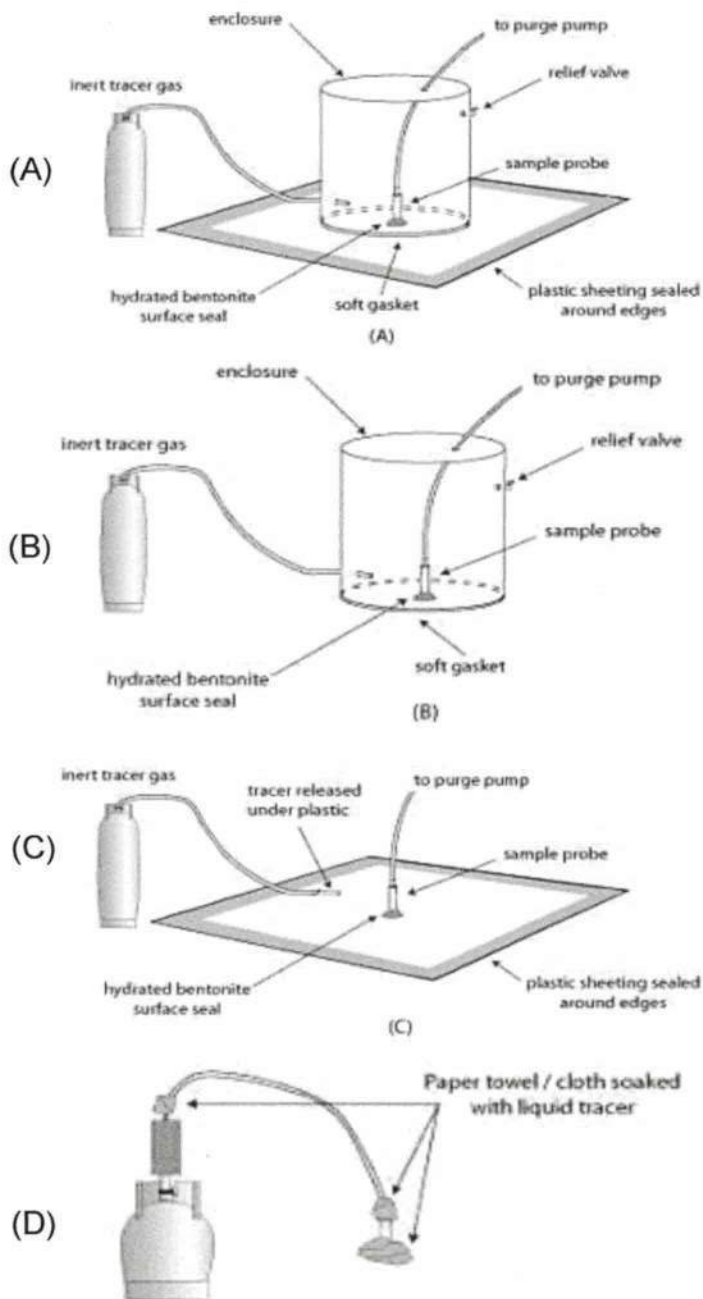
Attachment G: Soil Vapor/ Air Sampling Logs



C.T. MALE ASSOCIATES

SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Project Name: USA1
Location: 1126 River Road, New Windsor
Project No.: 14-4337

Sample Point ID: VI-3 Date: 1/12/2023

Sampling Personnel: Mary Laughlin
Notes Taken By: "

SV Point Activity: ☒ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

(A) B C D NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: Party City
Material Used for Seal Construction: Pottery clay
Instrument to Measure Tracer: MGD-2002 He detector
Ambient Tracer Concentration: 0.0 PPM
Initial Tracer Concentration Applied to Enclosure: 25.2% He
Volume of Water Purged from SV Point: N/A
Purge Method (Vapor): 1) MGD-2002 Duration: 2 min
2) Summa
Sample Tubing Tracer Concentration: 0.0 PPM
Final Enclosure Tracer Concentration: 11.2% He

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☒ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8 hr
Container Type: Summa Size: 60L
Container ID: 593 Regulator ID: 01768

Start Time and Date: 1/12 10:15 Initial Pressure: -29.32
Stop Time and Date: 1/12 16:55 Final Pressure: -8.20

Notes:

• Crack in concrete slab noted in vicinity of SV well

• Sample located in cleaning / storage closet - removed floor tile.

Sample ID VI-3-2023112
Ambient Sample IA-3 located on top of fridge. Sample ID IA-3-20230112
an ID: 3335 Start: 1/12 10:16
Reg. ID: 01671 Stop: 1/12 17:00

Vapor-Air Sampling log.xlsx

Initial pressure: -30.48
Final pressure: -8.19

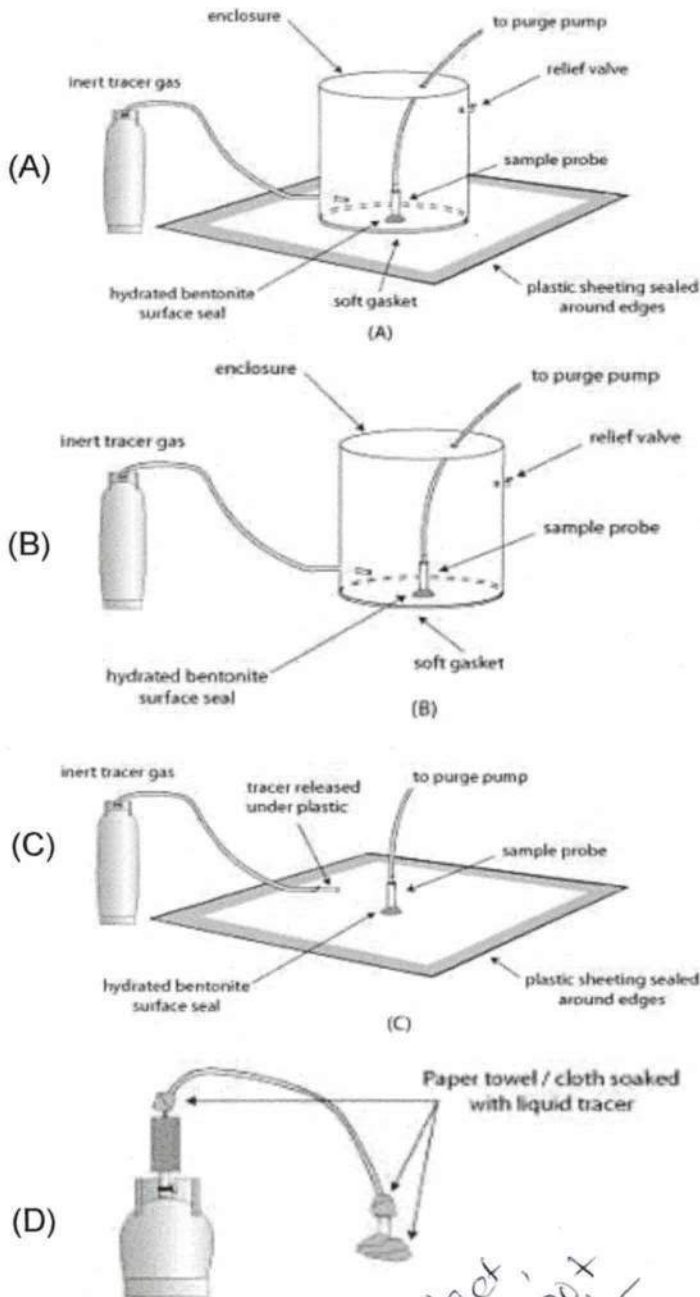
Rev. 01/21/2019



C.T. MALE ASSOCIATES

SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Project Name: USA1
Location: New Windsor, NY
Project No.: 14-4337

Sample Point ID: VI-1 Date: 1/12/23

Sampling Personnel: M. Loughlin
Notes Taken By: "

SV Point Activity: ☒ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

☒ A ☐ B ☐ C ☐ D ☐ NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: Party City
Material Used for Seal Construction: Pottery Clay
Instrument to Measure Tracer: MGD-2002
Ambient Tracer Concentration: 0.0 PPM
Initial Tracer Concentration Applied to Enclosure: 18.1% He
Volume of Water Purged from SV Point: N/A
Purge Method (Vapor): 1) MGD-2002 Duration: 4 min
2) _____
Sample Tubing Tracer Concentration: 0.0 PPM
Final Enclosure Tracer Concentration: 7.850 PPM
(< 5% He)

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☒ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8 hr
Container Type: Summa Size: 6L
Container ID: 3296 Regulator ID: 01948

Start Time and Date: 1/12 10:05 Initial Pressure: -28.14
Stop Time and Date: 1/12 16:22 Final Pressure: -7.93

Notes:

- Located in manufacturing / Packaging area
- Sample ID VI-1-20230112

Sample in-tact, canister not damaged - bucket / enclosure seal broken

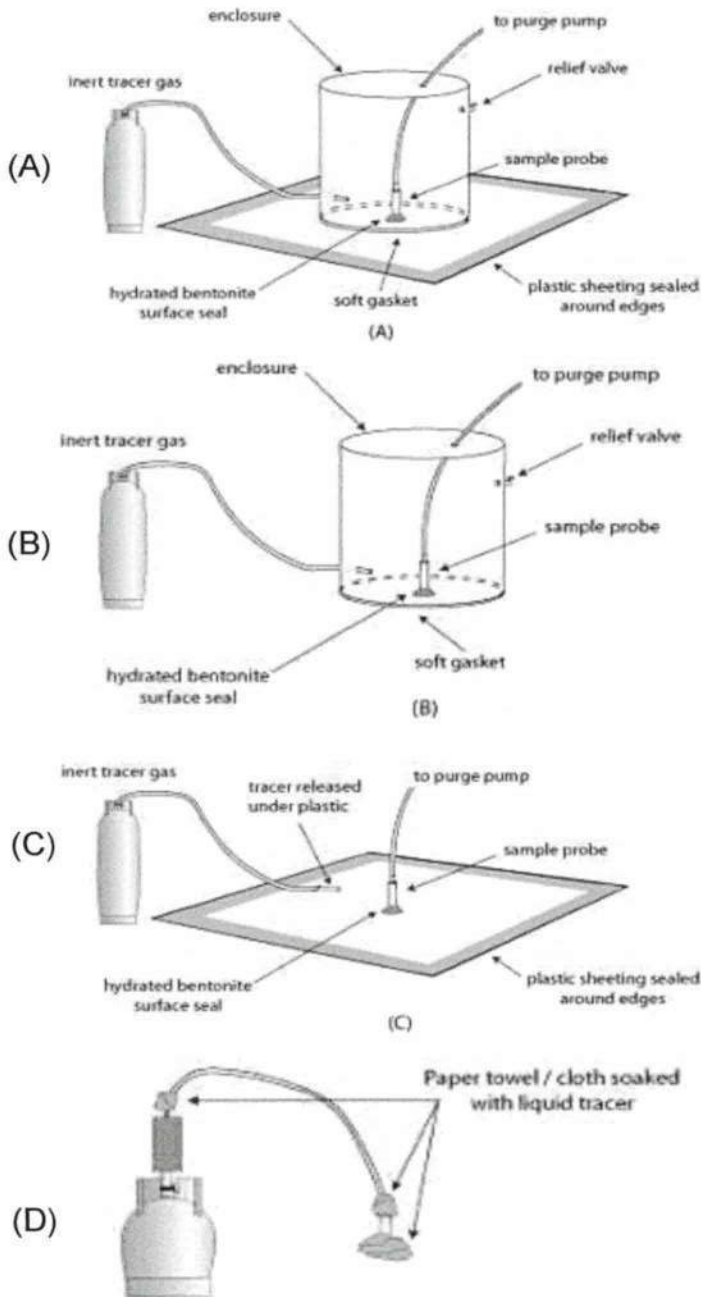
* Note that bucket / sample appeared slightly moved / disturbed @ end of sampling event when



