

FORMER DURASPEC ELECTROPLATING FACILITY
QUEENS COUNTY
JAMAICA, NEW YORK

2021-2022 PERIODIC REVIEW REPORT

NYSDEC Site Number: 241204

Prepared for:

Hastings Capital, LLC
100 Field Street
West Babylon, NY 11704

Prepared by:

AMEC E&E, PC
209-35 Northern Blvd., Suite 203
Bayside, NY 11361
347-836-4343

April 2022



Eric Weinstock, Project Manager



Michael Bates, Project Scientist



**2021-2022 Periodic Review Report
Former Duraspec Electroplating Facility
87-83 139th Street
Jamaica, New York**

1.0 EXECUTIVE SUMMARY

The following Periodic Review Report (PRR) has been prepared by AMEC E&E, PC (AMEC) on behalf of Hastings Capital, LLC. This report was prepared in accordance with the NYSDEC's PRR General Guidance document and a NYSDEC Order On Consent R2-20170622-235.

A. Nature and Extent of Contamination

Historically, the contaminated media at the former Durspec Electroplating Facility (the Site) included soil, soil vapor and groundwater.

- The primary contaminants in the soil were the metals cadmium, chromium, copper and nickel.
- The primary contaminant of concern in the soil vapor was trichloroethene (TCE).
- The groundwater historically contained detections of ethylbenzene and several semi-volatile organic compounds in the upgradient site well. The downgradient well has not display exceedances of the metals and VOCs detected in the soil and soil vapor.

The active sub-slab depressurization (SSD) system will not be discontinued unless prior written approval is granted by the NYSDEC and the NYSDOH. For further details regarding operation and maintenance of the SSD system, please refer to the Site Management Plan (SMP) dated May 2019 (Ref. 1). A composite cover system and SSD system were installed underneath the building on the Site.

B. Effectiveness of Remedial Program

The remedial program has been effective.

- The majority of the soil impacted by these metals was excavated and removed from the property as part of the renovation activities. The entire property is capped with pavement or a concrete slab.
- The active SSD system is maintaining negative pressure below the slab. Indoor air sample results do not exceed the NYSDOH matrices values for PCE or TCE.
- The samples collected and analyzed over the past three sampling rounds from the site's downgradient well do not indicate that groundwater below the site has been negatively impacted by the past activities at Duraspec (Ref. 2).

C. Compliance

The site is in compliance.

D. Recommendations

Annual inspections and indoor air sampling during the heating season should continue in accordance with the SMP.

2.0 SITE OVERVIEW

A. Site Location, Surrounding Area and Nature & Extent of Contamination Prior to Site Remediation

The Site is located in Jamaica, Queens, NY and currently encompasses a 90-foot by 55-foot property developed with a two-story industrial/commercial building and basement level with an associated driveway along the northern portion of the property. The NYC Tax Map designates the Site as Queens County; Block: 9685; Lot: 50. The neighborhood surrounding the subject property consists of a highly urbanized area of Jamaica with adjacent properties generally consisting of commercial use along Hillside Avenue toward the north and residential use toward the south (Figure 1). The tenant of the building on the Site is RCA Stone & Tiles. Indoor air samples were taken inside the building on both the first floor and in the basement.

Prior to redevelopment, the soils below the plating areas were impacted with the metals cadmium, chromium, copper and nickel to a depth of approximately 11 feet below sidewalk grade. Chromium, copper, and nickel were detected in concentrations exceeding the Commercial Soil Cleanup Objectives (SCOs) and Cadmium was detected in concentrations exceeding the Industrial SCOs.

Soil vapor below the building slab contained TCE at a concentration of 82.8 ug/m³.

Benzene, Ethylbenzene, Toluene and Xylene (BTEX) type compounds and several Polynuclear Aromatic Hydrocarbons (PAHs) were detected in the upgradient well at the site. These were not detected in the site's downgradient well and are believed to have originated from auto repair facilities or filling stations located to the north along Hillside Avenue.

Several naturally occurring metals such as iron, manganese and sodium were detected in the upgradient well and, to a lesser degree, in the downgradient well. Cadmium and chromium were detected above groundwater standards in the site's upgradient well but were not detected above the groundwater standard in site's the downgradient well. Generally, the concentrations of metals in the groundwater displayed a decreasing or stable trend over a three year following the approval of the SMP.

B. Chronology of Remedial Program

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site.

Facility Decommissioning

Duraspec operated an electroplating facility and was a hazardous waste generator under EPA ID NYD012379798. They ceased operation during the summer of 2015. Prior to closing, metal parts were electroplated with cadmium, copper, and zinc. In previous years, Duraspec also plated parts with chromium, gold, nickel, and silver. Metallic parts were prepared for plating using alkaline cleaners, acid etching solutions, and/or stripping solutions (depending on the process at the time) and rinsed. Once the metallic parts were prepared, the parts were electroplated in process solutions that contained the required metals in solution followed by a parts rinse. Parts were cleaned and plated in tanks located in different sections of the plant. This includes Plating Area 1

which was used for plating metal parts with chromium & nickel and Plating Area 2 which was used to plate metal parts with cadmium, copper, gold, nickel, silver, & zinc. (See Appendix B.)

The property was acquired by Hastings Capital, LLC in December 2015. Subsequently, Hastings retained Innovative Recycling Technologies, Inc. (IRT) to initiate decommissioning procedures. The first step in decommissioning the facility was to pressure wash and dispose of the metal equipment as scrap metal. The plastic process tanks, rubber coating over the floors, and concrete containment berms were also pressure washed and disposed of as hazardous waste. The concrete floors were pressure washed, broken up, and disposed of. All the pressure wash water from the above operations was collected into 55-gallon drums and disposed of by a contractor under a hazardous manifest at Republic Environmental Systems (P) LLC of Hatfield, PA.

Wastewater generated during the operation of the Duraspec facility was pretreated on-site before being discharged to the New York City municipal sewer system pursuant to a New York City Department of Environmental Protection Industrial Wastewater Discharge Permit. The wastewater treatment system consisted of five 400-gallon tanks, which contained the hazardous waste generated at Duraspec. During the decommissioning process, the wastewater remaining in the tanks was pumped into a total of eight 275-gallon, DOT approved totes. These were in turn, shipped to Republic Environmental Systems, LLC.

RCRA Closure Activities

In June 2016, Hastings retained AMEC to prepare a RCRA Closure Plan for submittal and approval by the NYSDEC. The procedures outlined in the NYSDEC-approved RCRA Closure Plan and dated October 2016, involved a soil boring program in Plating Area 1, Plating Area 2, and the Alleyway to evaluate the presence and/or extent of contamination onsite. The soil boring program revealed exceedances above the Commercial Soil Cleanup Objectives (SCOs) for several metals (i.e. chromium, copper, and nickel) at numerous boring locations. Cadmium was detected at concentrations exceeding the Industrial SCOs in some boring locations. In addition, some SVOCs (i.e. benzo(b)fluoranthene, chrysene, and ideno(1,2,3-cd)pyrene) were detected at concentrations exceeding the Unrestricted SCO and benzo(a)pyrene was detected at a concentration exceeding the Commercial SCO for one sample. However, the SVOCs exceedances were attributed to urban fill.

Based on the results of the soil boring program, Hastings initiated an excavation program to remove the concrete floors and underlying metals-impacted soils from below Plating Area 1, Plating Area 2, and the Wastewater Treatment Area. The excavation extended to a depth of 5 feet bgs in Plating Area 1, to a depth of 11 feet bgs in Plating Area 2 and the Wastewater Treatment Area, and to a depth of 2 feet bgs in the Alleyway. With the exception of the Alleyway, the excavation continued to the maximum extent possible without comprising the building's structural integrity.

AMCE returned to the site to collect excavation endpoint samples in accordance with the NYSDEC DER-10. The laboratory analytical results for the endpoint samples continued to display exceedances comparable to those detected during the soil boring program. In Plating Area 1, no metals exceeded the Industrial SCOs, however the several metals (i.e. chromium, copper, and nickel) exceeded the Commercial SCOs in numerous endpoint samples. In Plating Area 2 and the Wastewater Treatment Area, copper exceeded the Commercial SCOs and cadmium exceeded the Industrial SCOs at numerous endpoint sample locations. In the Alleyway, there were several exceedances for metals above the Unrestricted SCOs, but none above the Commercial or Industrial SCOs.

Due to the exceedances of various metals in the soil, the NYSDEC requested that other subsurface media (i.e. groundwater and soil vapor) be evaluated. An existing onsite groundwater monitoring well and an existing off-site downgradient groundwater monitoring well were sampled

using low-flow sampling procedures. The groundwater samples were analyzed for VOCs, SVOCs, cyanide, and the metals of concern from the RCRA Closure. In summary, the laboratory analytical results indicated the presences of several petroleum-related VOCs in the upgradient well. Very few SVOCs exceedances above the TOGS Ambient Water Quality Standards were detected. The VOCs and SVOCs contaminants were attributed to an offsite source. No metal contaminants in exceedance of the TOGS Ambient Water Quality Standards was detected. One sub-slab vapor sample was collected beneath the floor of the office area and analyzed for VOCs using EPA method TO-15. The laboratory analytical report for the sub-slab vapor sample indicated TCE was present at an elevated concentration of at 82.8 ug/m³.

Post-RCRA Remedial Activities

The investigation completed under the RCRA Closure program revealed that contamination remained at the Site. More specifically, the investigative activities identified the contaminants of concerns as cadmium, chromium, copper, and to a lesser extent nickel in the soil as well as TCE in the soil vapor.

To address the contamination revealed from the RCRA Closure activities, an Interim Remedial Measures (IRM) Work Plan dated November 6, 2017 was prepared and submitted to the NYSDEC for approval. Upon approval, the IRM was implemented as outlined in the Work Plan. The IRM consisted of excavation in the Alleyway with clean soil replacement, installation of a Sub-Slab Depressurization System, a site cover system, and a post-remediation groundwater monitoring program.

3.0 REMEDIAL PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

The remedial actions performed at the site have been effective and protective of human health.

PERFORMANCE

The soil excavation activities have been completed. A sub-slab depressurization system (SSDS) has been installed and remains in operation. Groundwater and indoor air monitoring are completed on an annual basis.

EFFECTIVENESS

The remedy has been effective. The site is completely covered by a pavement or concrete slab cap. An SSDS has been installed and is in operation.

PROTECTIVENESS

The remedy is protective

- The entire property is capped with pavement or a concrete slab.
- The active SSD system is maintaining negative pressure below the slab. Indoor air sample results do not exceed the NYSDOH matrices values.
- Three rounds of samples collected from the Site's downgradient well and analyzed do not indicate that groundwater below the site has been negatively impacted by the past activities at Duraspec.

4.0 INSTITUTIONAL CONTROL/ENGINEERING CONTROL (IC/ECs) PLAN

A. IC/EC Requirements and Compliance

The following institutional controls for this Site have been implemented by the property owner:

- 1) The property may only be used for commercial and industrial use;
- 2) All ECs must be operated and maintained as specified in the SMP;
- 3) All ECs must be inspected at a frequency and in a manner defined in the SMP;
- 4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- 5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- 6) Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- 7) All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- 8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- 9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- 10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- 11) The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries and any potential impacts that are identified must be monitored or mitigated; and
- 12) Vegetable gardens and farming on the Site are prohibited. The property owner has implemented these twelve institutional controls.

The following engineering controls for this Site have been implemented by the property owner and are in good condition:

1) In Plating Area 1, a section of 4-inch diameter perforated PVC pipe surrounded with filter fabric was placed in the bottom of an excavation. The pipe was placed with the perforation holes facing downward so that condensation water can drain from the pipe. The pipe was then covered with $\frac{3}{4}$ - inch graded recycled concrete aggregate followed by a 20-mil vapor barrier as manufactured by Stego™ and installed in accordance with the manufacturer's recommendations.