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SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Ambient Sample 1A-2 located on shelving unit near V1-2 sample location.
Can ID: 2054 start: 1/12 10:09
Reg ID: 02067 stop: 1/12 16:35
initial pressure: -30.52
Final pressure: -8.70

Project Name: USA1
Location: New Windsor, NY
Project No.: 14-4337

Sample Point ID: V1-2 Date: 1/12/2023

Sampling Personnel: M. Laghlin
Notes Taken By: "

SV Point Activity: ☒ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

☒ A ☐ B ☐ C ☐ D ☐ NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: Park City
Material Used for Seal Construction: Pottery clay
Instrument to Measure Tracer: MCD-2002 He detector
Ambient Tracer Concentration: 0.0 PPM
Initial Tracer Concentration Applied to Enclosure: 22.4% He
Volume of Water Purged from SV Point: N/A
Purge Method (Vapor): 1) MCD-2002 Duration: 3 min
2) _____
Sample Tubing Tracer Concentration: 0.0 PPM
Final Enclosure Tracer Concentration: 14.0% He

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☒ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8 hr
Container Type: Summa Size: 6L
Container ID: 3380 Regulator ID: 01529

Start Time and Date: 1/12 10:10 Initial Pressure: -30.52
Stop Time and Date: 1/12 16:40 Final Pressure: -9.24

Notes:

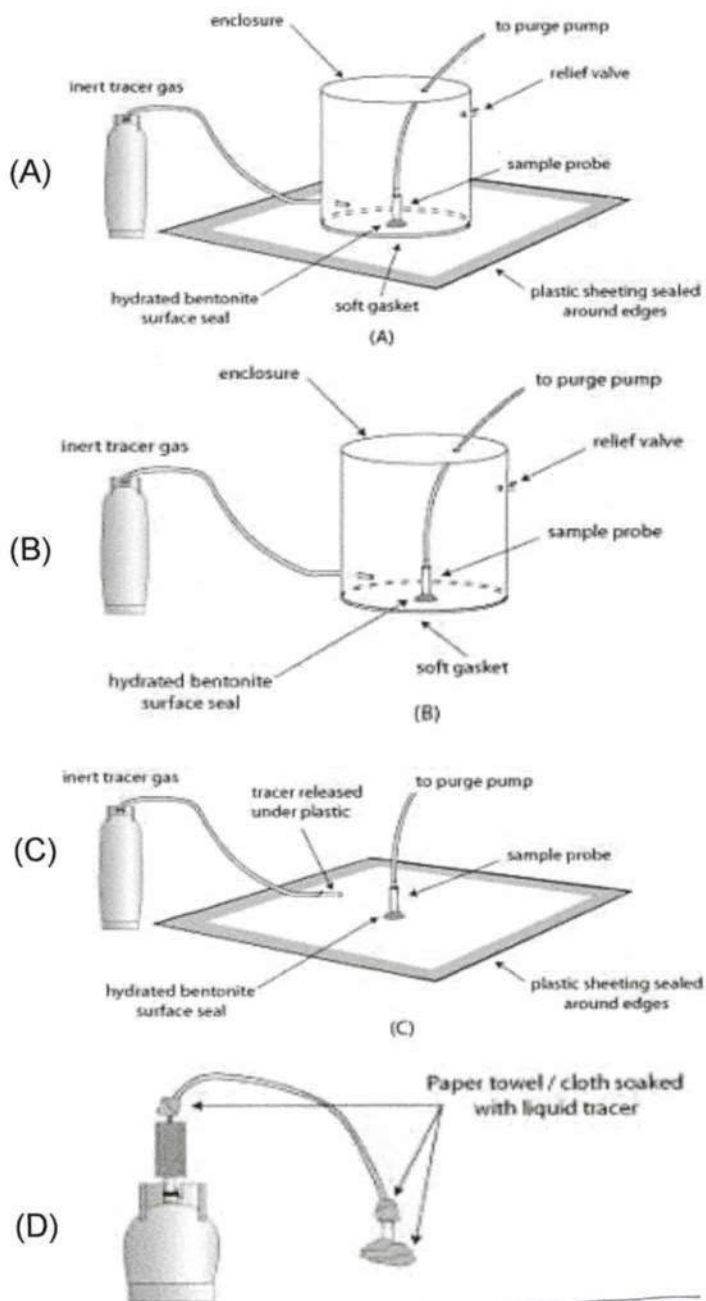
- Located in manufacturing / packaging area
- Sample ID V1-2-20230112
- Ambient sample ID: 1A-2-20230112



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SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Project Name: USA1
Location: New Windsor, NY
Project No.: 14-4337

Sample Point ID: VI-4 Date: 1/12/2023

Sampling Personnel: M. Loughlin
Notes Taken By: 11

SV Point Activity: ☒ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

(A) B C D NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: Park City
Material Used for Seal Construction: Pottery Clay
Instrument to Measure Tracer: MGD-2002
Ambient Tracer Concentration: 0.0 PPM
Initial Tracer Concentration Applied to Enclosure: 17.2%
Volume of Water Purged from SV Point: N/A
Purge Method (Vapor): 1) MGD-2002 Duration: 2 min
2) _____
Sample Tubing Tracer Concentration: 0.0 PPM
Final Enclosure Tracer Concentration: 8.0% He

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☒ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8 hr
Container Type: Summa Size: 6L
Container ID: 654 Regulator ID: 01648

Start Time and Date: 1/12 9:35 Initial Pressure: -30.25
Stop Time and Date: 1/12 17:10 Final Pressure: -7.18

Notes:

Location is vapor pin in electrical closet

Ambient sample 1A-1 located on desk in conference room near electrical closet.

A-1-20230112

Can ID: 2629 start: 1/12 9:46 initial: -30.32

Reg ID: 01665 stop: 1/12 17:13 Final: -7.51

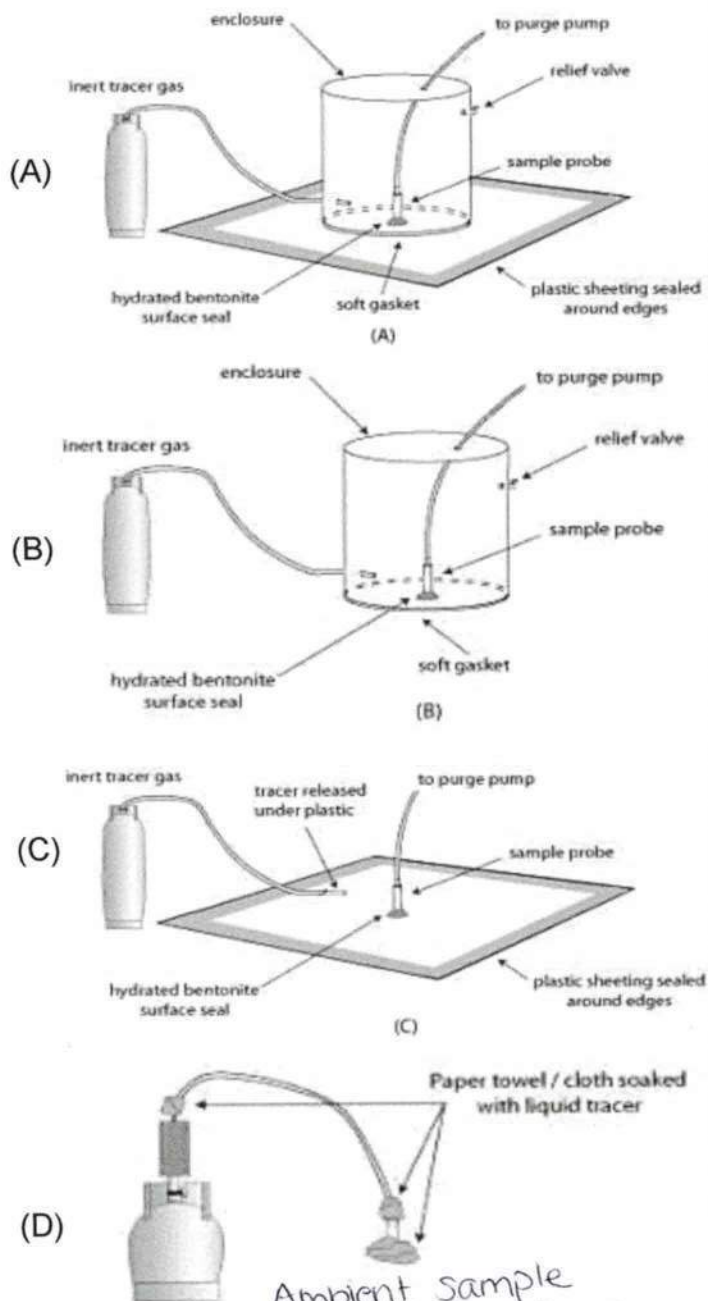
Sample ID VI-4-20230112



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SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Project Name: USA1
Location: New Windsor, NY
Project No.: 14.4337

Sample Point ID: VI-5 Date: 1/12/2023

Sampling Personnel: M. Loughlin
Notes Taken By: 11

SV Point Activity: ☒ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

A B C D NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: Party City
Material Used for Seal Construction: Pottery Clay
Instrument to Measure Tracer: MGD-2002
Ambient Tracer Concentration: 0.0 PPM
Initial Tracer Concentration Applied to Enclosure: 10.0% He
Volume of Water Purged from SV Point: N/A
Purge Method (Vapor): 1) MGD-2002 Duration: 3min
2) _____
Sample Tubing Tracer Concentration: 0.0 PPM
Final Enclosure Tracer Concentration: 6.2% He