Plating Area 2, which was excavated to a depth of 11 feet below sidewalk grade, was completed as a basement. A section of 4-inch diameter perforated PVC pipe surrounded with filter fabric was placed in the bottom of the excavation. The pipe was then covered with $\frac{3}{4}$ - inch graded recycled concrete aggregate followed by a 20-mil vapor barrier;

Trenches were cut into the floors of the former Office and the Shipping & Receiving area. These trenches were excavated to a depth of approximately 1 foot below grade. A section of 4-inch diameter perforated PVC pipe surrounded with filter fabric were placed in the bottom of the trenches. The pipe was then covered with $\frac{3}{4}$ - inch graded recycled concrete aggregate. The trench was then covered with 6 inches of concrete;

Four-inch diameter sheet metal risers were extended from the vent pipes to the roof. A sign was posted on the duct that says "This is part of a Sub Slab Depressurization System. Do not alter or disconnect". The fans were connected to their respected risers. An electrical connection was completed along with a weather tight on/off switch. A vacuum switch was installed within the duct work servicing each fan.

2) Site Cover System: After the placement of the soil, piping, aggregate, and vapor barriers were completed, new concrete floors at least 4-inches thick were poured to serve as a cap between the underlying soil and future occupants of the building. The area of excavation in the alleyway was also restored with a concrete or asphalt cover.

B. IC/EC Certification

We certify that the ICs and ECs for this project are: in place and effective; are performing as designed; nothing has occurred that would impair the ability of the controls to protect public health and the environment; no violations have occurred and there were no failures to comply with the Site Management Plan; site access is available to maintain the engineering controls; and, there is no groundwater usage at the site.

A PRR Certification Form is included in Appendix A.

5.0 MONITORING PLAN COMPLIANCE REPORT

Groundwater Sampling Procedures

In the 2020-2021 Periodic Review Report, AMEC recommended that groundwater sampling be discontinued after the 2020 sampling event. Samples from the Sites downgradient well taken over the three rounds of sampling indicate the site has not been negatively impacted by the past activities at Duraspec. NYSDEC approved this request on May 28, 2021.

Indoor Air Monitoring Procedures

Also in accordance with the SMP, indoor air samples were collected, on an annual basis during the winter heating season, at the former Durapsec Electroplating Facility (currently RCA Stone &

Tiles) on the first floor and in the basement. Sample location maps are included on Figures 2 and 3. Samples were collected using Summa Canisters calibrated to collect air for an 8-hour period. The samples were delivered to an ELAP-approved Laboratory and are analyzed for halogenated volatile organic compounds using EPA Method TO-15.

Summary of Results

Since the SSDS was placed into operation, there have been no exceedances of the NYSDOH indoor air Matrices for PCE or TCE. In November 2021 TCE was not detected in either of the indoor air samples. PCE was detected at 0.251 and 0.231 ug/m³. Carbon tetrachloride, a substance not related to the operations at Duraspec and not detected in the previous soil vapor samples, was detected between 0.409 and 0.415 ug/m³ during the most recent sampling round. The data collected from the November 2021 sampling round is included on Table 1. A presentation of the historical detections during the last three sampling rounds are included on Table 2.

6.0 OPERATIONS AND MAINTENANCE PLAN

Operations and Maintenance (O&M) procedures that apply to the Fantech® fans includes a physical inspection of the fans to confirm that air is being discharged and that the units are operating. No other maintenance is recommended in the owner's manual.

All of the SSD fans and piping were inspected during the November 2021 sampling event and everything was observed to be in good working order. A map summarizing our observations is included as Figure 4.

The exterior pavement and interior floor slabs (the capping system) were observed to be in good condition on the date of our inspections.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

- On November 19, 2021, AMEC conducted an annual physical inspection of SSD system. The fans were operating and the ducts, floor and pavement were in good condition. TCE was not detected in either of the indoor air samples. PCE was detected at 0.251 and 0.231 ug/m³, which are both below the NYSDOH indoor air Matrices.
- We recommend that the SSD system remain in operation and that monitoring continue as outlined in the SMP.
- Prior to the 2022 sampling event, AMEC will notify the tenants in advance in order to make sure the vacuum monitoring points on the riser vents are accessible.

REFERENCES

1. Amec (May 2019) Site Management Plan, Former Duraspec Electroplating Facility, 87-83 139th Street, Jamaica, NY 11435.
2. Amec (May 2021) 2020-2021 Periodic Review Report, Former Duraspec Electroplating Facility, 87-83 139th Street, Jamaica, NY 11435.

FIGURES

- 1. Site Map**
- 2. Indoor Air Sampling Locations, First Floor**
- 3. Indoor Air Sampling Locations, Basement**
- 4. SSD System Annual Vacuum Readings**

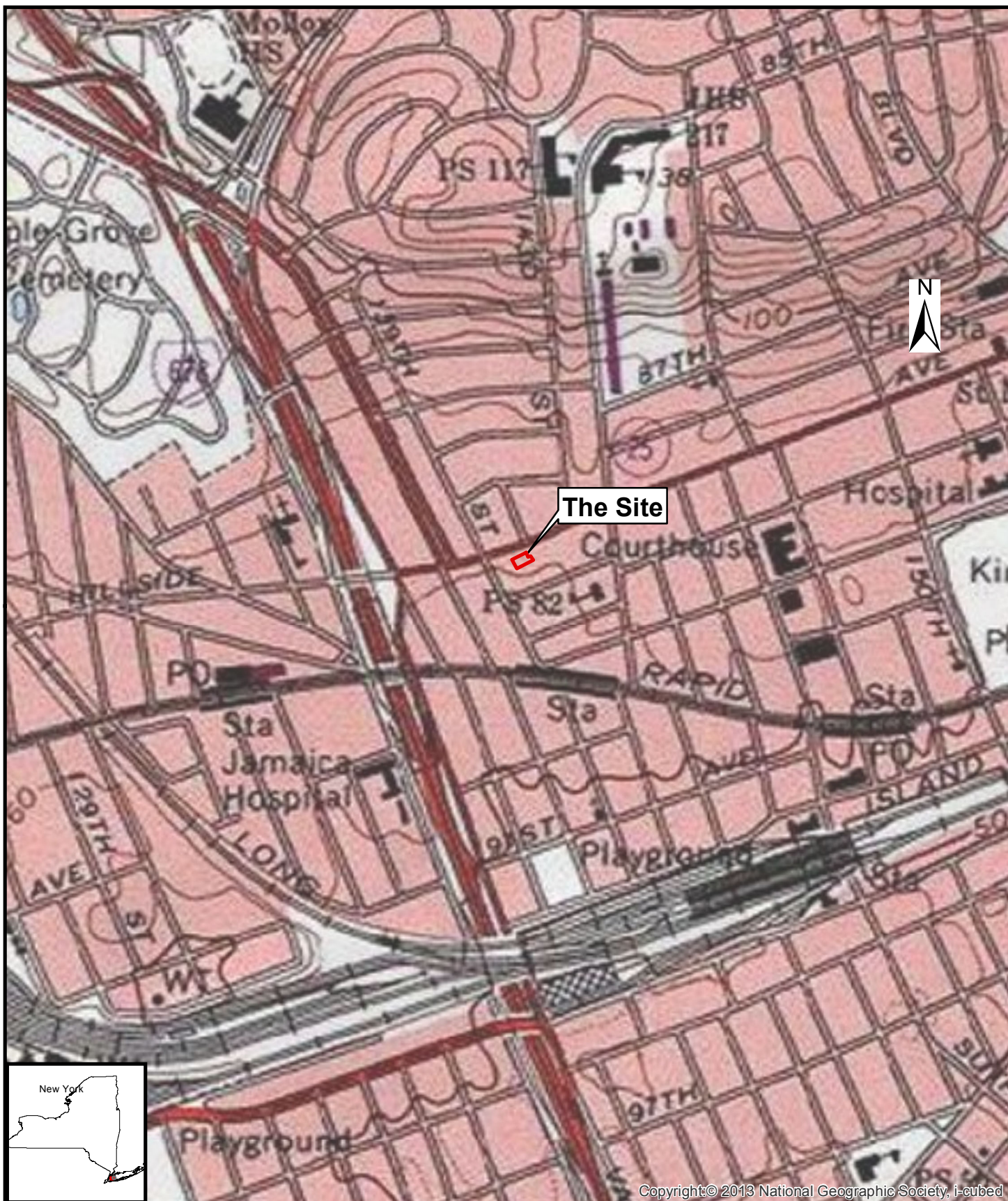


Figure 1
Site Location Map

Former Duraspec Electroplating, Inc.
87-83 139th Street, Jamaica, NY 11435

0 500 1,000
Feet

Prepared/Date: JCL 11/7/18 Checked/Date: EAW 11/7/18



Location Matrix Date Sampled	Former Duraspec Electroplating Facility/RCA Stone & Tiles				MON./MIT. for IAQ & AA Indoor Air (1)	NYSDOH Action Levels Indoor Air (2)
	Indoor Air 1/16/2019	Indoor Air 2/12/2020	Indoor Air 12/29/2020	Indoor Air 11/19/21		
Level	First Floor	First Floor	First Floor	First Floor		
Sample ID	IAQ-FIRST-012019	IAQ-FIRST-022020	IAQ-FIRST-122020	IAQ-BASEMENT- 112021		
Sample Method	TO-15 SIM	TO-15 SIM	TO-15 SIM	TO-15 SIM		
Parameter						
Methylene Chloride (µg/m3)	7.3	ND	ND	ND	3	60
Carbon Tetrachloride (µg/m3)	0.56	0.352	0.459	0.409	0.2	NS
Tetrachloroethene (µg/m3)	0.42	2.04	0.8	0.251	3	30
Trichloroethene (µg/m3)	ND	ND	ND	ND	0.2	2

Notes:

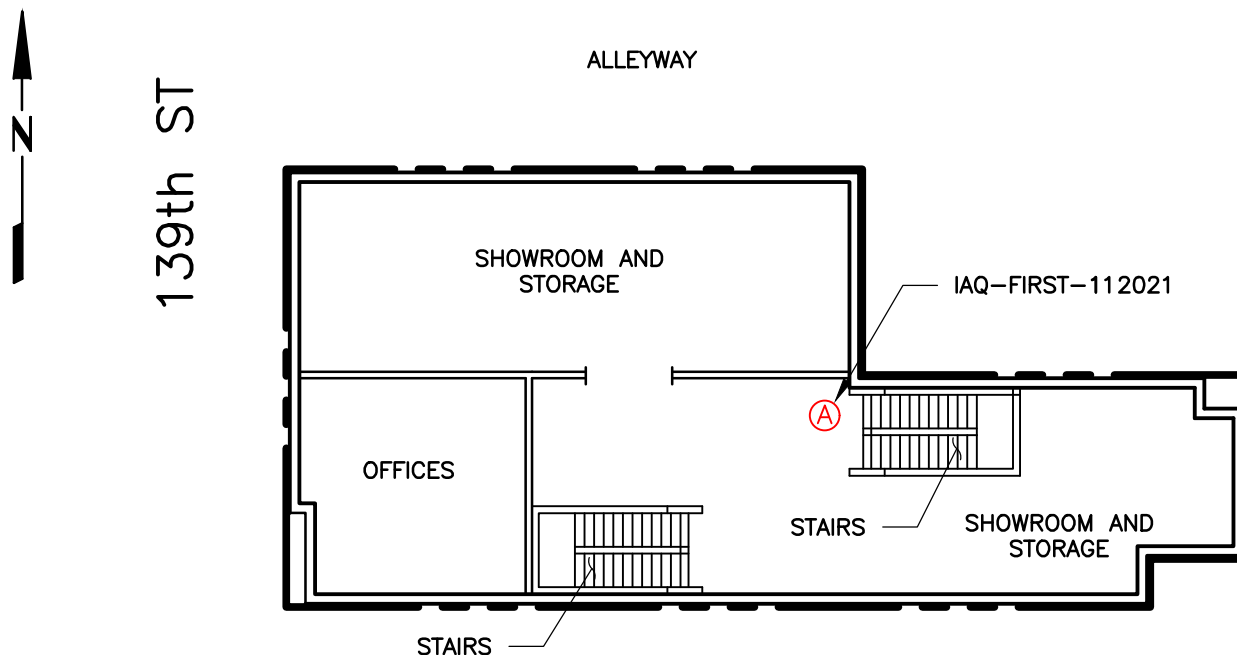
µg/m3 - micrograms per cubic meter

NS - No Standard

(1) New York State Department of Health Soil Vapor Intrusion Guidance No Further Action criteria for Indoor Air Samples

(2) New York State Department of Health Indoor Air Guideline

Concentration exceeds MON./MIT. for IAQ & AA Standard



Legend



INDOOR AIR QUALITY
SAMPLE LOCATION

0 10 20 40
SCALE IN FEET

Prepared/Date: BRT 01/03/22
Checked/Date: MB 01/03/22

Former
Duraspec Electroplating, Inc.
87-83, 139th Street,
Jamaica, NY 11435

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



Indoor Air Sampling Location
First Floor
Project 3612-16-2326
Figure 2

Location	Former Duraspec Electroplating Facility/RCA Stone & Tiles				MON./MIT. for IAQ & AA	NYSDOH Action Levels
Matrix Date Sampled	Indoor Air 1/16/2019	Indoor Air 2/12/2020	Indoor Air 12/29/2020	Indoor Air 11/19/2021	Indoor Air (1)	Indoor Air (2)
Level	Basement	Basement	Basement	Basement		
Sample ID	IAQ-BASEMENT-0119	IAQ-BASEMENT-022020	IAQ-BASEMENT-122020	IAQ-BASEMENT-112021		
Sample Method	TO-15 SIM	TO-15 SIM	TO-15 SIM	TO-15 SIM		
Parameter						
Methylene Chloride (µg/m3)	ND	ND	ND	ND	3	60
Carbon Tetrachloride (µg/m3)	0.541	0.409	0.44	0.409	0.2	NS
Tetrachloroethene (µg/m3)	0.481	1.61	0.658	0.251	3	30
Trichloroethene (µg/m3)	ND	ND	ND	ND	0.2	2

Notes:

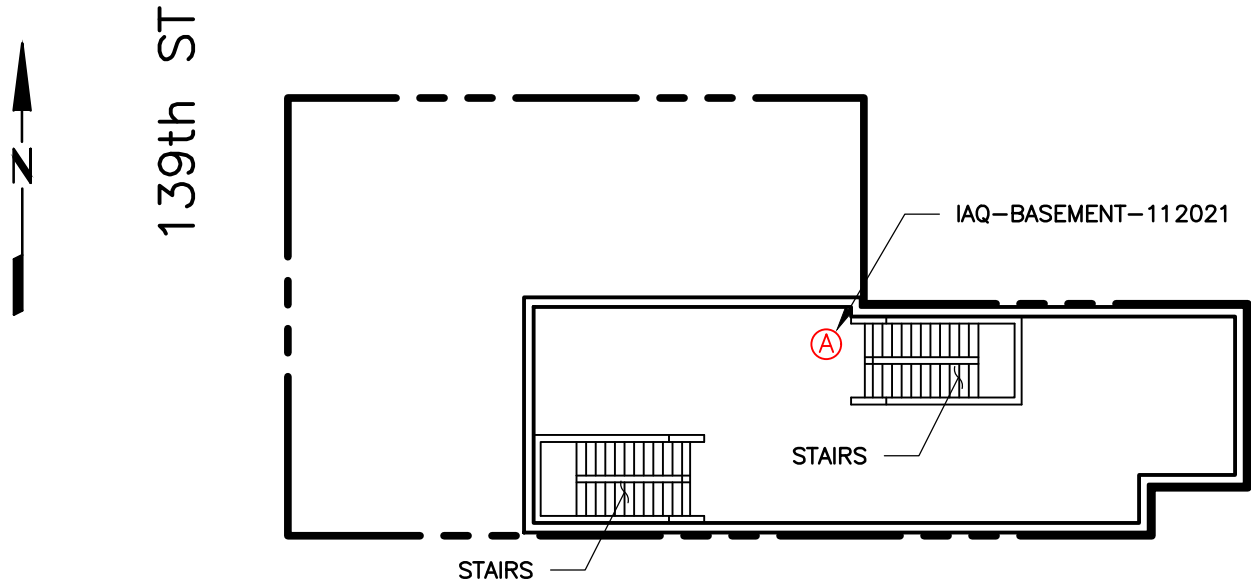
µg/m3 - micrograms per cubic meter

NS - No Standard

(1) New York State Department of Health Soil Vapor Intrusion Guidance No Further Action criteria for Indoor Air Samples

(2) New York State Department of Health Indoor Air Guideline

Concentration exceeds MON./MIT. for IAQ & AA Standard



Legend



INDOOR AIR QUALITY
SAMPLE LOCATION

0 10 20 40
SCALE IN FEET

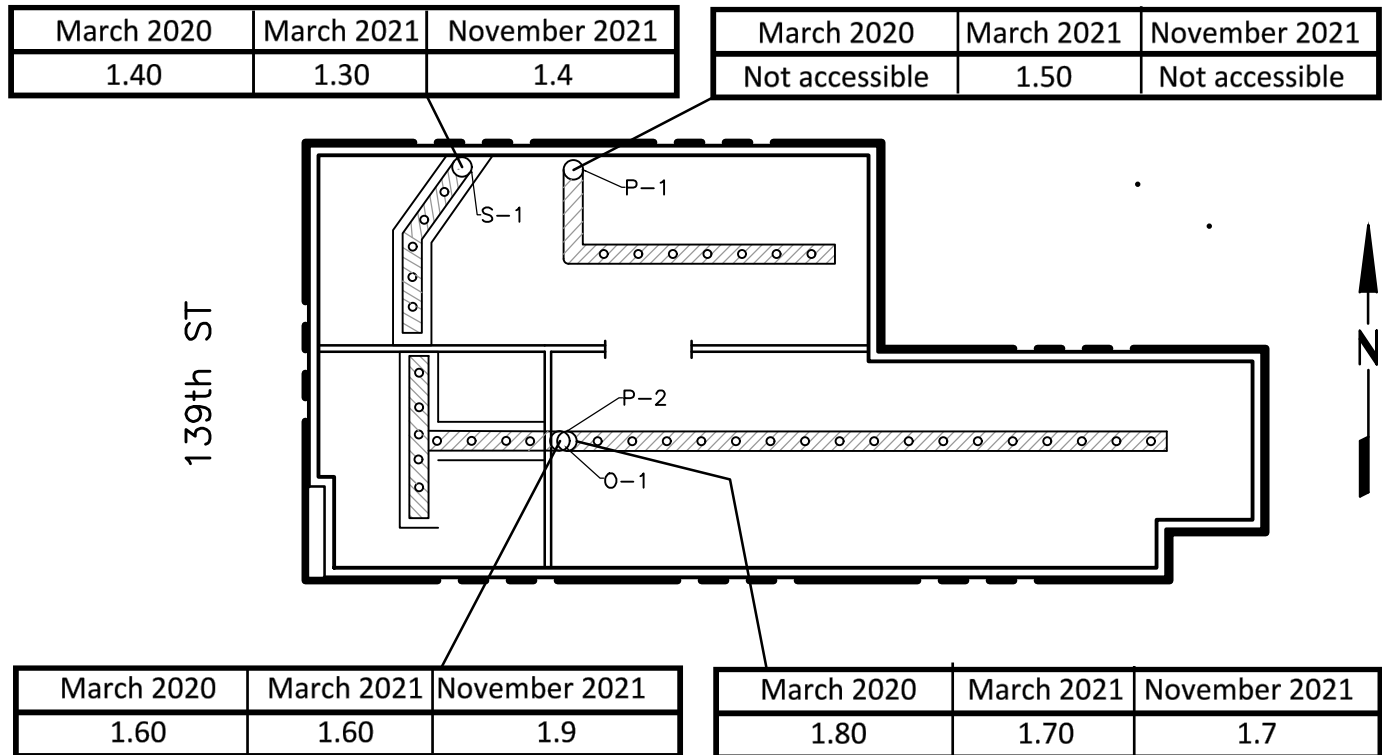
Prepared/Date: BRT 01/03/22
Checked/Date: MB 01/03/22

Former
Duraspec Electroplating, Inc.
87-83, 139th Street,
Jamaica, NY 11435

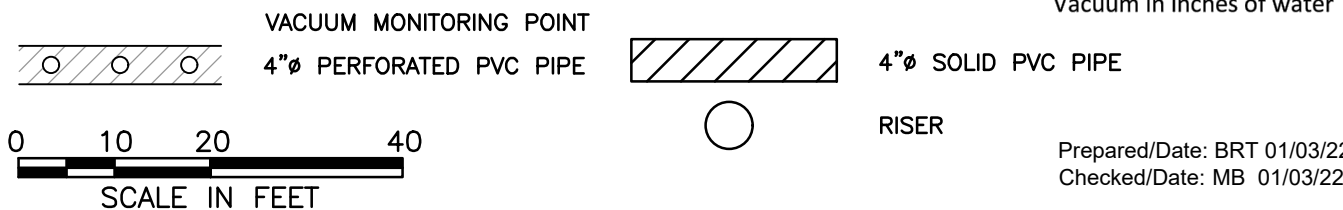
Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



Indoor Air Sampling Location
Basement
Project 3612-16-2326
Figure 3



LEGEND



Former
Duraspec Electroplating, Inc.
87-83, 139th Street,
Jamaica, NY 11435

Amec E & E, PC
1979 Marcus Ave., Suite 210
Lake Success, New York 11042
(516) 622-2254



SSD SYSTEM
ANNUAL VACUUM READING
Project 3612-16-2326
Figure 4

Prepared/Date: BRT 01/03/22
Checked/Date: MB 01/03/22

TABLES

- 1. Indoor Air Sample Results**
- 2. Historical Indoor Air Sample Results for Contaminants of Concern**