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☒ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8 hr
Container Type: Summa Size: 6L
Container ID: 3468 Regulator ID: 01447

Start Time and Date: 1/12 9:55 Initial Pressure: -30.51
Stop Time and Date: 1/12 17:25 Final Pressure: -7.92

Notes:

vapor pin located under stairs - SW corner of the building - near building entrance

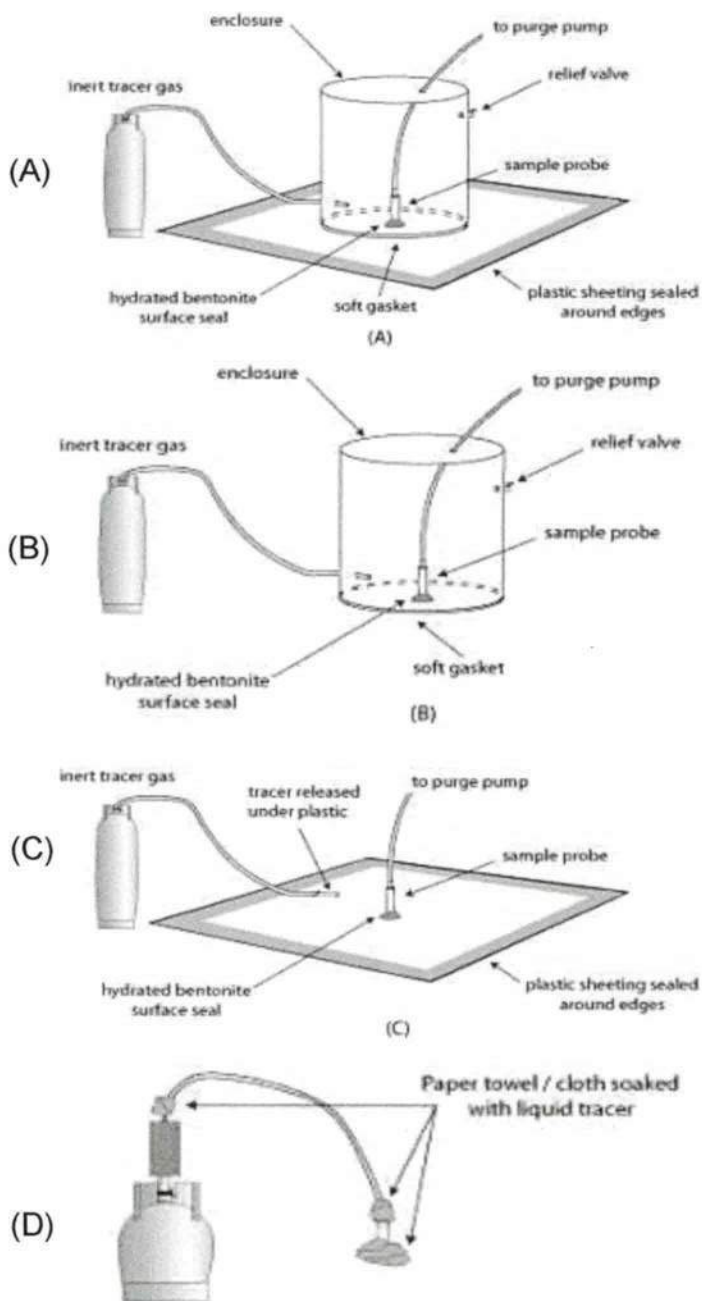
Ambient: Sample ID VI-5-20230112
IA-4 Start: 1/12 9:50 Initial: -30.35
Reg: 01426 Stop: 1/12 17:24 Final: -7.81
Can: 616



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SOIL VAPOR (SV) / AIR SAMPLE LOG

Tracer Gas Application Method*:



Project Name: USA1
 Location: New Windsor, NY
 Project No.: 14.4337

Sample Point ID: OA-1 Date: 1/12/23

Sampling Personnel: _____
 Notes Taken By: _____

SV Point Activity: ☐ Leak Test ☒ Sample Collection

Circle one of the tracer gas application method used

A B C D NA

Tracer Gas and Seal Information:

Tracer Gas Used: _____ Supplier: _____
 Material Used for Seal Construction: _____
 Instrument to Measure Tracer: _____
 Ambient Tracer Concentration: _____
 Initial Tracer Concentration Applied to Enclosure: _____
 Volume of Water Purged from SV Point: _____
 Purge Method (Vapor): 1) _____ Duration: _____
 2) _____
 Sample Tubing Tracer Concentration: _____
 Final Enclosure Tracer Concentration: _____

Sample Information

Sample Type: ☐ Soil Vapor ☒ Ambient/Outdoor Air
☐ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☒ Regulator Flow 8hr
 Container Type: Summa Size: 6L
 Container ID: 2903 Regulator ID: 01512

Start Time and Date: 1/12 9:41 Initial Pressure: -30.41
 Stop Time and Date: 1/12 16:18 Final Pressure: -8.58

Notes:

- Located outside - west of site building
- Sample ID OA-1-20230112

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

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Attachment H: Forms

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.

12 Raymond Avenue, Poughkeepsie, New York 12603
845.454.4400 www.ctmale.com



USAI LIGHTING FACILITY SITE (C336087) SITE MANAGEMENT PLAN (SMP) INSPECTION FORM

**NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024
(IN RED)**

Date of Inspections	March 30, 2023 (RAM); December 16, 2022 (ML)
Personnel Performing Inspection	Rosaura Andujar-McNeil, P.E. (RAM); Mary Loughlin (ML)
Weather Conditions	Sunny, ~37 °F (3/30/23); Light rain ~39 °F (12/16/22)
Institutional Controls (List)	Site Management Plan Implementation Groundwater Use Restriction Without Treatment Use Restriction (Restricted Commercial and Industrial)
Engineering Controls (List)	Surface Cover System (site-wide) Vapor Intrusion (VI) Mitigation Measures

This SMP Inspection Form shall be utilized to document the observations of the USAI Lighting Facility BCP Site located at 1126 River Road in the Town of New Windsor, Orange County, New York. These observations are to confirm the following:

C.T. MALE ASSOCIATES

April 20, 2023 (Revised March 4, 2024)

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- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;

General Surface Condition

Has the overall condition of the cover system changed from the previous inspection? Yes ☐ No ☒

If Yes, provide detail below and identify on Site Plan

The cover system was restored in-kind following construction. A crack in the vicinity of VI-3 was identified in this reporting period and it has been since sealed. See photos attached.

Note: Limited excavation was conducted in March 2022 for the footings of a new awning in main entrance at the southern parking lot.

Is there evidence that the site been disturbed for utility repair or construction? Yes ☒ No ☐

If Yes, provide detail below and identify on Site Plan

A small stockpile of excavated soils (2-5 cyd) remains on-site as a result of the limited Excavation during renovation work. The stockpile is covered with plastic (below and atop soils)

C.T. MALE ASSOCIATES

April 20, 2023 (Revised March 4, 2024)

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and is awaiting off-site disposal and/or reintroduction under the cover system.

Groundwater Use

Is there evidence of groundwater use?

Yes ☐

No ☒

If Yes, provide detail below

If groundwater use is occurring, is there treatment?

Yes ☐

No ☐

If Yes, provide type of treatment below

Not Applicable

If groundwater treatment is occurring, did NYSDEC and
NYSDOH approve such treatment?

Yes ☐

No ☐

If Yes, provide detail on their approval below

Not Applicable

Site Use

Is there evidence of site use for activities not allowed by the
restricted commercial use BCP definition?

Yes ☐

No ☒

If Yes, provide detail below

C.T. MALE ASSOCIATES

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Groundwater Monitoring

Has groundwater monitoring been performed at the frequency specified in the SMP and/or subsequent revisions?

Yes ☒

No ☐

If No, provide detail below

Soil Vapor/Ambient Air Monitoring

Has soil vapor/ambient air monitoring been performed at the frequency specified in the SMP and/or subsequent revisions?

Yes ☒

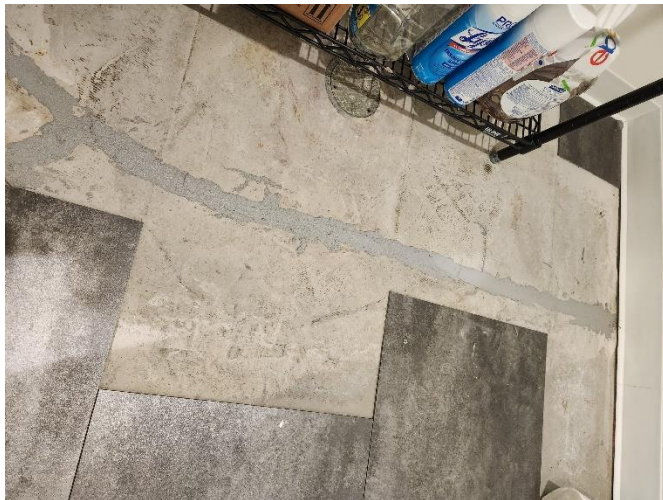
No ☐

If No, provide detail below

Photos



(Before photo) Crack identified in the concrete floor slab in Area 2.

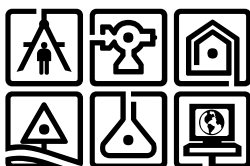


(After photo) Crack identified in the concrete floor slab in Area 2 was repaired by USAI Lighting.



MAP REFERENCE

Orange County Parcel Access
Date accessed: 2/4/2021



C.T. MALE ASSOCIATES

ENGINEERING, SURVEYING, ARCHITECTURE
LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 1 - SITE LOCATION MAP

USAI LIGHTING FACILITY
1126 RIVER ROAD

TOWN OF NEW WINDSOR

ORANGE COUNTY, NY

SCALE: NTS

DRAFTER: RAM

PROJECT No: 14.4337

The locations and features depicted on this map are approximate and do not represent an actual survey.

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Date of Inspections

March 30, 2023

Personnel Performing Inspection

Rosaura Andujar-McNeil, P.E.