TABLE 1:
2022 FORMER DURASPEC ELECTROPLATING
VAPOR INTRUSION SAMPLING
87-83 139TH STREET, JAMAICA, NY

ANALYTE (µg/m3)	SAMPLE ID: COLLECTION DATE: SAMPLE LOCATION SAMPLE MATRIX:		IAQ-BASEMENT-112021 11/19/2021 BASEMENT IAQ		IAQ-FIRST-112021 11/19/2021 FIRST FLOOR IAQ	
	MON./MIT. for IAQ & AA	IAQ Guideline for IAQ & AA	Conc	Qual	Conc	Qual
Volatile Organics in Air						
1,1,2,2-Tetrachloroethane	NS	NS	1.37	U	1.37	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	NS	NS	1.53	U	1.53	U
1,1,2-Trichloroethane	NS	NS	1.09	U	1.09	U
1,1-Dichloroethane	NS	NS	0.809	U	0.809	U
1,2,4-Trichlorobenzene	NS	NS	1.48	U	1.48	U
1,2,4-Trimethylbenzene	NS	NS	0.983	U	0.983	U
1,2-Dibromoethane	NS	NS	1.54	U	1.54	U
1,2-Dichlorobenzene	NS	NS	1.2	U	1.2	U
1,2-Dichloroethane	NS	NS	0.809	U	0.809	U
1,2-Dichloropropane	NS	NS	0.924	U	0.924	U
1,3,5-Trimethylbenzene	NS	NS	0.983	U	0.983	U
1,3-Butadiene	NS	NS	0.442	U	0.442	U
1,3-Dichlorobenzene	NS	NS	1.2	U	1.2	U
1,4-Dichlorobenzene	NS	NS	1.2	U	1.2	U
1,4-Dioxane	NS	NS	0.721	U	0.721	U
2-Butanone	NS	NS	1.47	U	1.47	U
2-Hexanone	NS	NS	0.82	U	0.82	U
4-Ethyltoluene	NS	NS	0.983	U	0.983	U
4-Methyl-2-pentanone	NS	NS	2.05	U	2.05	U
Acetone	NS	NS	8.29	J-	5.11	J-
Benzene	NS	NS	0.639	U	0.639	U
Benzyl chloride	NS	NS	1.04	U	1.04	U
Bromodichloromethane	NS	NS	1.34	U	1.34	U
Bromoform	NS	NS	2.07	U	2.07	U
Bromomethane	NS	NS	0.777	U	0.777	U
Carbon disulfide	NS	NS	0.623	U	0.623	U
Chlorobenzene	NS	NS	0.921	U	0.921	U
Chloroethane	NS	NS	0.528	U	0.528	U
Chloroform	NS	NS	0.977	U	0.977	U
Chloromethane	NS	NS	1.08	U	1.06	U
cis-1,3-Dichloropropene	NS	NS	0.908	U	0.908	U
Cyclohexane	NS	NS	0.688	U	0.688	U
Dibromochloromethane	NS	NS	1.7	U	1.7	U
Dichlorodifluoromethane	NS	NS	2.23	U	2.12	U
Ethanol	NS	NS	22.2	J-	19.6	J-
Ethyl acetate	NS	NS	1.8	U	1.8	U
Ethylbenzene	NS	NS	0.869	U	0.869	U
Heptane	NS	NS	0.82	U	0.82	U
Hexachlorobutadiene	NS	NS	2.13	U	2.13	U
Hexane	NS	NS	0.705	U	0.705	U
Methyl Tertbutyl Ether	NS	NS	0.721	U	0.721	U
Methylene chloride	NS	NS	1.74	U	1.74	U
Styrene	NS	NS	0.852	U	0.852	U
t-Butyl alcohol	3	60	1.52	U	1.52	U
Tetrahydrofuran	NS	NS	1.47	U	1.47	U
Toluene	NS	NS	1.8	U	1.91	U
trans-1,2-Dichloroethene	NS	NS	0.793	U	0.793	U
trans-1,3-Dichloropropene	NS	NS	0.908	U	0.908	U
Trichlorofluoromethane	NS	NS	1.19	U	1.17	U
Vinyl bromide	NS	NS	0.874	U	0.874	U
Xylene, o	NS	NS	0.869	U	0.869	U
Xylenes (m&p)	NS	NS	1.74	U	1.74	U
Xylenes, Total	NS	NS	0.869	U	0.869	U
Volatile Organics in Air by SIM						
1,1,1-Trichloroethane	3	NS	0.109	U	0.109	U
1,1-Dichloroethene	0.2	NS	0.079	U	0.079	U
Carbon tetrachloride	0.2	NS	0.409	U	0.415	U
cis-1,2-Dichloroethene	0.2	NS	0.079	U	0.079	U
Tetrachloroethene	3	30	0.251	U	0.231	U
Trichloroethene	0.2	2	0.107	U	0.107	U
Vinyl chloride	0.2	NS	0.051	U	0.051	U
Notes: µg/m3 micrograms/cubic meter Bold Analyte detected for sample U Not detected at the reported detection limit for the sample MON./MIT. for IAQ & AA New York State Department of Health Soil Vapor Intrusion Guidance No Further Action criteria for Indoor Air Samples NYSDOH IAQ Guideline New York State Department of Health Indoor Air Guideline						

Table 2
Historical Indoor Air Sample Results for Contaminants of Concern
Former Duraspec Electroplating Facility
87-83 139th Street, Jamaica, NY

Location Matrix Date Sampled	Former Duraspec Electroplating Facility/RCA Stone & Tiles				MON./MIT. for IAQ & AA Indoor Air (1)	NYSDOH Action Levels Indoor Air (2)
	Indoor Air 1/16/2019	Indoor Air 2/12/2020	Indoor Air 12/29/2020	Indoor Air 11/19/2021		
Level	First Floor	First Floor	First Floor	First Floor		
Sample ID	IAQ-FIRST-012019	IAQ-FIRST-022020	IAQ-FIRST-122020	IAQ-BASEMENT-112021		
Sample Method	TO-15 SIM	TO-15 SIM	TO-15 SIM	TO-15 SIM		
Parameter						
Methylene Chloride (µg/m3)	7.3	ND	ND	ND	3	60
Carbon Tetrachloride (µg/m3)	0.56	0.352	0.459	0.409	0.2	NS
Tetrachloroethene (µg/m3)	0.42	2.04	0.8	0.251	3	30
Trichloroethene (µg/m3)	ND	ND	ND	ND	0.2	2
Level	Basement	Basement	Basement	Basement		
Sample ID	IAQ-BASEMENT-0119	IAQ-BASEMENT-022020	IAQ-BASEMENT-122020	IAQ-BASEMENT-112021		
Sample Method	TO-15 SIM	TO-15 SIM	TO-15 SIM	TO-15 SIM		
Parameter						
Methylene Chloride (µg/m3)	ND	ND	ND	ND	3	60
Carbon Tetrachloride (µg/m3)	0.541	0.409	0.44	0.409	0.2	NS
Tetrachloroethene (µg/m3)	0.481	1.61	0.658	0.251	3	30
Trichloroethene (µg/m3)	ND	ND	ND	ND	0.2	2

Notes:

µg/m3 - micrograms per cubic meter

NS - No Standard

(1) New York State Department of Health Soil Vapor Intrusion Guidance No Further Action criteria for Indoor Air Samples

(2) New York State Department of Health Indoor Air Guideline

Concentration exceeds MON./MIT. for IAQ & AA Standard

APPENDIX A – CERTIFICATION FORM



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



Site Details

Box 1

Site No. **241204**

Site Name **Former Duraspec Electroplating**

Site Address: 87-83 139th Street Zip Code: 11435
City/Town: Jamaica
County: Queens
Site Acreage: 0.093

Reporting Period: December 12, 2020 to December 12, 2021

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

Description of Institutional ControlsParcelOwnerInstitutional Control**9685-50**

Hastings Capital, LLC

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

- The property may be used for commercial use;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Queens Department of Health to render it safe for use as drinking water or for industrial purpose, and the user must first notify and obtain written approval to do so from the Department;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

Description of Engineering ControlsParcelEngineering Control**9685-50**

Vapor Mitigation
Cover System

- A cover system was installed consisting of a concrete slab at least 4-inches in thick.
- A Sub-Slab Depressurization System with two fans and a plastic vapor barrier were installed below the concrete slab.

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. 241204

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.

Robert Birnbaum at Hastings Capital, LLC
100 Field Street
West Babylon, NY 11704
print name print business address

am certifying as OWNER (Owner or Remedial Party)

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

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

1-5-22
Date

EC CERTIFICATIONS

Box 7

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.

I Eric Weinstock at 204-35 suite 203, Bayside, NY 11361
print name print business address

am certifying as a for the Owner
(Owner or Remedial Party)



Eric Weinstock

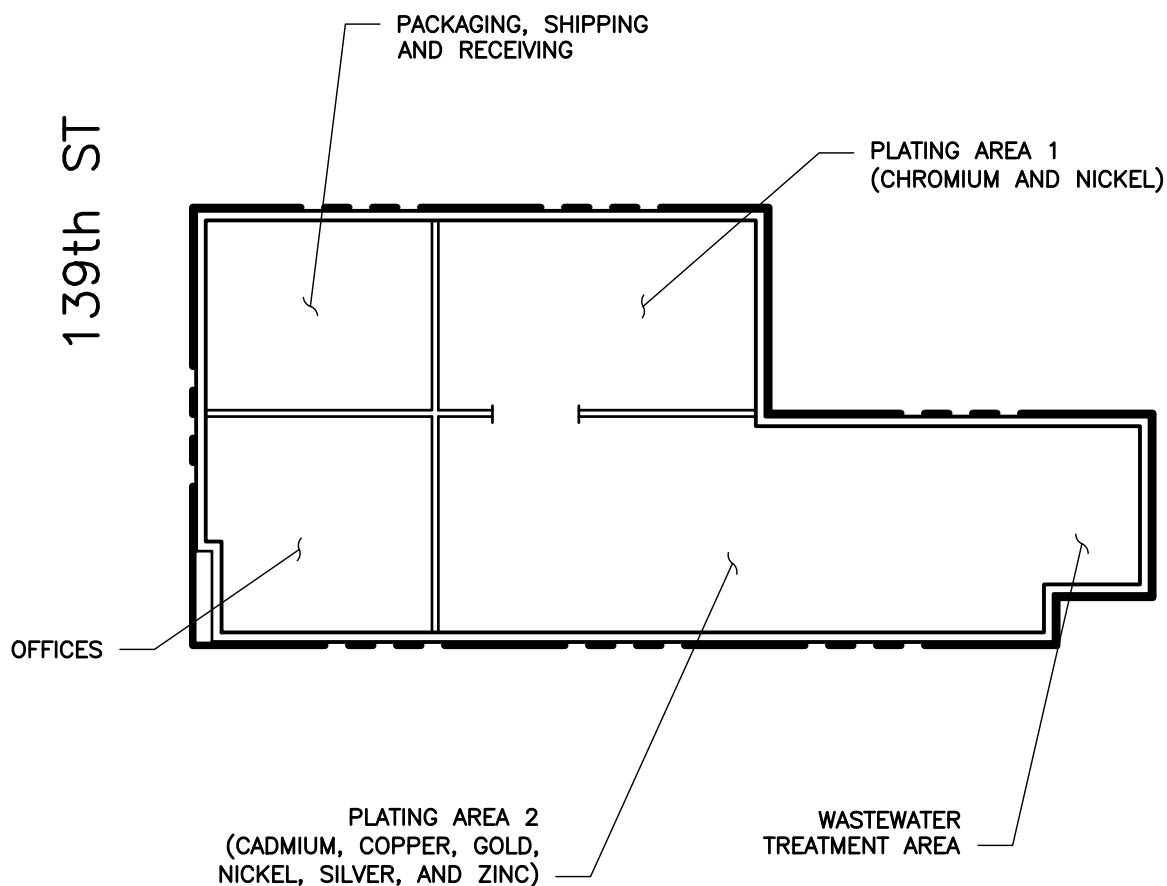
Signature of , for the Owner or Remedial Party,
Rendering Certification

Stamp
(Required for PE)

1/6/2022

Date

APPENDIX B – PLANT LAYOUT



0 10 20 40
SCALE IN FEET

Prepared/Date: WJW 3/27/2017
Checked/Date: EAW 3/27/2017

Former
Duraspec Electroplating, Inc.
87-83, 139th Street,
Jamaica, NY 11435

Amec E & E, PC
214-25 42nd Ave. Suite 3R
Bayside, New York 11361
347-836-4343



Plant Layout

Project 3612-162-326
Figure 5

APPENDIX C – IAQ QUESTIONNAIRE

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Mike Bates Date/Time Prepared 11/20/2021
Preparer's Affiliation Contractor Phone No. 914 355-0693
Purpose of Investigation Annual Check of SSDs

1. OCCUPANT:

Interviewed: Y/☒ N

Last Name: NA First Name: NA

Address: 87-83 134th Street, Jamaica

County: Queens

Home Phone: _____ Office Phone: (888) 475-4754

Number of Occupants/persons at this location 1 Age of Occupants _____

2. OWNER OR LANDLORD: (Check-if same as occupant ☐)

Interviewed: Y/☒ N Hostings Capital

Last Name: NA First Name: NA

Address: 100 Field Street, West Babylon

County: Suffolk

Home Phone: NA Office Phone: (631) 293-1998

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

☐ Ranch	☐ 2-Family	☐ 3-Family
☐ Raised Ranch	☐ Split Level	☐ Colonial
☐ Cape Cod	☐ Contemporary	☐ Mobile Home
☐ Duplex	☐ Apartment House	☐ Townhouses/Condos
☐ Modular	☐ Log Home	Other: _____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Selling Tile

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 4

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with Concrete
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with paint
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 12 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

None identified

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation Space Heaters Heat pump Hot water baseboard
Electric baseboard Steam radiation Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene
Electric Propane Solar
Wood Coal

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?