Area Number and Label*	Location	VI Mitigation Measure**	Condition of Visible Components of VI Mitigation Measure	Corrective Action Y/N	Notes
1 Stock Room	Central	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Good	N	Equipment assembly area.
2 Production Areas and Offices	Central	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Good	N	Used for offices and storage. Small crack observed near VI-3. Cracked subsequently sealed.
3A Production Area	Central	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Good	N	Occupied. Product assembly.
3B Stock Room	Central	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Good	N	Used for storage. Portions of the slab not visible due to storage of product.
4 Office Space	South-west	Slab to remain, import ¾" stone, 4-inch dia. vent piping in 2016, 10 mil vapor barrier, new concrete slab	Good	N	50% area renovated in 2021 & 50% remained as storage space
5 Not labeled but area used as cafeteria	South-east	Slab to remain, import ¾" stone, 3-inch dia. vent piping, 10 mil vapor barrier, new concrete slab	Good	N	Area used as cafeteria.
6A Stock Room	South-east	New 1/4" thick epoxy coating atop existing concrete floor	Good	N	
6B Loading Dock	South-east	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Good	N	

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Area Number and Label*	Location	VI Mitigation Measure**	Condition of Visible Components of VI Mitigation Measure	Corrective Action Y/N	Notes
7 Lobby	South-central	Import ¾" stone (min 16 inches), 4-inch dia. vent piping in 2016. 10 mil vapor barrier and new concrete slab not installed.	Sub-slab piping and stone installed in 2016. Area no longer to be used as interior space. Area to remain open to the atmosphere.	N	Area vacant. Currently open to the atmosphere. No renovations are intended for this area at this time.
8 Office Space	South-west	Retrofit passive SSDS installed in 2018. Stone installed at suction points. 3-inch dia. vent piping. Existing slab remains.	Excellent.	N	Known as "2-story office Building". Area renovated in 2021. SSDS modified in 2022 during renovation work.
9 Storage Room	Central	Slab to remain, 10 mil vapor barrier, new concrete slab (6")	Excellent	N	Used as storage. Portions of the slab not visible due to storage of product.
10 Stock Room	North	Concrete floor cracks sealed with epoxy	Good.	N	Storage space.
11 Shipping Receiving	North	Concrete floor cracks sealed with epoxy	Good.	N	Storage space.
15 Labeled as "Cafeteria" in older drawings	Central	New ¼" thick epoxy coating atop of existing concrete floor	Good.	N	Currently used as storage space.
16 Office Space	South-central	Concrete floor, cracks sealed with epoxy	Good.	N	Storage and office space.
Notes: * Per depiction in "VI Mitigation Measures Map" by C.T. Male Associates, dated December 1, 2016 ** Per depiction in "Building Vapor Mitigation Intrusion Measures" drawing by Fellenzer Engineering LLP, dated December 9, 2016, except as follow: (1) Areas 12, 13 and 14 not depicted on the Fellenzer drawing. (2) Areas 7 and 8 not as depicted in Fellenzer drawing as SSDSs were modified subsequent to VI mitigation measures installation. Areas needing corrective action are bold and highlighted yellow .					

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Passive Sub-Slab Depressurization System (SSDS)

Areas needing corrective action are **bold and highlighted yellow**.

For each passive SSDS indicate:

Area and Location:

Area 4

Condition of the concrete slab:

Good.

Number of SSDS exhaust pipes:

2

Condition of the SSDS exhaust pipes:

Good.

Obstruction to air flow at the SSDS
exhaust pipes? (Y/N)

N. Client/owner provided photographs.

Visible SSDS piping labeled? (Y/N)

Interior label visible. Exterior label should be replaced. Owner rep. notified.
Label subsequently replaced. See attached photos.

Corrective Action (Y/N)? If Y, indicate:

N

Additional Comments:

None.

Area and Location:

Area 5 (Cafeteria)

Condition of the concrete slab:

Good

Number of SSDS exhaust pipes:

2

Condition of the SSDS exhaust pipes:

Good.

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Area and Location:

Area 5 (Cafeteria)

Obstruction to air flow at the SSDS
exhaust pipes? (Y/N)

N. Client/owner provided photographs.

Visible SSDS piping labeled? (Y/N)

Interior label visible. Exterior label should be replaced. Owner rep. notified.

Label subsequently replaced. See attached photos.

Corrective Action (Y/N)? If Y, indicate:

N

Additional Comments:

None.

Area and Location:

Area 8 (2-story office building)

Condition of the concrete slab:

Good

Number of SSDS exhaust pipes:

1

Condition of the SSDS exhaust pipes:

Good.

Obstruction to air flow at the SSDS
exhaust pipes? (Y/N)

N.

Visible SSDS piping labeled? (Y/N)

Label not observed. Label subsequently replaced. See attached photos.

Corrective Action (Y/N)? If Y, indicate:

N

Additional Comments:

None

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Other Comments:

Area 7 - SSDS in Area 7 not to be installed (area exposed to atmosphere and no longer included in renovation work) as documented in letter to NYSDEC dated December 24, 2019.

Personnel Performing Inspection

Rosaura Andujar-McNeil, P.E.

Signature



Date

March 30, 2023

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Photos



The five (5) SSDS discharge pipes have been re-labeled with clear signage.

Vapor Intrusion (VI) Mitigation Measures Assessment Form

NOTE: REVISED FORM CHANGES/ADDITIONS DATED MARCH 4, 2024 (IN RED)

Photos



The five (5) SSDS pipes have been re-labeled with clear signage.

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

12 Raymond Avenue, Poughkeepsie, New York 12603
845.454.4400 www.ctmale.com



Summary of Green Remediation Metrics for Site Management

Site Name: USAI Lighting Facility Site Code: C336087
Address: 1126 River Road City: New Windsor
State: NY Zip Code: 12553 County: Orange County

Initial Report Period (Start Date of period covered by the Initial Report submittal)

Start Date: December 22, 2016

Current Reporting Period

Reporting Period From: January 30, 2022 To: January 30, 2023

Contact Information

Preparer's Name: Rosaura Andújar-McNeil, P.E. Phone No.: (845) 454-4400

Preparer's Affiliation: Remedial Engineer for BBL, LLC

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current Reporting Period	Total to Date
Fuel Type 1 (e.g. natural gas (cf))	0	0
Fuel Type 2 (e.g. fuel oil, propane (gals))	0	0
Electricity (kWh)	Minimal	Minimal
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar, wind)	0	0
Other energy sources (e.g. geothermal, solar thermal (Btu))	0	0

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	Total to Date (tons)
Total waste generated on-site	<5 lbs.	<5 lbs.
Of that total amount, provide quantity:		
Transported off-site to landfills	<5 lbs.	<5 lbs.
Transported off-site to other disposal facilities	0	0
Transported off-site for recycling/reuse	0	0
Reused on-site	0	0

C.T. MALE ASSOCIATES

April 20, 2023

Mr. Matthew Hubicki

Page - 2

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	Total to Date (miles)
Standby Engineer/Contractor	349	4,574
Laboratory Courier/Delivery Service	0	0
Waste Removal/Hauling	0	0

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gallons)	Total to Date (gallons)
Total quantity of water used on-site	0	0
Of that total amount, provide quantity:		
Public potable water supply usage	0	0
Surface water usage	0	0
On-site groundwater usage	0	0
Collected or diverted storm water usage	0	0

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	Total to Date (acres)
Land disturbed	0	0
Land restored	0	0

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

C.T. MALE ASSOCIATES

April 20, 2023

Mr. Matthew Hubicki

Page - 3

Description of green remediation programs reported above (Attach additional sheets if needed)
Energy Usage: Minimal energy was used (from batteries) to remove water from the groundwater monitoring wells and air from the vapor sampling ports. There are no other energy sources being used for remedial purposes.
Waste Generation: Minimal waste generated, mainly associated with soil vapor and groundwater sampling.
Transportation/Shipping: Transportation to and from the Site is related to SMP monitoring activities by the Remedial Engineer and/or field personnel. Visits to the Site are only on an as needed basis, and usually by a single person (car pooling is often not feasible). Analytical samples collected per the SMP are typically delivered to the laboratory on the return trip from the Site. If this is not feasible, pick up of samples is performed by the laboratory when the laboratory carrier is in route to other pickups.
Water usage: There is no water usage for remedial purposes.
Land Use and Ecosystems: The vegetative growth relative to the landscape areas and stormwater management features installed/planted during the remedial action has been maintained during the reporting period and has become well established. Plantings have continued to grow. The land use and ecosystems in the southern portion of the Site are likely to have improved following remedial activities.
Other:

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

Page - 29

Attachment I: SSDS Schematic – Area 8

PASSIVE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) RECONFIGURATION
SSDS FIRST FLOOR - SHEET ENV-1
1126 RIVER ROAD, NEW WINDSOR, NY
2-STORY OFFICE BUILDING - USAI LIGHTING FACILITY
PREPARED BY: C.T. MALE ASSOCIATES
DATE: JANUARY 3, 2022 (MODIFIED APRIL 24, 2023)

GENERAL SSDS CONSTRUCTION NOTES:

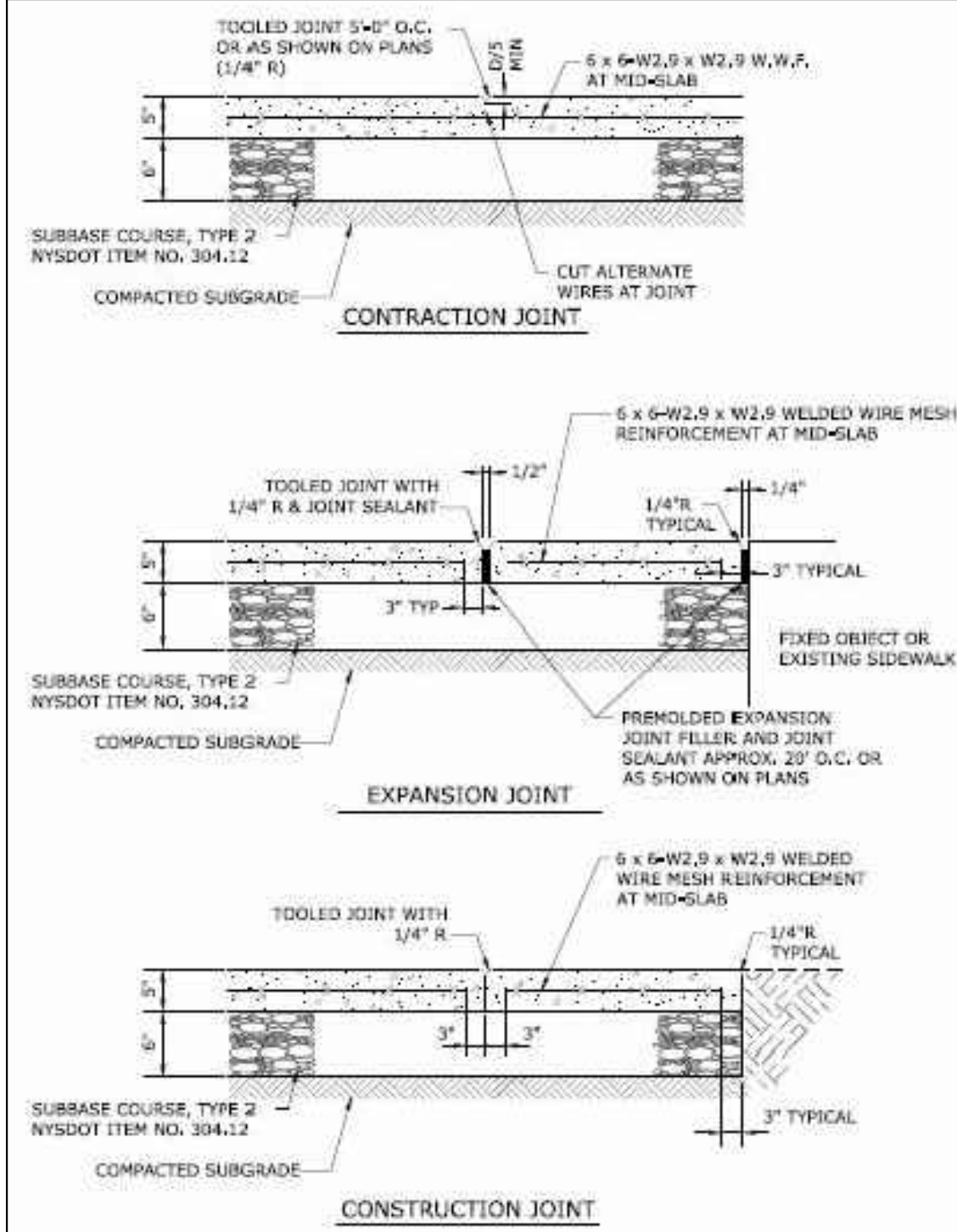
1. SYSTEM INSTALLATION SHALL CONFORM WITH: OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH).
2. DESIGN AND INSTALLATION OF THE SUB-SLAB DEPRESSURIZATION COMPONENTS, PIPING, PENETRATIONS, AND RISER MUST BE COORDINATED WITH OTHER TRADES AND ENVIRONMENTAL ENGINEER TO RESOLVE CONFLICTS.
3. CONSTRUCTION INSPECTIONS FOR THE SYSTEM DURING INSTALLATION TO BE PERFORMED BY ENVIRONMENTAL ENGINEER PRIOR TO SUCTION POINT CLOSING, DURING INSTALLATION OF RISER AND CONVEYANCE PIPE, AND FOLLOWING INSTALLATION OF ALL COMPONENTS.

SEE DRAWING
S100 FOR
CANOPY
STRUCTURAL
DETAILS

FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

REINFORCEMENT SHALL BE AS FOLLOWS: 5" THICK SIDEWALK:
6" X 6"-W2.9/W2.9 WELDED WIRE MESH
THICKNESS OF CONCRETE (D) SHALL BE 5".
CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (F_C) OF
4,000 PSI AND HAVE BETWEEN 5% AND 8% ENTRAINED AIR.
PROVIDE PREMOULDED EXPANSION JOINT FILLER AND SEALER AT 20'
O.C. OR AS SHOWN ON PLANS.
PROVIDE TOOLED CONTRACTION JOINTS AT 5'-0" O.C. BOTH WAYS OR
AS SHOWN ON PLANS.
JOINTS SHALL NOT BE SAW CUT.
ALL EXPOSED SURFACES SHALL HAVE A BROOM TEXTURE FINISH.
DETECTABLE WARNING UNITS:
A. DETECTABLE WARNING UNITS SHALL BE EMBEDDED DETECTABLE
WARNING UNITS CONFORMING WITH SUBSECTIONS 606-2.07
AND 726-0-EMBEDDED DETECTABLE WARNING UNITS, OF THE
NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD
SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED
MAY 1, 2008, AND ALL ADDENDA THERETO. DETECTABLE
WARNING UNITS SHALL COMPLY WITH THE MOST CURRENT
EDITION OF ICC-ANSI 117.1, ACCESSIBLE AND USABLE
BUILDINGS AND FACILITIES.
B. FURNISH AND INSTALL DETECTABLE WARNINGS ON SIDEWALK
CURB RAMPS AND AT OTHER LOCATIONS AS SHOWN IN THE
DRAWINGS OR AS DIRECTED BY THE ARCHITECT/ENGINEER.
ALL CONCRETE SURFACES (WALKS, PADS & CURBS) SHALL BE TREATED
WITH AN APPROVED WATERBORNE DEEP PENETRATING SEALER.
APPROVED SEALERS INCLUDE:
• DAYTON L-19 WB
• EPOCO SHIELD 40 WB
• I & M AQUALUX PLUS
• CRESSET ENVIRO SEAL 40

CONCRETE SIDEWALK NOTES
SCALE: N.T.S.



CONCRETE SIDEWALK DETAILS
SCALE: N.T.S.

LEGEND:

- SUCTION POINT (SP). SEE DETAIL IN ENV-4.
2" DIAMETER SCHEDULE 40 SOLID PVC.
STARTING IN SUB-SLAB, RUNNING VERTICAL
INSIDE WALL OF FIRST FLOOR AND
MANIFOLDED IN CEILING PLENUM VIA A 3"
DIAMETER SCHEDULE 40 SOLID PVC
CONVEYANCE PIPE.
- NEW TEST PORTS (T) ACCESSIBLE
FOLLOWING CONSTRUCTION.

5" CONCRETE
WALKWAY
SEE DETAILS

MAP REFERENCE:

1. BASE MAP NOT PREPARED BY C.T. MALE
ASSOCIATES, BUT WAS USED TO DEPICT THE SSDS
RECONFIGURATION FOR COORDINATION PURPOSES.
2. C.T. MALE ASSOCIATES ADDED INFORMATION AND
FEATURES ARE SHOWN IN COLOR. THESE ARE
APPROXIMATE AND NOT TO SCALE.

GENERAL NOTES

ENVIRONMENTAL ENGINEER:
C.T. MALE ASSOCIATES ENGINEERING, SURVEYING,
ARCHITECTURE, LANDSCAPE ARCHITECTURE &
GEOLOGY, D.P.C.
12 RAYMOND AVENUE, 2ND FLOOR
POUGHKEEPSIE, NY 12603
TEL: (845) 454-4400

GENERAL REVISIONS		12/21/2021
No.	REVISION/SUBMISSION	DATE

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ENGINEERING LLP
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t 845-454-9704 fx 845-454-9705
22 Mulberry St., Suite 2A
Middlebury, NY 10940
t 845-343-1481 fx 845-343-4986

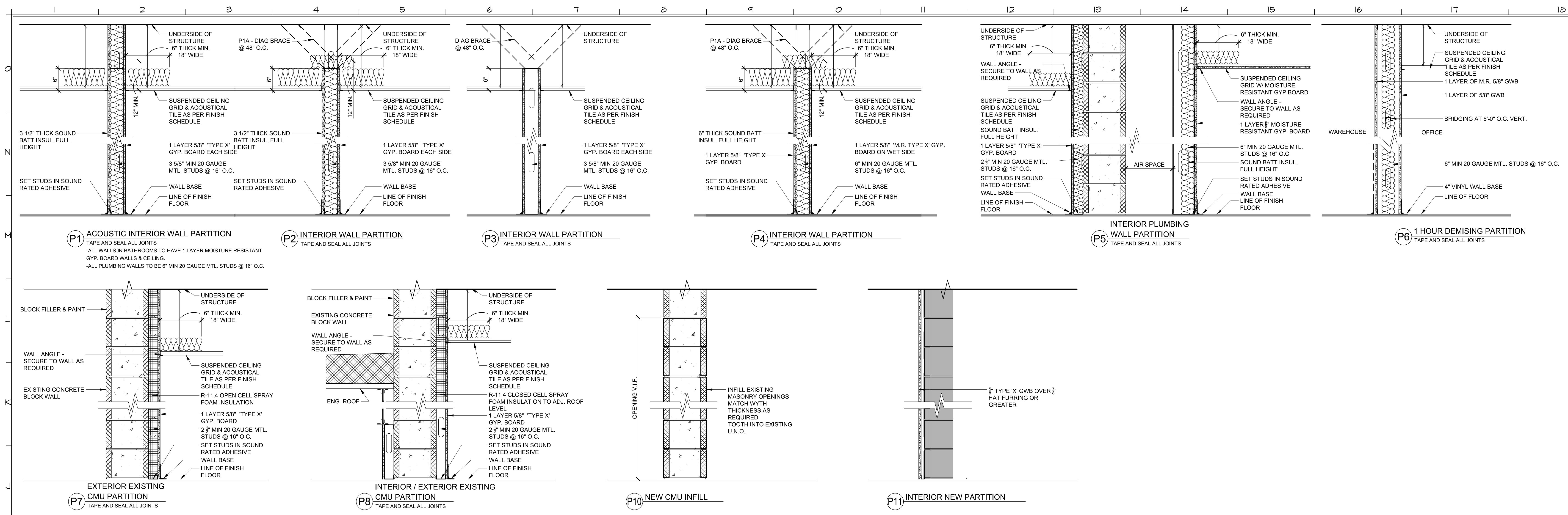
Structural Engineer
DAY STOKOSA
ENGINEERING P.C.
3 Van Wyck
Lane Suite 2
Wappingers Falls, New York
(845)-223-3202

**Liscum
McCormack
VanVoorhis LLP**
181 Church Street
Poughkeepsie, New York 12601
PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752