(Y/N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

N/A

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time

Occasionally

Seldom

(Almost Never)

Level

General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement

Storage

1st Floor

Storage + Selling Tile

2nd Floor

Offices

3rd Floor

NA

4th Floor

NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

Y / (N)

b. Does the garage have a separate heating unit?

Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

Y / N / (NA)

Please specify

d. Has the building ever had a fire?

Y / (N)

When?

e. Is a kerosene or unvented gas space heater present?

Y / (N)

Where?

f. Is there a workshop or hobby/craft area?

Y / (N)

Where & Type?

g. Is there smoking in the building?

Y / (N)

How frequently?

h. Have cleaning products been used recently?

Y / (N)

When & Type?

i. Have cosmetic products been used recently?

Y / (N)

When & Type?

j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____

l. Have air fresheners been used recently? Y / ☒ N When & Type? _____

m. Is there a kitchen exhaust fan? Y / ☒ N If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / ☒ N If yes, where vented? _____

o. Is there a clothes dryer? Y / ☒ N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building?

Y / ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work?

Y / ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

☒ No
☐ Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

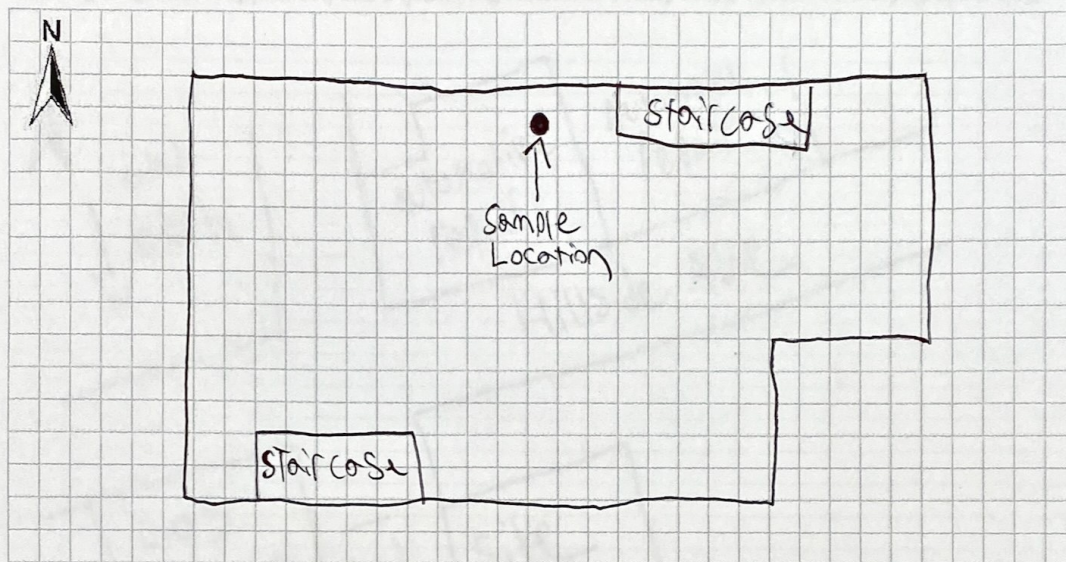
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

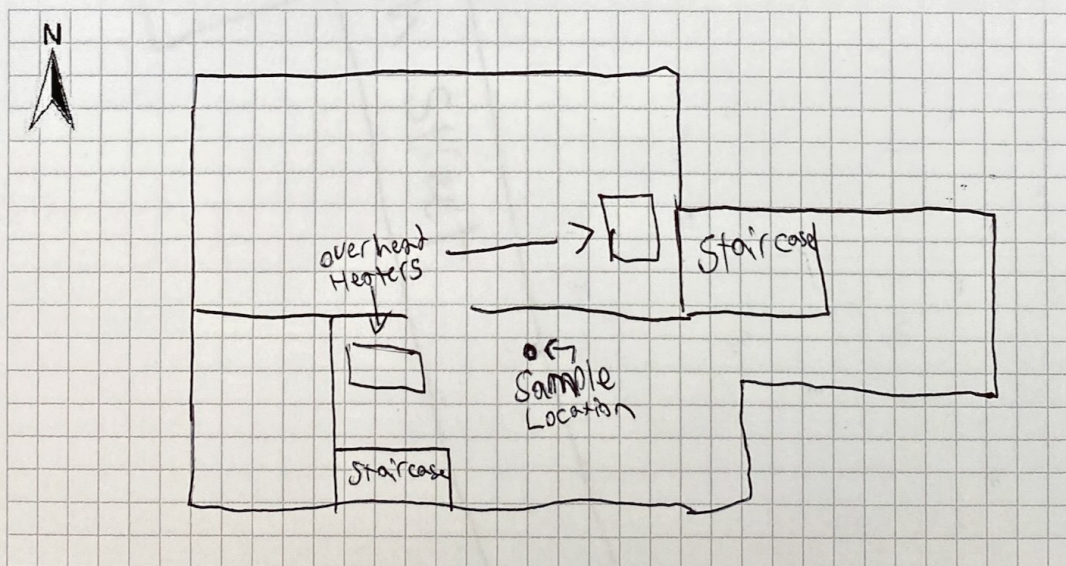
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



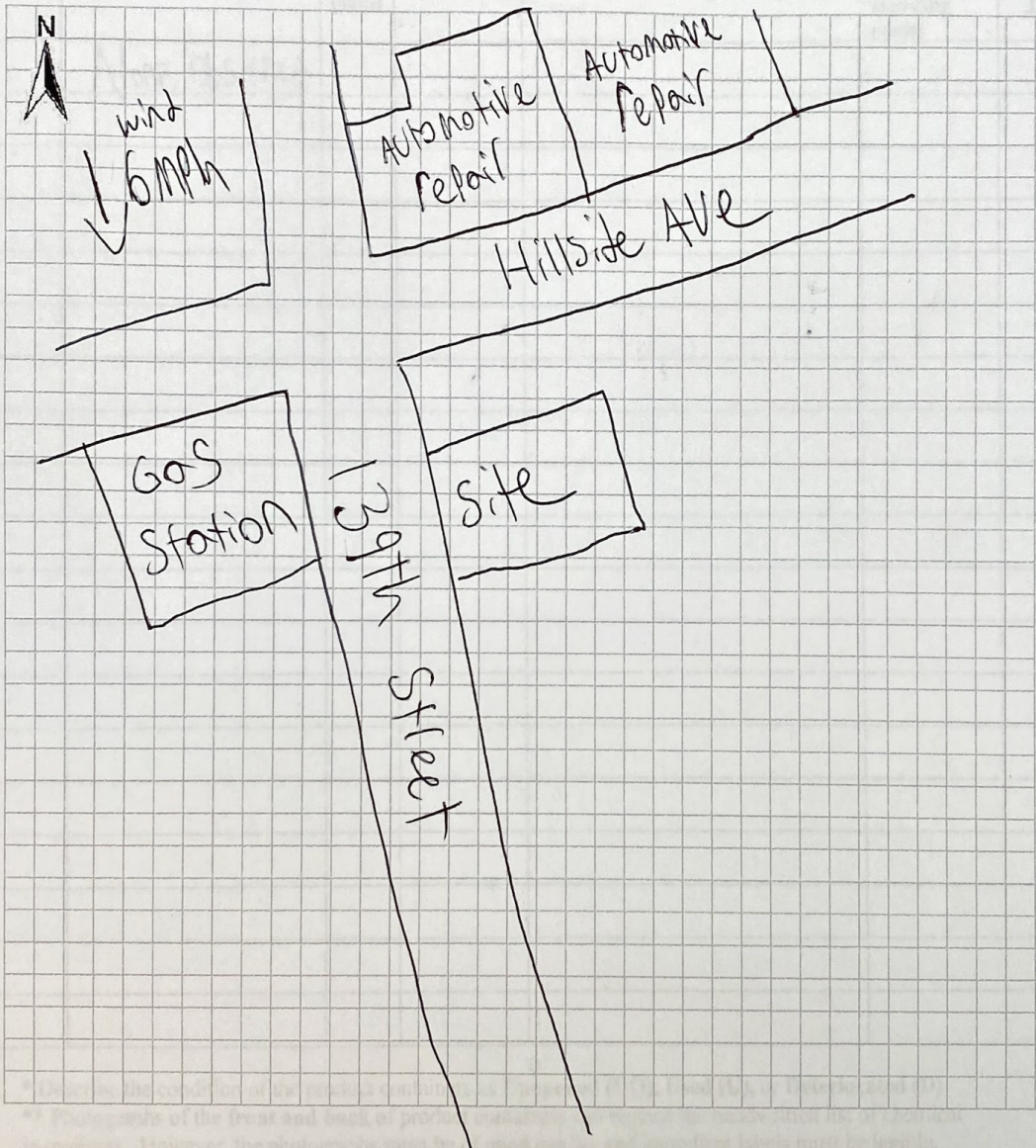
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

APPENDIX D – DUSR

**DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK**

1.0 INTRODUCTION

Air samples were collected at the Hastings Capital - Duraspec site in November 2021 and submitted to Alpha Analytical Laboratories, located in Westborough, Massachusetts, for analysis. Samples were analyzed by one or more of the following methods:

- VOCs in Air by Method TO-15 and TO-15 Selected Ion Monitoring (SIM)

Results were reported in the following sample delivery groups (SDGs):

- L2164604

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010) and the Project Quality Assurance Project Plan (QAPP) [AMEC, 2016]. Sample event information included in this DUSR is presented in the following tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the checks listed below. A table of the project control limits used for QC evaluations is presented in Attachment A. Applicable laboratory QC summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)
- Surrogate Spikes/Isotope Dilutions (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation

- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2016a) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit

J = concentration is estimated

J- = concentration is estimated with a potential low bias

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the majority of data can be used as reported by the laboratory. Results for a subset of samples were qualified during the DUSR review. Data qualification actions are summarized on Table 3. Data usability limitations for analytical method results are discussed in the following sections.

VOCs by TO-15

Results for ethanol and acetone in samples IAQ-BASEMENT-112021 and IAQ-FIRST-112021 were qualified estimated with potential low bias (J-) based on low recoveries in the associated LCS/LCSD. Qualified results are included in Table 3 with reason code LCSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

There were no additional observations or quality control exceedances not specifically addressed above (Section 2.0) or included in Table 3. Unless presented in Table 3, sample results are interpreted to be usable as reported by the laboratory.

Reference:

AMEC Environment and Infrastructure (Amec), 2016. Closure Plan Appendix N Quality Assurance Project Plan; October 12, 2016.