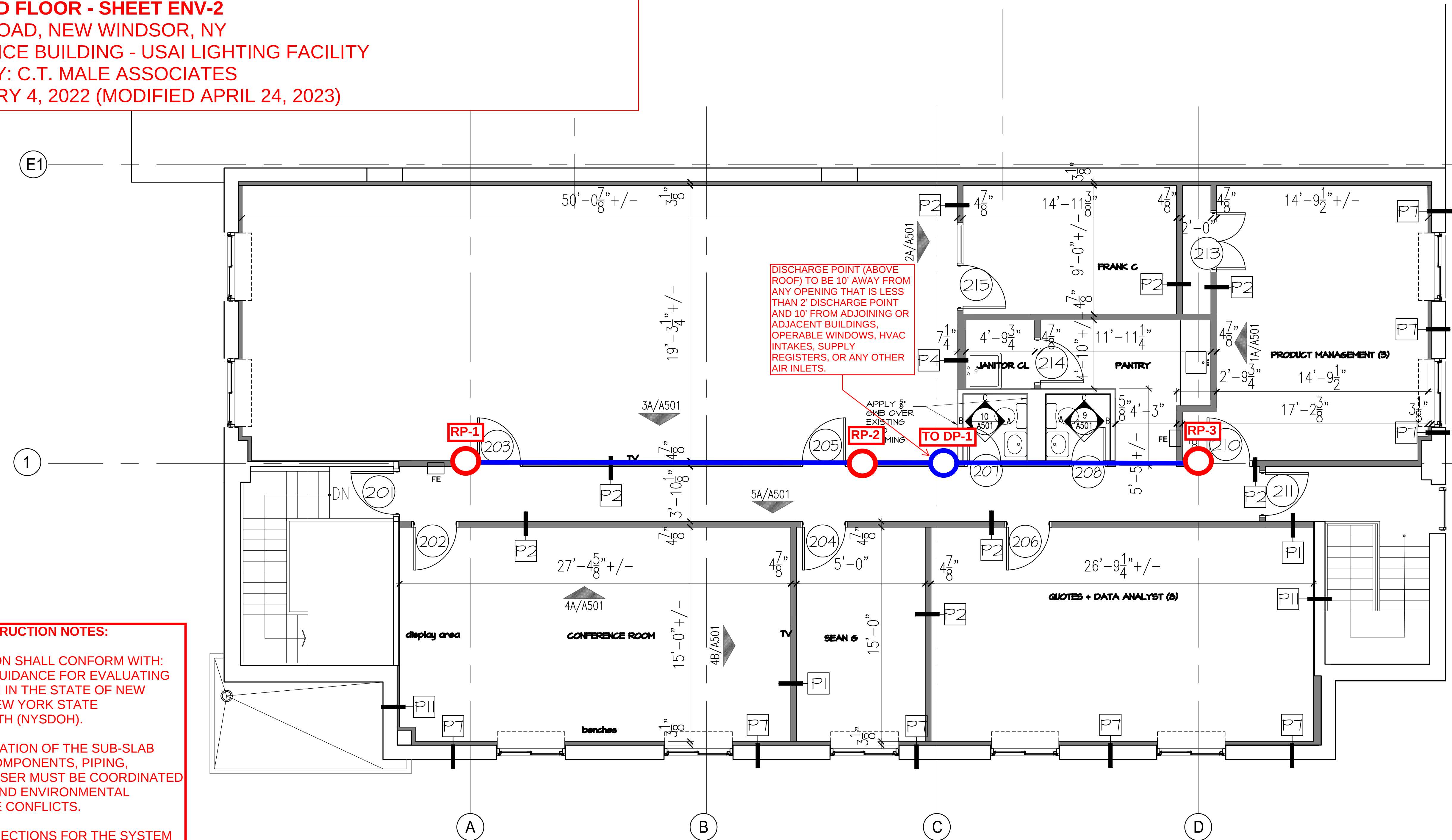
PROJECT
**USAI LIGHTING
RIVER ROAD
NEW WINDSOR, N.Y.**

DRAWING
1st FLOOR PLAN

SEAL	DRAWN BY KS	PROJECT No. 15106
	CHECKED BY MM	DATE 12-11-20
	DRAWING No.	
		A101



PASSIVE SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) RECONFIGURATION
SSDS SECOND FLOOR - SHEET ENV-2
1126 RIVER ROAD, NEW WINDSOR, NY
2-STORY OFFICE BUILDING - USAI LIGHTING FACILITY
PREPARED BY: C.T. MALE ASSOCIATES
DATE: JANUARY 4, 2022 (MODIFIED APRIL 24, 2023)



- GENERAL SSDS CONSTRUCTION NOTES:**
1. SYSTEM INSTALLATION SHALL CONFORM WITH: OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH).
 2. DESIGN AND INSTALLATION OF THE SUB-SLAB DEPRESSURIZATION COMPONENTS, PIPING, PENETRATIONS, AND RISER MUST BE COORDINATED WITH OTHER TRADES AND ENVIRONMENTAL ENGINEER TO RESOLVE CONFLICTS.
 3. CONSTRUCTION INSPECTIONS FOR THE SYSTEM DURING INSTALLATION TO BE PERFORMED BY ENVIRONMENTAL ENGINEER PRIOR TO SUCTION POINT CLOSING, DURING INSTALLATION OF RISER AND CONVEYANCE PIPE, AND FOLLOWING INSTALLATION OF ALL COMPONENTS.

- LEGEND:**
- RISER PIPE (RP). SEE DETAIL IN ENV-4. 2" DIAMETER SCHEDULE 40 SOLID PVC. STARTING IN SUB-SLAB, RUNNING VERTICAL INSIDE WALL AND MANIFOLDED IN FIRST FLOOR CEILING PLENUM VIA A 3" DIAMETER SCHEDULE 40 SOLID PVC CONVEYANCE PIPE.
 - 3" DIAMETER SCHEDULE 40 SOLID PVC CONVEYANCE PIPE MANIFOLDED AT FIRST FLOOR CEILING PLENUM. HORIZONTAL RUN MUST BE PITCHED 1/8" VERTICAL (MIN.) PER FOOT HORIZONTAL (1% SLOPE) TOWARDS THE LOWEST POINT IN THE SYSTEM TO MITIGATE ACCUMULATION OF CONDENSATION.
 - CONNECTION POINT OF HORIZONTAL CONVEYANCE PIPE TO DISCHARGE POINT (DP, ABOVE ROOF) VIA A VERTICAL 3" DIAMETER SCHEDULE 40 SOLID PVC.

- MAP REFERENCE:**
1. BASE MAP NOT PREPARED BY C.T. MALE ASSOCIATES, BUT WAS USED TO DEPICT THE SSDS RECONFIGURATION FOR COORDINATION PURPOSES.
 2. C.T. MALE ASSOCIATES ADDED INFORMATION AND FEATURES ARE SHOWN IN COLOR. THESE ARE APPROXIMATE AND NOT TO SCALE.

GENERAL NOTES

ENVIRONMENTAL ENGINEER:
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POUGHKEEPSIE, NY 12603
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			02-18-21

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(845)-223-3202

Liscum McCormack VanVoorhis LLP
181 Church Street
Poughkeepsie, New York 12601
ARCHITECTURE PLANNING INTERIORS PHONE 845-452-2268 FAX 845-452-3752

PROJECT: **USAI LIGHTING RIVER ROAD NEW WINDSOR, N.Y.**

DRAWING: **PROJECT DESCRIPTION DRAWING TITLE 1 DRAWING TITLE 2**

SEAL	DRAWN BY	PROJECT No.
	KS	15106

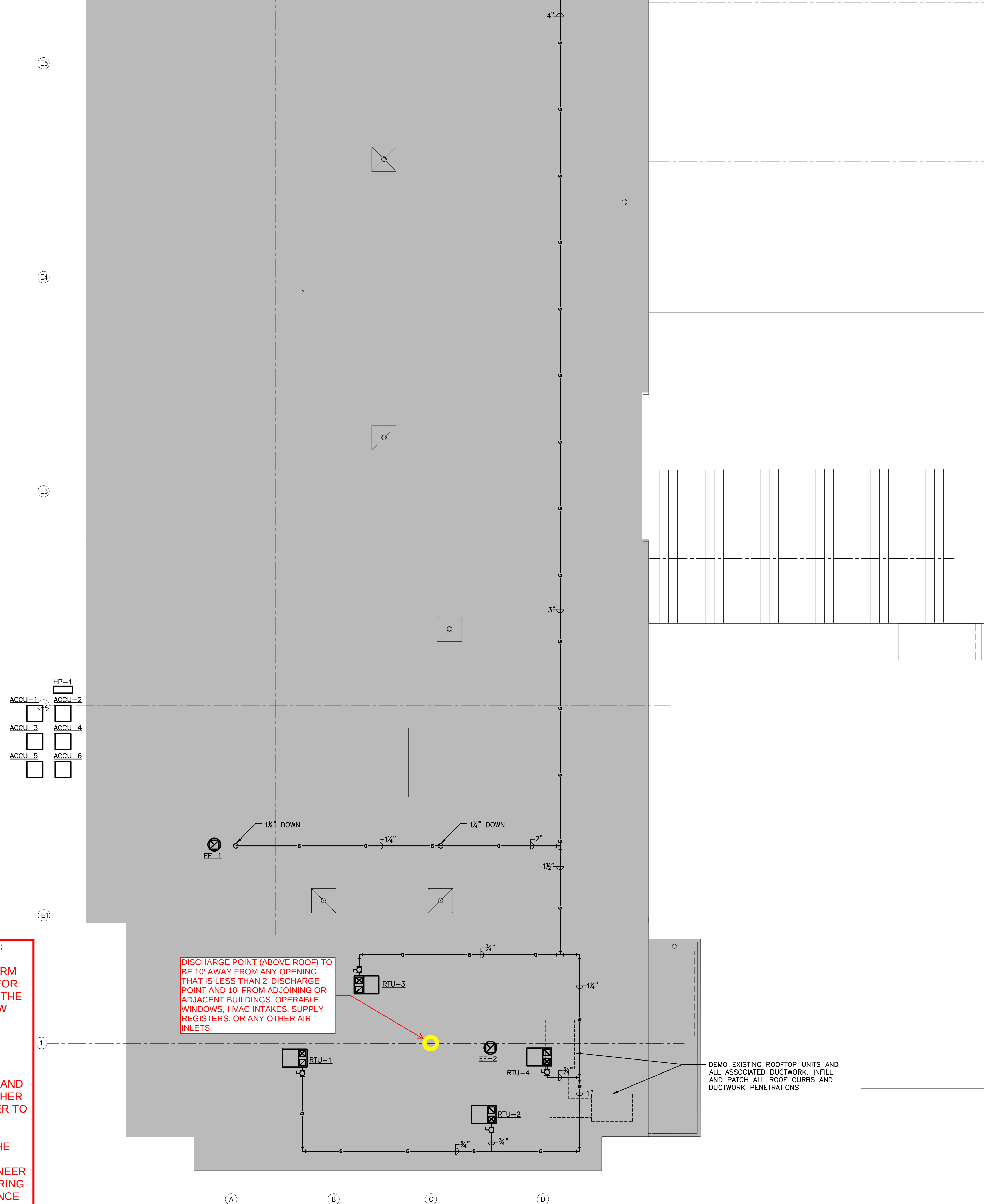
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MM	12-11-20

DRAWING No.