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; June 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2016a. "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15"; SOP NO. HW-31; Revision 6; Hazardous Waste Support Section; September 2016.

December 17, 2021

Data Validator: Amber Jones

A handwritten signature in black ink, appearing to read "Amber Jones".

December 15, 2021

Reviewed by: Julie Ricardi

A handwritten signature in black ink, appearing to read "Julie Ricardi".

December 17, 2021

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRSRSD – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1
DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK

SDG	Location	Field Sample ID	Sample Date	Media	Lab Sample ID	Method	TO-15	TO15 SIM
						Fraction	N	N
						QC Code	Count	Count
L2164604	IAQ-BASEMENT	IAQ-BASEMENT-112021	11/19/2021	AIR	L2164604-01	FS	59	8
L2164604	IAQ-FIRST	IAQ-FIRST-112021	11/19/2021	AIR	L2164604-02	FS	59	8

TABLE 2
DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK

		SDG	L2164604		L2164604
		Location	IAQ-BASEMENT		IAQ-FIRST
		Sample Date	11/19/2021		11/19/2021
		Sample ID	IAQ-BASEMENT-112021		IAQ-FIRST-112021
		QC Code	FS		FS
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result
TO-15	1,1,2,2-Tetrachloroethane	UG/M3	1.37 U		1.37 U
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/M3	1.53 U		1.53 U
TO-15	1,1,2-Trichloroethane	UG/M3	1.09 U		1.09 U
TO-15	1,1-Dichloroethane	UG/M3	0.809 U		0.809 U
TO-15	1,2,4-Trichlorobenzene	UG/M3	1.48 U		1.48 U
TO-15	1,2,4-Trimethylbenzene	UG/M3	0.983 U		0.983 U
TO-15	1,2-Dibromoethane	UG/M3	1.54 U		1.54 U
TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	UG/M3	1.4 U		1.4 U
TO-15	1,2-Dichlorobenzene	UG/M3	1.2 U		1.2 U
TO-15	1,2-Dichloroethane	UG/M3	0.809 U		0.809 U
TO-15	1,2-Dichloroethene (total)	UG/M3	0.793 U		0.793 U
TO-15	1,2-Dichloropropane	UG/M3	0.924 U		0.924 U
TO-15	1,3,5-Trimethylbenzene	UG/M3	0.983 U		0.983 U
TO-15	1,3-Butadiene	UG/M3	0.442 U		0.442 U
TO-15	1,3-Dichlorobenzene	UG/M3	1.2 U		1.2 U
TO-15	1,3-Dichloropropene (total)	UG/M3	0.908 U		0.908 U
TO-15	1,4-Dichlorobenzene	UG/M3	1.2 U		1.2 U
TO-15	1,4-Dioxane	UG/M3	0.721 U		0.721 U
TO-15	2-Butanone	UG/M3	1.47 U		1.47 U
TO-15	2-Hexanone	UG/M3	0.82 U		0.82 U
TO-15	2-Propanol	UG/M3	2.3		1.51
TO-15	4-Ethyltoluene	UG/M3	0.983 U		0.983 U
TO-15	4-Methyl-2-pentanone	UG/M3	2.05 U		2.05 U
TO-15	Acetone	UG/M3	8.29 J-		5.11 J-
TO-15	Allyl chloride	UG/M3	0.626 U		0.626 U
TO-15	Benzene	UG/M3	0.639 U		0.639 U
TO-15	Benzyl chloride	UG/M3	1.04 U		1.04 U
TO-15	Bromodichloromethane	UG/M3	1.34 U		1.34 U
TO-15	Bromoform	UG/M3	2.07 U		2.07 U
TO-15	Bromomethane	UG/M3	0.777 U		0.777 U
TO-15	Carbon disulfide	UG/M3	0.623 U		0.623 U
TO-15	Chlorobenzene	UG/M3	0.921 U		0.921 U
TO-15	Chloroethane	UG/M3	0.528 U		0.528 U
TO-15	Chloroform	UG/M3	0.977 U		0.977 U
TO-15	Chloromethane	UG/M3	1.08		1.06
TO-15	cis-1,3-Dichloropropene	UG/M3	0.908 U		0.908 U

TABLE 2
DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK

		SDG	L2164604		L2164604	
		Location	IAQ-BASEMENT		IAQ-FIRST	
		Sample Date	11/19/2021		11/19/2021	
		Sample ID	IAQ-BASEMENT-112021		IAQ-FIRST-112021	
		QC Code	FS		FS	
Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier
TO-15	Cyclohexane	UG/M3	0.688 U		0.688 U	
TO-15	Dibromochloromethane	UG/M3	1.7 U		1.7 U	
TO-15	Dichlorodifluoromethane	UG/M3	2.23		2.12	
TO-15	Ethanol	UG/M3	22.2 J-		19.6 J-	
TO-15	Ethyl acetate	UG/M3	1.8 U		1.8 U	
TO-15	Ethylbenzene	UG/M3	0.869 U		0.869 U	
TO-15	Heptane	UG/M3	0.82 U		0.82 U	
TO-15	Hexachlorobutadiene	UG/M3	2.13 U		2.13 U	
TO-15	Hexane	UG/M3	0.705 U		0.705 U	
TO-15	Isooctane	UG/M3	0.934 U		0.934 U	
TO-15	Methyl Tertbutyl Ether	UG/M3	0.721 U		0.721 U	
TO-15	Methylene chloride	UG/M3	1.74 U		1.74 U	
TO-15	Styrene	UG/M3	0.852 U		0.852 U	
TO-15	t-Butyl alcohol	UG/M3	1.52 U		1.52 U	
TO-15	Tetrahydrofuran	UG/M3	1.47 U		1.47 U	
TO-15	Toluene	UG/M3	1.8		1.91	
TO-15	trans-1,2-Dichloroethene	UG/M3	0.793 U		0.793 U	
TO-15	trans-1,3-Dichloropropene	UG/M3	0.908 U		0.908 U	
TO-15	Trichlorofluoromethane	UG/M3	1.19		1.17	
TO-15	Vinyl bromide	UG/M3	0.874 U		0.874 U	
TO-15	Xylene, o	UG/M3	0.869 U		0.869 U	
TO-15	Xylenes (m&p)	UG/M3	1.74 U		1.74 U	
TO-15	Xylenes, Total	UG/M3	0.869 U		0.869 U	
TO15 SIM	1,1,1-Trichloroethane	UG/M3	0.109 U		0.109 U	
TO15 SIM	1,1-Dichloroethene	UG/M3	0.079 U		0.079 U	
TO15 SIM	1,2-Dichloroethene (total)	UG/M3	0.079 U		0.079 U	
TO15 SIM	Carbon tetrachloride	UG/M3	0.409		0.415	
TO15 SIM	cis-1,2-Dichloroethene	UG/M3	0.079 U		0.079 U	
TO15 SIM	Tetrachloroethene	UG/M3	0.251		0.231	
TO15 SIM	Trichloroethene	UG/M3	0.107 U		0.107 U	
TO15 SIM	Vinyl chloride	UG/M3	0.051 U		0.051 U	

TABLE 3
DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK

SDG	Method	Lab Sample ID	Sample Date	Field Sample ID	Fraction	Parameter Name	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
L2164604	TO-15	L2164604-01	11/19/2021	IAQ-BASEMENT-112021	N	Acetone	8.29		8.29	J-	LCSL	UG/M3
L2164604	TO-15	L2164604-01	11/19/2021	IAQ-BASEMENT-112021	N	Ethanol	22.2		22.2	J-	LCSL	UG/M3
L2164604	TO-15	L2164604-02	11/19/2021	IAQ-FIRST-112021	N	Acetone	5.11		5.11	J-	LCSL	UG/M3
L2164604	TO-15	L2164604-02	11/19/2021	IAQ-FIRST-112021	N	Ethanol	19.6		19.6	J-	LCSL	UG/M3

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	Air	Air
			(%R)	(RPD)
Volatiles TO-15	Surrogate	All Surrogate Compounds	Lab Limits	
	LCS	All Target Compounds	70 - 130	25
	Field Duplicate	All Target Compounds		50

Notes:

LCS - Laboratory Control Sample

RPD = Relative percent difference

%R = percent recovery

QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives

Surrogates are not specified in the Region II Data Validation Guidelines (2016)

**DATA USABILITY SUMMARY REPORT
NOVEMBER 2021 AIR MONITORING EVENT
HASTINGS CAPITAL – DURASPEC SITE
JAMAICA, QUEENS, NEW YORK**

ATTACHMENT B

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: Duraspec November 2021

Method : TO-15/TO-15 SIM

Laboratory and SDG(s): Alpha Analytical SDG# L2164604

Date: 12/14/2021

Reviewer: Amber Jones

Review Level ☒ NYSDEC DUSR

USEPA Region II Guideline

Control limits are from EPA Region 2 - SOP# HW-31, October 2006.

1. ☒ **Case Narrative Review and Data Package Completeness** COMMENTS
Were problems noted? no problems noted
Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)
2. ☒ **Holding time and Sample Collection**
Were samples analyzed within the 30 day holding time? YES NO (circle one)
3. ☒ **QC Blanks** (use 5x rule for calculating action levels)
Are method blanks free of contamination? YES NO (circle one)
4. ☒ **Instrument Tuning – Data Package Narrative Review**
Did the laboratory narrative identify any results that were not within method criteria? YES NO
(circle one)
If yes, use professional judgment to evaluate data and qualify results if needed
5. ☒ **Instrument Calibration - Data Package Narrative Review**
Did the laboratory narrative identify compounds that were not within method criteria (%RSD $\leq$ 30; %D $\leq$ 30) in the initial calibration and/or continuing calibration standards? YES NO

Did the laboratory qualify results based on initial or continuing calibration exceedances? YES NO NA
If yes to above, use professional judgment to evaluate data and qualify results if needed
6. ☒ **Internal Standards – Data Package Narrative Review**
(Area Limits = +40% to -40%, RTs within 20 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))
Did the laboratory narrative identify any sample internal standards that were not within criteria?
YES NO (circle one)

Did the laboratory qualify results based on internal standard exceedances? YES NO NA
If yes to above, use professional judgment to evaluate data and qualify results if needed
7. ☒ **Surrogate Recovery**

Were all results within laboratory limits? YES NO (circle one) N/A - no surrogates provided
8. ☒ **Field Duplicates**
Were Field Duplicates submitted/analyzed? YES NO

Were all results were within criteria (Field Dup RPD goal = 50). YES NO NA (circle one)
9. ☒ **Laboratory Control Sample Results** (limits 70-130%)

Were all results within limits? YES NO (circle one) see attached - TO-15 - acetone and ethanol - J-, LCSL
10. ☒ **Raw Data Review and Calculation Checks**
see attached for calculations

11. ☒ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO (circle one)

12. ☒ **Tables Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

70-130

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3 TO-15								
Chlorodifluoromethane	80		-		70-130		-	
Propylene	88		-		70-130		-	
Propane	80		-		70-130		-	
Dichlorodifluoromethane	89		-		70-130		-	
Chloromethane	93		-		70-130		-	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	96		-		70-130		-	
Methanol	80		-		70-130		-	
Vinyl chloride	93		-		70-130		-	
1,3-Butadiene	98		-		70-130		-	
Butane	77		-		70-130		-	
Bromomethane	99		-		70-130		-	
Chloroethane	90		-		70-130		-	
Ethyl Alcohol J-, LCSL	69		-		40-160		-	
Dichlorofluoromethane	81		-		70-130		-	
Vinyl bromide	74		-		70-130		-	
Acrolein	82		-		60-113		-	
Acetone J-, LCSL	69		-		40-160		-	
Acetonitrile NTC - no quals	49	Q	-		70-130		-	
Trichlorofluoromethane	102		-		70-130		-	
iso-Propyl Alcohol	82		-		40-160		-	
Acrylonitrile	88		-		70-130		-	
Pentane	85		-		70-130		-	
Ethyl ether	88		-		70-130		-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

70-130

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3 TO-15								
1,1-Dichloropropene	81	-	-	-	70-130	-	-	-
Benzene	81	-	-	-	70-130	-	-	-
Carbon tetrachloride	82	-	-	-	70-130	-	-	-
Cyclohexane	83	-	-	-	70-130	-	-	-
Tertiary-Amyl Methyl Ether	80	-	-	-	70-130	-	-	-
Dibromomethane	83	-	-	-	70-130	-	-	-
1,2-Dichloropropane	84	-	-	-	70-130	-	-	-
Bromodichloromethane	85	-	-	-	70-130	-	-	-
1,4-Dioxane	89	-	-	-	70-130	-	-	-
Trichloroethene	93	-	-	-	70-130	-	-	-
2,2,4-Trimethylpentane	84	-	-	-	70-130	-	-	-
Methyl Methacrylate NTC - no quals	63	-	-	-	40-160	-	-	-
Heptane	78	-	-	-	70-130	-	-	-
cis-1,3-Dichloropropene	92	-	-	-	70-130	-	-	-
4-Methyl-2-pentanone	78	-	-	-	70-130	-	-	-
trans-1,3-Dichloropropene	77	-	-	-	70-130	-	-	-
1,1,2-Trichloroethane	92	-	-	-	70-130	-	-	-
Toluene	95	-	-	-	70-130	-	-	-
1,3-Dichloropropane	88	-	-	-	70-130	-	-	-
2-Hexanone	82	-	-	-	70-130	-	-	-
Dibromochloromethane	101	-	-	-	70-130	-	-	-
1,2-Dibromoethane	101	-	-	-	70-130	-	-	-
Butyl Acetate	89	-	-	-	70-130	-	-	-

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

70-130

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3 TO-15 SIM								
Propylene	79	-	-	-	70-130	-	25	
Dichlorodifluoromethane	82	-	-	-	70-130	-	25	
Chloromethane	83	-	-	-	70-130	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	86	-	-	-	70-130	-	25	
Vinyl chloride	82	-	-	-	70-130	-	25	
1,3-Butadiene	89	-	-	-	70-130	-	25	
Bromomethane	86	-	-	-	70-130	-	25	
Chloroethane	80	-	-	-	70-130	-	25	
Ethyl Alcohol NTC - no quals	67	-	-	-	40-160	-	25	
Vinyl bromide	70	-	-	-	70-130	-	25	
Acrolein	76	-	-	-	60-113	-	25	
Acetone NTC - no quals	66	-	-	-	40-160	-	25	
Trichlorofluoromethane	78	-	-	-	70-130	-	25	
iso-Propyl Alcohol	80	-	-	-	40-160	-	25	
Acrylonitrile	82	-	-	-	70-130	-	25	
1,1-Dichloroethene	85	-	-	-	70-130	-	25	
tert-Butyl Alcohol†	82	-	-	-	70-130	-	25	
Methylene chloride	99	-	-	-	70-130	-	25	
3-Chloropropene	85	-	-	-	70-130	-	25	
Carbon disulfide	84	-	-	-	70-130	-	25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	95	-	-	-	70-130	-	25	
trans-1,2-Dichloroethene	75	-	-	-	70-130	-	25	
1,1-Dichloroethane	79	-	-	-	70-130	-	25	



Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

70-130

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3 TO-15 SIM								
Methyl tert butyl ether	78		-		70-130	-		25
Vinyl acetate NTC - no quals	69	Q	-		70-130	-		25
2-Butanone	77		-		70-130	-		25
cis-1,2-Dichloroethene	82		-		70-130	-		25
Ethyl Acetate	85		-		70-130	-		25
Chloroform	84		-		70-130	-		25
Tetrahydrofuran	76		-		70-130	-		25
1,2-Dichloroethane	75		-		70-130	-		25
n-Hexane	78		-		70-130	-		25
1,1,1-Trichloroethane	79		-		70-130	-		25
Benzene	74		-		70-130	-		25
Carbon tetrachloride	78		-		70-130	-		25
Cyclohexane	80		-		70-130	-		25
Dibromomethane ¹	75		-		70-130	-		25
1,2-Dichloropropane	78		-		70-130	-		25
Bromodichloromethane	79		-		70-130	-		25
1,4-Dioxane	82		-		70-130	-		25
Trichloroethene	88		-		70-130	-		25
2,2,4-Trimethylpentane	81		-		70-130	-		25
cis-1,3-Dichloropropene	87		-		70-130	-		25
4-Methyl-2-pentanone	74		-		70-130	-		25
trans-1,3-Dichloropropene	73		-		70-130	-		25
1,1,2-Trichloroethane	86		-		70-130	-		25

Initial Calibration Summary

Form 6

Air Volatiles

Client : Wood Env & Infrastructure Solutions **Lab Number** : L2164604
Project Name : FORMER DURASPEC **Project Number** : 3612162326.05
Instrument ID : AIRLAB19 **Ical Ref** : ICAL18472
Calibration dates : 11/16/21 22:28 11/17/21 03:07

Calibration Files

0.2 =r1911383.D 0.5 =r1911384.D 1.0 =r1911385.D 5.0 =r1911386.D 10 =r1911387.D 20 =r1911388.D
 50 =r1911389.D 100 =r1911390.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.758	0.754	0.762	0.726	0.716	0.697	0.657	0.604	0.7093	7.80
38)	Ethyl Acetate	0.191	0.206	0.230	0.211	0.192	0.188	0.187	0.186	0.1990	7.82
39) C	chloroform	0.960	0.983	0.955	0.879	0.851	0.804	0.721	0.639	0.8490	14.43
40)	Tetrahydrofuran	0.831	0.816	0.851	0.802	0.787	0.746	0.702	0.686	0.7777	7.76
41)	2,2-dichloropropane	0.914	0.895	0.902	0.822	0.815	0.783	0.703	0.610	0.8055	13.17
42) C	1,2-dichloroethane	0.718	0.733	0.719	0.665	0.641	0.617	0.573	0.545	0.6513	10.78
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.532	0.492	0.491	0.473	0.481	0.489	0.456	0.407	0.4778	7.50
45)	diisopropyl ether	0.228	0.229	0.233	0.218	0.218	0.214	0.202	0.186	0.2159	7.27
46)	tert-butyl ethyl ether	0.869	0.866	0.893	0.838	0.834	0.824	0.794	0.753	0.8340	5.38
47) s	1,2-dichloroethane-D4	0.323	0.313	0.313	0.320	0.317	0.323	0.321	0.317	0.3184	1.31
48) C	1,1,1-trichloroethane	0.402	0.374	0.373	0.357	0.352	0.351	0.331	0.303	0.3552	8.36
49)	1,1-dichloropropene	0.382	0.362	0.359	0.347	0.344	0.343	0.323	0.299	0.3450	7.31
50) C	benzene	1.028	0.863	0.807	0.746	0.726	0.718	0.674	0.625	0.7733	16.36
51)	thiophene	0.473	0.454	0.441	0.417	0.411	0.413	0.388	0.357	0.4192	8.82
52) C	carbon tetrachloride	0.371	0.339	0.340	0.321	0.324	0.323	0.299	0.258	0.3219	10.23
53)	cyclohexane	0.549	0.506	0.503	0.488	0.494	0.503	0.490	0.441	0.4966	5.96
54)	tert-amyl methyl ether	0.766	0.722	0.747	0.733	0.732	0.710	0.663	0.636	0.7137	6.10
55)	dibromomethane	0.219	0.208	0.214	0.202	0.199	0.193	0.179	0.168	0.1977	8.74
56) C	1,2-dichloropropane	0.308	0.291	0.299	0.276	0.275	0.271	0.257	0.250	0.2782	7.24
57)	bromodichloromethane	0.471	0.448	0.471	0.442	0.437	0.426	0.394	0.368	0.4322	8.31
58) C	1,4-dioxane	0.165	0.166	0.166	0.169	0.167	0.168	0.156	0.146	0.1629	4.77
59) C	trichloroethene	0.260	0.262	0.256	0.245	0.242	0.234	0.216	0.198	0.2391	9.45
60) C	2,2,4-trimethylpentane	1.728	1.664	1.629	1.475	1.448	1.445	1.378	1.257	1.5030	10.53
61)	methyl methacrylate		0.438	0.445	0.475	0.472	0.449	0.430	0.425	0.4477	4.38
62)	heptane	0.666	0.635	0.624	0.585	0.578	0.569	0.543	0.517	0.5896	8.34
63) C	cis-1,3-dichloropropene	0.387	0.383	0.391	0.391	0.393	0.385	0.363	0.351	0.3805	4.04
64) C	4-methyl-2-pentanone		0.680	0.683	0.688	0.712	0.688	0.651	0.625	0.6752	4.21
65)	trans-1,3-dichloropropene	0.340	0.331	0.362	0.382	0.385	0.379	0.357	0.347	0.3603	5.66
66) C	1,1,2-trichloroethane	0.262	0.239	0.251	0.251	0.244	0.239	0.223	0.215	0.2405	6.46
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	4.774	4.183	4.088	3.562	3.379	3.224	3.022	2.865	3.6370	✓ 18.04 ✓
69) s	toluene-D8	3.884	3.977	4.074	3.938	3.790	3.807	3.761	3.846	3.8847	2.74
70)	2-methylthiophene	2.667	2.732	2.753	2.503	2.384	2.341	2.199	2.138	2.4649	9.65
71)	1,3-dichloropropane	1.993	1.915	1.952	1.855	1.764	1.715	1.618	1.540	1.7942	9.07
72)	2-hexanone	2.845	2.778	2.914	2.777	2.775	2.762	2.649	2.525	2.7532	4.32