A102
P:201515106-4USAI

1126 RIVER ROAD, NEW WINDSOR, NY
2-STORY OFFICE BUILDING - USAI LIGHTING FACILITY
PREPARED BY: C.T. MALE ASSOCIATES
DATE: JANUARY 4, 2022 (MODIFIED APRIL 24, 2023)

CONNECT NEW 4" GAS LINE TO EXISTING GAS LINE BELOW ROOF DECK IN WAREHOUSE. INSTALL ROOF PIPE ANCHOR AFTER PIPE PENETRATION. DISTANCE APPROXIMATELY 75FT FROM THE END OF DRAWING



1. SYSTEM INSTALLATION SHALL CONFORM WITH: OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH).

2. DESIGN AND INSTALLATION OF THE SUB-SLAB DEPRESSURIZATION COMPONENTS, PIPING, PENETRATIONS, AND RISER MUST BE COORDINATED WITH OTHER TRADES AND ENVIRONMENTAL ENGINEER TO RESOLVE CONFLICTS.

3. CONSTRUCTION INSPECTIONS FOR THE SYSTEM DURING INSTALLATION TO BE PERFORMED BY ENVIRONMENTAL ENGINEER PRIOR TO SUCTION POINT CLOSING, DURING INSTALLATION OF RISER AND CONVEYANCE PIPE, AND FOLLOWING INSTALLATION OF ALL COMPONENTS.

DISCHARGE POINT (ABOVE ROOF) TO BE 10' AWAY FROM ANY OPENING THAT IS LESS THAN 2' DISCHARGE POINT AND 10' FROM ADJOINING OR ADJACENT BUILDINGS, OPERABLE WINDOWS, HVAC INTAKES, SUPPLY REGISTERS, OR ANY OTHER AIR INLETS.

— DEMO EXISTING ROOFTOP UNITS AND ALL ASSOCIATED DUCTWORK. INFILL AND PATCH ALL ROOF CURBS AND DUCTWORK PENETRATIONS

C

DISCHARGE POINT (DP, ABOVE ROOF),
VERTICAL 3" DIAMETER SCHEDULE 40 SOLID
PVC. SEE DETAIL IN ENV-4.

1. BASE MAP NOT PREPARED BY C.T. MALE ASSOCIATES, BUT WAS USED TO DEPICT THE SSDS RECONFIGURATION FOR COORDINATION PURPOSES.
2. C.T. MALE ASSOCIATES ADDED INFORMATION AND FEATURES ARE SHOWN IN COLOR. THESE ARE APPROXIMATE AND NOT TO SCALE.

ENVIRONMENTAL ENGINEER:

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	100% FOR BID	12/11/20
No.	REVISION/SUBMISSION	DATE

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Mechanical/Electrical/Plumbing Engineer

FELLENZER 
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20-384

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PHONE 845-452-2268 FAX 845-452-3752

PROJECT	USAI LIGHTING RIVER ROAD NEW WINDSOR, N.Y.
---------	--

DRAWING

HVAC:
ROOF PLAN

MARK D. FELLENER, P.E.	DRAWN BY	PROJECT No.
	WPB	20-384
	CHECKED BY	DATE

	DSS	11-03-20
	DRAWING No.	

H-201

NY PROFESSIONAL ENGINEER NO. 021218-1	
FILE	

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

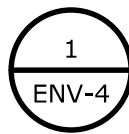
SAWCUT & REMOVE EXISTING CONCRETE (RESTORE IN KIND)

EXISTING CONCRETE (RESTORE IN KIND)

EXISTING SUBGRADE

NOTES:

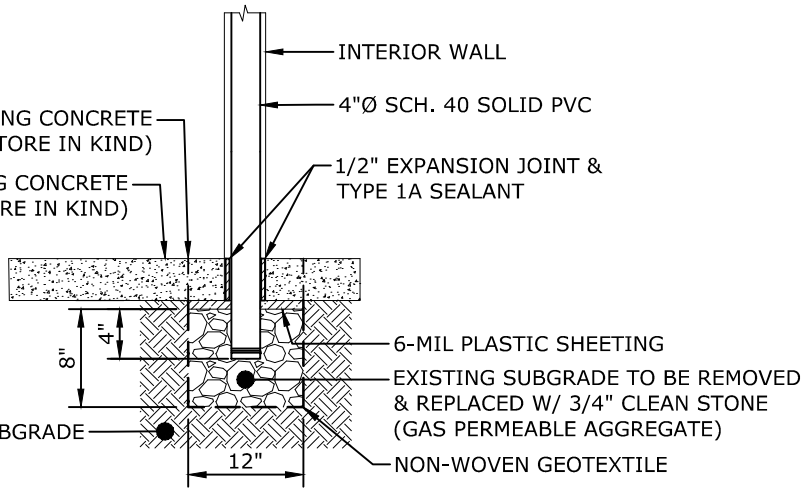
1. MINIMUM 12" SQUARE SAW CUT OR EQUIVALENT MUST BE MADE IN EXISTING CONCRETE SLAB TO ACCESS SUCTION POINT CONSTRUCTION AREA.



TYP. SSDS SUCTION POINT

SCALE: NONE

CROSS REFERENCE: NONE



SYSTEM TO BE CONSTRUCTED AS PASSIVE WITHOUT MECHANICAL FAN. FAN SELECTION FOR AN ACTIVE SYSTEM, IF DETERMINED NECESSARY BY REGULATORY AGENCY, SHALL BE SELECTED BY A MECHANICAL ENGINEER & SHALL BE DETERMINED POST CONSTRUCTION

POLYURETHANE SEALANT APPLIED BEHIND TURNUP & ON TOP OF THE DRAW BAND

4"Ø SCH. 40 SOLID PVC

DRAW BAND REQUIRED MIN. 1" TURNUP

EPDM BOOT OR EQUAL TO BE WATERPROOF

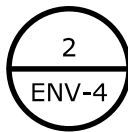
12" MIN

ROOF
INSULATION
DECK

ROOF PENETRATION TO BE BY QUALIFIED ROOFER

NOTES:

1. EXHAUST PIPING FROM THE SSDS SHALL EXTEND:
 - 12" ABOVE ROOF
 - 10' AWAY FROM ANY OPENING THAT IS LESS THAN 2' BELOW THE SSDS DISCHARGE POINT
 - 10' AWAY FROM ADJOINING OR ADJACENT BUILDINGS OR HVAC INTAKES OR SUPPLY REGISTERS
2. SSDS DISCHARGE POINT TO BE COORDINATED WITH PROJECT ARCHITECT & OTHER TRADES.
3. SSDS DISCHARGE POINT & ALL VISIBLE SYSTEM COMPONENTS SHALL BE IDENTIFIED AS FOLLOW VIA TAG, STENCIL OR APPROVED MARKING: "VAPOR INTRUSION MITIGATION SYSTEM. DO NOT ALTER IF DAMAGED REPORT TO BUILDING ADMINISTRATION"



SSDS DISCHARGE POINT

SCALE: NONE

CROSS REFERENCE: NONE

ENV-4

Date	RECORD OF WORK	Appr.	PASSIVE SSDS DETAILS 1126 RIVER ROAD	
			TOWN OF NEW WINDSOR	ORANGE COUNTY, NEW YORK
			C.T. MALE ASSOCIATES Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. 50 CENTURY HILL DRIVE, LATHAM, NY 12110 PH 518.786.7400 COBLESKILL, NY • GLENS FALLS, NY • POUGHKEEPSIE, NY JOHNSTOWN, NY • RED HOOK, NY • SYRACUSE, NY 	
Drafter: S.WUNSCH		Checker: J.MARX	SCALE: NONE	
Appr. by: R.ANDUJAR		Proj. No. 14.4337	DATE: JANUARY 5, 2022	

C.T. MALE ASSOCIATES

April 28, 2023

Mr. Matthew Hubicki

2022 – 2023 PRR – USAI Facility (C336087)

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Attachment J: Renovation Documentation



01 - SE SSDS Point 02.10.2022



02 - SE SSDS Point (2) 02.10.2022



03 - SW SSDS Point 02.10.2022



04 - Center SSDS Point 02.10.2022



05 - SSDS PVC Convergence 02.10.2022



06 - GravelCloseUp 02.10.2022



07 - SecondFloor SSDS Top 02.10.2022



08 - SecondFloor SSDS Through Floor 02.10.2022



09 - Awning excavation markout 03.21.2022



10 - Area of awning excavation 03.21.2022



11 - Water encountered in excavation 03.21.2022



12 - Water encountered in excavation (2) 03.21.2022



13 - Removed asphalt in dumpster 03.21.2022



14 - Relocation of excavated soils on plastic 03.21.2022



15 - Excavated soils on plastic 03.21.2022



16 - Installation of T-1 Vapor Pin 04.28.2022



17 - Location of T-1 04.28.2022



18 - Location of T-2 Vapor Pin 04.28.2022



19 - Installation of T-3 04.28.2022



20 - Location of T-3 04.28.2022



21 - Location of T-4 04.28.2022



22 - Installation of T-5 04.28.2022



23 - Location of T-5 04.28.2022



24 - Excavated Soils on Plastic 04.13.2023

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162307
Firmware Version	3.1
Calibration Date	3/10/2022
Test Name	MANUAL_001
Test Start Time	8:54:18 AM
Test Start Date	3/21/2022
Test Length [D:H:M]	0:04:39
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.026
Mass Minimum [mg/m3]	0.003
Mass Maximum [mg/m3]	0.918
Mass TWA [mg/m3]	0.015
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	279

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	15 minute average
60	0.01			
120	0.014			
180	0.021			
240	0.007			
300	0.01			
360	0.005			
420	0.006			
480	0.013			
540	0.008			
600	0.008			
660	0.006			
720	0.028			
780	0.015			
840	0.008			
900	0.01			0.011267
960	0.013			
1020	0.044			
1080	0.007			
1140	0.008			
1200	0.017			
1260	0.007			
1320	0.013			
1380	0.007			
1440	0.007			
1500	0.006			
1560	0.012			
1620	0.008			

1680	0.009	
1740	0.008	
1800	0.01	0.011733
1860	0.009	
1920	0.009	
1980	0.006	
2040	0.006	
2100	0.007	
2160	0.006	
2220	0.006	
2280	0.007	
2340	0.01	
2400	0.006	
2460	0.007	
2520	0.02	
2580	0.007	
2640	0.006	
2700	0.008	0.008
2760	0.012	
2820	0.005	
2880	0.005	
2940	0.006	
3000	0.004	
3060	0.007	
3120	0.015	
3180	0.005	
3240	0.003	
3300	0.004	
3360	0.007	
3420	0.006	
3480	0.005	
3540	0.006	
3600	0.005	0.006333
3660	0.005	
3720	0.004	
3780	0.005	
3840	0.005	
3900	0.005	
3960	0.005	
4020	0.006	
4080	0.005	
4140	0.008	
4200	0.004	
4260	0.004	
4320	0.014	
4380	0.004	
4440	0.006	

4500	0.006	0.005733
4560	0.005	
4620	0.004	
4680	0.004	
4740	0.013	
4800	0.006	
4860	0.02	
4920	0.027	
4980	0.004	
5040	0.004	
5100	0.004	
5160	0.013	
5220	0.015	
5280	0.007	
5340	0.009	
5400	0.006	0.0094
5460	0.006	
5520	0.006	
5580	0.004	
5640	0.006	
5700	0.003	
5760	0.019	
5820	0.009	
5880	0.005	
5940	0.004	
6000	0.003	
6060	0.005	
6120	0.007	
6180	0.004	
6240	0.159	
6300	0.355	0.039667
6360	0.095	
6420	0.383	
6480	0.754	
6540	0.266	
6600	0.918	
6660	0.117	
6720	0.017	
6780	0.005	
6840	0.012	
6900	0.024	
6960	0.046	
7020	0.014	
7080	0.013	
7140	0.004	
7200	0.006	0.178267
7260	0.084	

7320	0.017	
7380	0.005	
7440	0.011	
7500	0.004	
7560	0.026	
7620	0.008	
7680	0.004	
7740	0.008	
7800	0.003	
7860	0.004	
7920	0.006	
7980	0.007	
8040	0.032	
8100	0.003	0.0148
8160	0.015	
8220	0.007	
8280	0.004	
8340	0.004	
8400	0.01	
8460	0.008	
8520	0.003	
8580	0.006	
8640	0.008	
8700	0.004	
8760	0.008	
8820	0.004	
8880	0.006	
8940	0.006	
9000	0.003	0.0064
9060	0.005	
9120	0.01	
9180	0.004	
9240	0.004	
9300	0.004	
9360	0.003	
9420	0.003	
9480	0.004	
9540	0.005	
9600	0.004	
9660	0.005	
9720	0.025	
9780	0.008	
9840	0.009	
9900	0.012	0.007
9960	0.009	
10020	0.005	
10080	0.039	

10140	0.012	
10200	0.013	
10260	0.009	
10320	0.005	
10380	0.004	
10440	0.005	
10500	0.015	
10560	0.016	
10620	0.013	
10680	0.008	
10740	0.011	
10800	0.014	0.011867
10860	0.008	
10920	0.006	
10980	0.004	
11040	0.009	
11100	0.009	
11160	0.005	
11220	0.006	
11280	0.008	
11340	0.005	
11400	0.004	
11460	0.008	
11520	0.017	
11580	0.025	
11640	0.065	
11700	0.015	0.012933
11760	0.01	
11820	0.007	
11880	0.005	
11940	0.006	
12000	0.009	
12060	0.007	
12120	0.005	
12180	0.004	
12240	0.005	
12300	0.004	
12360	0.006	
12420	0.01	
12480	0.009	
12540	0.004	
12600	0.005	0.0064
12660	0.004	
12720	0.004	
12780	0.003	
12840	0.003	
12900	0.003	

12960	0.003	
13020	0.003	
13080	0.003	
13140	0.003	
13200	0.003	
13260	0.003	
13320	0.003	
13380	0.004	
13440	0.004	
13500	0.008	0.0036
13560	0.003	
13620	0.003	
13680	0.004	
13740	0.003	
13800	0.003	
13860	0.003	
13920	0.004	
13980	0.004	
14040	0.003	
14100	0.003	
14160	0.003	
14220	0.004	
14280	0.005	
14340	0.003	
14400	0.004	0.003467
14460	0.005	
14520	0.022	
14580	0.147	
14640	0.162	
14700	0.326	
14760	0.4	
14820	0.122	
14880	0.251	
14940	0.108	
15000	0.004	
15060	0.012	
15120	0.026	
15180	0.011	
15240	0.017	
15300	0.005	0.107867
15360	0.006	
15420	0.003	
15480	0.008	
15540	0.04	
15600	0.007	
15660	0.013	
15720	0.008	

15780	0.006	
15840	0.006	
15900	0.007	
15960	0.011	
16020	0.021	
16080	0.008	
16140	0.009	
16200	0.007	0.0428
16260	0.032	
16320	0.171	
16380	0.145	
16440	0.021	
16500	0.015	
16560	0.016	
16620	0.005	
16680	0.006	
16740	0.01	

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162221
Firmware Version	3.1
Calibration Date	3/9/2022
Test Name	MANUAL_001
Test Start Time	8:51:12 AM
Test Start Date	3/21/2022
Test Length [D:H:M]	0:04:45
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.011
Mass Minimum [mg/m3]	0.003
Mass Maximum [mg/m3]	0.653
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	285

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	15 min average
60	0.007			
120	0.007			
180	0.006			
240	0.007			
300	0.006			
360	0.006			
420	0.005			
480	0.007			
540	0.006			
600	0.009			
660	0.006			
720	0.008			
780	0.036			
840	0.011			
900	0.006			0.008867
960	0.008			
1020	0.008			
1080	0.006			
1140	0.006			
1200	0.007			
1260	0.006			
1320	0.008			
1380	0.007			
1440	0.007			
1500	0.007			
1560	0.007			
1620	0.006			

1680	0.006	
1740	0.006	
1800	0.007	0.0068
1860	0.007	
1920	0.008	
1980	0.008	
2040	0.006	
2100	0.008	
2160	0.013	
2220	0.009	
2280	0.007	
2340	0.006	
2400	0.007	
2460	0.01	
2520	0.013	
2580	0.007	
2640	0.008	
2700	0.006	0.0082
2760	0.007	
2820	0.008	
2880	0.007	
2940	0.007	
3000	0.006	
3060	0.008	
3120	0.007	
3180	0.011	
3240	0.006	
3300	0.007	
3360	0.006	
3420	0.007	
3480	0.006	
3540	0.007	
3600	0.006	0.007067
3660	0.006	
3720	0.006	
3780	0.006	
3840	0.006	
3900	0.005	
3960	0.005	
4020	0.007	
4080	0.006	
4140	0.006	
4200	0.006	
4260	0.006	
4320	0.006	
4380	0.006	
4440	0.005	

4500	0.006	0.005867
4560	0.005	
4620	0.009	
4680	0.005	
4740	0.005	
4800	0.005	
4860	0.005	
4920	0.006	
4980	0.008	
5040	0.007	
5100	0.005	
5160	0.005	
5220	0.006	
5280	0.005	
5340	0.006	
5400	0.005	0.0058
5460	0.004	
5520	0.005	
5580	0.005	
5640	0.005	
5700	0.005	
5760	0.005	
5820	0.006	
5880	0.066	
5940	0.113	
6000	0.006	
6060	0.006	
6120	0.007	
6180	0.004	
6240	0.006	
6300	0.005	0.016533
6360	0.653	
6420	0.203	
6480	0.045	
6540	0.104	
6600	0.008	
6660	0.188	
6720	0.051	
6780	0.013	
6840	0.01	
6900	0.013	
6960	0.013	
7020	0.007	
7080	0.005	
7140	0.009	
7200	0.008	0.088667
7260	0.028	

7320	0.045	
7380	0.026	
7440	0.007	
7500	0.005	
7560	0.003	
7620	0.004	
7680	0.005	
7740	0.005	
7800	0.004	
7860	0.005	
7920	0.004	
7980	0.004	
8040	0.005	
8100	0.005	0.010333
8160	0.004	
8220	0.004	
8280	0.005	
8340	0.005	
8400	0.006	
8460	0.014	
8520	0.005	
8580	0.004	
8640	0.004	
8700	0.004	
8760	0.006	
8820	0.005	
8880	0.004	
8940	0.004	
9000	0.016	0.006
9060	0.005	
9120	0.004	
9180	0.004	
9240	0.008	
9300	0.006	
9360	0.008	
9420	0.004	
9480	0.004	
9540	0.005	
9600	0.004	
9660	0.004	
9720	0.004	
9780	0.005	
9840	0.004	
9900	0.004	0.004867
9960	0.005	
10020	0.004	
10080	0.034	

10140	0.006	
10200	0.004	
10260	0.004	
10320	0.004	
10380	0.006	
10440	0.004	
10500	0.004	
10560	0.004	
10620	0.003	
10680	0.003	
10740	0.012	
10800	0.005	0.0068
10860	0.012	
10920	0.007	
10980	0.004	
11040	0.004	
11100	0.004	
11160	0.003	
11220	0.003	
11280	0.004	
11340	0.004	
11400	0.004	
11460	0.007	
11520	0.005	
11580	0.005	
11640	0.005	
11700	0.004	0.005
11760	0.007	
11820	0.004	
11880	0.04	
11940	0.007	
12000	0.005	
12060	0.003	
12120	0.006	
12180	0.008	
12240	0.003	
12300	0.003	
12360	0.003	
12420	0.004	
12480	0.003	
12540	0.003	
12600	0.006	0.007
12660	0.004	
12720	0.004	
12780	0.024	
12840	0.004	
12900	0.004	

12960	0.004	
13020	0.004	
13080	0.003	
13140	0.005	
13200	0.006	
13260	0.003	
13320	0.01	
13380	0.009	
13440	0.004	
13500	0.008	0.0064
13560	0.006	
13620	0.004	
13680	0.003	
13740	0.003	
13800	0.003	
13860	0.003	
13920	0.003	
13980	0.003	
14040	0.003	
14100	0.003	
14160	0.005	
14220	0.004	
14280	0.004	
14340	0.005	
14400	0.005	0.0038
14460	0.004	
14520	0.004	
14580	0.004	
14640	0.004	
14700	0.047	
14760	0.004	
14820	0.008	
14880	0.004	
14940	0.004	
15000	0.003	
15060	0.004	
15120	0.003	
15180	0.004	
15240	0.005	
15300	0.007	0.007267
15360	0.006	
15420	0.005	
15480	0.004	
15540	0.004	
15600	0.004	
15660	0.009	
15720	0.005	

15780	0.007	
15840	0.005	
15900	0.004	
15960	0.006	
16020	0.005	
16080	0.011	
16140	0.007	
16200	0.006	0.005867
16260	0.007	
16320	0.005	
16380	0.005	
16440	0.005	
16500	0.006	
16560	0.017	
16620	0.004	
16680	0.008	
16740	0.004	
16800	0.005	
16860	0.005	
16920	0.004	
16980	0.01	
17040	0.007	
17100	0.013	0.007