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\11\1116T_I\
 Data File : r1911385.D
 Acq On : 16 Nov 2021 11:48 PM
 Operator : AIRLAB19:TS
 Sample : ITO15-LLSTD1.0
 Misc : WG1573031
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 18 09:59:18 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\11\1116T_I\TFS19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 17 08:23:20 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\11\1116T_I\r1911387.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.033	49	364289	10.000	ppbV	0.00
Standard Area = 365406			Recovery =		99.69%	
43) 1,4-difluorobenzene	11.287	114	839805	10.000	ppbV	0.00
Standard Area = 800680			Recovery =		104.89%	
67) chlorobenzene-D5	16.033	54	181927	10.000	ppbV	0.00
Standard Area = 189721			Recovery =		95.89%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.908	65	262699	9.874	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.74%	
69) toluene-D8	14.075	98	741258	10.751	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		107.51%	
90) bromofluorobenzene	17.392	95	481529	10.387	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.87%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.508	51	28236	1.042	ppbV	99
3) propylene	3.532	41	17479M6	0.988	ppbV	
4) propane	3.556	29	22945	1.051	ppbV	99
5) dichlorodifluoromethane	3.610	85	35504	1.058	ppbV	97
6) chloromethane	3.778	50	14005	0.963	ppbV	99
7) Freon-114	3.892	85	36573	1.044	ppbV	98
8) methanol	4.000	31	45680	5.682	ppbV #	61
9) vinyl chloride	4.012	62	18522	1.035	ppbV	99
10) 1,3-butadiene	4.168	54	14808	1.011	ppbV	99
11) butane	4.228	43	33230	1.081	ppbV	100
12) acetaldehyde	3.910	29	52801	4.820	ppbV	98
13) bromomethane	4.456	94	12569	1.033	ppbV	97
14) chloroethane	4.660	64	10149	1.010	ppbV	98
15) ethanol	4.834	31	100668	6.718	ppbV	100
16) dichlorofluoromethane	4.792	67	33471	1.018	ppbV	100
17) vinyl bromide	5.070	106	14336	0.990	ppbV	96
18) acrolein	5.223	56	6529	0.928	ppbV	95
19) acetone	5.380	43	159627	5.507	ppbV	100
20) acetonitrile	5.077	41	21628M6	1.161	ppbV	
21) trichlorofluoromethane	5.577	101	28606	1.052	ppbV	100
22) isopropyl alcohol	5.713	45	90974	2.805	ppbV	100
23) acrylonitrile	5.957	53	13320M6	1.182	ppbV	
24) pentane	6.020	43	38445	1.018	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\11\1116T_I\
 Data File : r1911385.D
 Acq On : 16 Nov 2021 11:48 PM
 Operator : AIRLAB19:TS
 Sample : ITO15-LLSTD1.0
 Misc : WG1573031
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 18 09:59:18 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\11\1116T_I\TFS19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 17 08:23:20 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\11\1116T_I\r1911387.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.192	91	74363	1.210	ppbV	97
70) 2-methylthiophene	14.267	97	50089	1.155	ppbV	100
71) 1,3-dichloropropane	14.225	76	35510	1.106	ppbV	99
72) 2-hexanone	14.517	43	53015	1.050	ppbV	98
73) 3-methylthiophene	14.475	97	50645	1.144	ppbV	100
74) dibromochloromethane	14.675	129	28846	1.102	ppbV	98
75) 1,2-dibromoethane	14.933	107	29673	1.055	ppbV	98
76) butyl acetate	15.217	73	10022	1.043	ppbV	99
77) octane	15.308	85	28992	1.124	ppbV	99
78) tetrachloroethene	15.417	166	23324	1.144	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.067	131	20344	1.076	ppbV	98
80) chlorobenzene	16.075	112	51536	1.086	ppbV	99
81) ethylbenzene	16.433	91	85877	1.077	ppbV	98
82) 2-ethylthiophene	16.467	97	59305	1.117	ppbV	98
83) m+p-xylene	16.592	91	142701	2.197	ppbV	98
84) bromoform	16.650	173	22415	1.071	ppbV	99
85) styrene	16.908	104	54624	1.076	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.000	83	51419	1.134	ppbV	100
87) o-xylene	17.000	91	71731	1.141	ppbV	100
88) 1,2,3-trichloropropane	17.117	75	41915	1.114	ppbV	99
89) nonane	17.208	43	70334	1.129	ppbV	100
91) isopropylbenzene	17.500	105	95548	1.165	ppbV	98
92) bromobenzene	17.575	77	53865	1.101	ppbV	97
93) 2-chlorotoluene	17.892	126	22898	1.086	ppbV	98
94) n-propylbenzene	17.925	120	28361	1.073	ppbV	96
95) 4-chlorotoluene	17.950	126	21801	1.077	ppbV	94
96) 4-ethyl toluene	18.042	105	102391	1.102	ppbV	100
97) 1,3,5-trimethylbenzene	18.108	105	86361	0.977	ppbV	100
98) tert-butylbenzene	18.433	119	87864	1.131	ppbV	100
99) 1,2,4-trimethylbenzene	18.433	105	84665	1.145	ppbV	99
100) decane	18.517	57	78668	1.095	ppbV	100
101) Benzyl Chloride	18.550	91	57590	0.941	ppbV	98
102) 1,3-dichlorobenzene	18.558	146	41409	1.116	ppbV	97
103) 1,4-dichlorobenzene	18.608	146	40181	1.091	ppbV	98
104) sec-butylbenzene	18.650	105	121999	1.163	ppbV	98
105) 1,2,3-trimethylbenzene	18.767	105	88557	1.141	ppbV	100
106) p-isopropyltoluene	18.767	119	105468	1.157	ppbV	98
107) 1,2-dichlorobenzene	18.875	146	37739	1.072	ppbV	98
108) n-butylbenzene	19.092	91	87869	1.042	ppbV	96
109) indan	18.925	117	91927	1.105	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\12\1209T\
 Data File : r1911865.D
 Acq On : 9 Dec 2021 10:00 PM
 Operator : AIRLAB19:RY
 Sample : L2164604-02,3,250,250
 Misc : WG1581371,ICAL18472
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 10 11:45:22 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\12\1209T\TFS19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 18 10:11:32 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\12\1209T\r1911856.D
 Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.04	49	389786	10.000	ppbV	0.00
Standard Area = 426336			Recovery =		91.43%	
43) 1,4-difluorobenzene	11.29	114	860346	10.000	ppbV	0.00
Standard Area = 924169			Recovery =		93.09%	
67) chlorobenzene-D5	16.03	54	174184	10.000	ppbV	0.00
Standard Area = 189202			Recovery =		92.06%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.61	85	14926	0.428	ppbV	100
6) chloromethane	3.78	50	7519	0.512	ppbV	98
7) Freon-114	3.90		0	N.D.		
10) 1,3-butadiene	4.17		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	4.85	31	169486	10.448	ppbV	99
17) vinyl bromide	0.00		0	N.D.		
19) acetone	5.40	43	66365M6	2.148	ppbV	
21) trichlorofluoromethane	5.58	101	5787	0.209	ppbV	99
22) isopropyl alcohol	5.74	45	21594	0.614	ppbV	99
27) tertiary butyl alcohol	6.46		0	N.D.		
28) methylene chloride	6.51	49	2607	0.129	ppbV	95
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	6.80		0	N.D.		
31) Freon 113	6.85	101	2048	0.074	ppbV	94
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	7.97		0	N.D.		
36) 2-butanone	8.38	43	6688	0.137	ppbV #	96
38) Ethyl Acetate	9.18		0	N.D.		
39) chloroform	9.20		0	N.D.		
40) Tetrahydrofuran	9.67	42	5033	0.166	ppbV	90
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	9.13	57	4988	0.121	ppbV #	57
50) benzene	10.84	78	12271	0.184	ppbV	99
53) cyclohexane	11.15	56	6375	0.149	ppbV	95
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\12\1209T\
 Data File : r1911865.D
 Acq On : 9 Dec 2021 10:00 PM
 Operator : AIRLAB19:RY
 Sample : L2164604-02,3,250,250
 Misc : WG1581371,ICAL18472
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 10 11:45:22 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\12\1209T\TFS19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 18 10:11:32 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\12\1209T\r1911856.D
 Sub List : TO15-NY-7-SIM - .

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58)	1,4-dioxane	0.00		0	N.D.		
60)	2,2,4-trimethylpentane	12.12	57	12617	0.098	ppbV	98
62)	heptane	12.44	43	3997	0.079	ppbV	97
63)	cis-1,3-dichloropropene	0.00		0	N.D.		
64)	4-methyl-2-pentanone	13.14		0	N.D.		
65)	trans-1,3-dichloropropene	0.00		0	N.D.		
66)	1,1,2-trichloroethane	0.00		0	N.D.		
68)	toluene	14.19	91	32059	0.506	ppbV ✓	100
72)	2-hexanone	0.00		0	N.D.	d	
74)	dibromochloromethane	0.00		0	N.D.		
75)	1,2-dibromoethane	0.00		0	N.D.		
80)	chlorobenzene	0.00		0	N.D.		
81)	ethylbenzene	16.43	91	6019	0.079	ppbV	99
83)	m+p-xylene	16.58	91	17868	0.292	ppbV	98
84)	bromoform	0.00		0	N.D.		
85)	styrene	16.92		0	N.D.		
86)	1,1,2,2-tetrachloroethane	0.00		0	N.D.		
87)	o-xylene	17.00	91	8278	0.138	ppbV	99
96)	4-ethyl toluene	18.04		0	N.D.		
97)	1,3,5-trimethylbenzene	18.11		0	N.D.		
99)	1,2,4-trimethylbenzene	18.43	105	6993	0.103	ppbV #	54
101)	Benzyl Chloride	0.00		0	N.D.	d	
102)	1,3-dichlorobenzene	18.61		0	N.D.		
103)	1,4-dichlorobenzene	18.61		0	N.D.		
107)	1,2-dichlorobenzene	0.00		0	N.D.		
115)	1,2,4-trichlorobenzene	0.00		0	N.D.		
119)	hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

DUSR Calculations Sheet

Sample ID: IAQ-FIRST-112021

TC:Toluene

ICAL Level:STD1.0

Val File Result for TC:1.91

Ical Calc

Area TC	74363	1	4.774
Area IS	181927	2	4.183
		3	4.088
Conc TC	1.21	4	3.562
Conc IS	10	5	3.379
		6	3.224
RRF =	3.378115	7	3.022
		8	2.865
		9	
		10	
		Avg RRF =	3.637125
		Std Dev =	0.65588
		%RSD =	18.03293

Sample Calc

Area TC	32059	Pi	
Area IS	174184	Pf	
		Canister DF	1
Conc IS	10	Total DF	
Avg RRF	3.637125		

Conc TC (ng/L) = 0.506038 Conc (ug/m3) = 0.506038
 Final Conc (ug/m3) = 1.905451

Notes:

Green = matched reported value

Red = did not match reported value

Response Factor Report

Method Path : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\
Method File : TSIM19_211116.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Nov 18 08:47:34 2021
Response Via : Initial Calibration

Calibration Files

0.02=r1911380_Ev2.D 0.05=r1911381_Ev2.D 0.1 =r1911382_Ev2.D 0.2 =r1911383_Ev2.D 0.5 =r1911384_Ev2.D
1.0 =r1911385_Ev2.D 5.0 =r1911386_Ev2.D 10.0=r1911387_Ev2.D 20.0=r1911388_Ev2.D 50.0=r1911389_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C 1,2-dichloroethane	0.656	0.760	0.691	0.743	0.737	0.718	0.665	0.649	0.615	0.574	0.6807	8.80
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.534	0.491	0.482	0.465	0.475	0.479	0.449	0.4821	5.47
35) s 1,2-dichloroethane-D4	0.307	0.314	0.316	0.323	0.315	0.309	0.317	0.313	0.318	0.316	0.3148	1.45
36) C 1,1,1-trichloroethane	0.378	0.376	0.383	0.410	0.375	0.372	0.353	0.349	0.349	0.331	0.3676	6.10
37) C benzene			1.197	1.035	0.860	0.811	0.740	0.724	0.712	0.671	0.8439	21.73
38) C carbon tetrachloride	0.360	0.346	0.361	0.389	0.342	0.342	0.326	0.327	0.323	0.303	0.3419	7.07
39) cyclohexane				0.544	0.503	0.498	0.479	0.487	0.494	0.484	0.4983	4.33
40) Dibromomethane		0.282	0.256	0.235	0.219	0.215	0.201	0.201	0.195	0.180	0.2206	14.60
41) C 1,2-dichloropropane	0.351	0.336	0.286	0.321	0.301	0.299	0.279	0.275	0.268	0.254	0.2970	10.40
42) bromodichloromethane	0.502	0.436	0.437	0.473	0.471	0.470	0.439	0.440	0.426	0.396	0.4489	6.71
43) C 1,4-dioxane			0.181	0.179	0.169	0.165	0.166	0.165	0.165	0.156	0.1683	4.70
44) C trichloroethene	0.286	0.278	0.271	0.280	0.266	0.257	0.244	0.241	0.234	0.217	0.2576	8.84
45) C 2,2,4-trimethylpen...				1.719	1.658	1.602	1.443	1.416	1.424	1.356	1.5168	9.26
46) heptane				0.649	0.623	0.604	0.571	0.561	0.555	0.531	0.5849	7.16
47) C cis-1,3-dichloropr...	0.337	0.351	0.387	0.404	0.374	0.387	0.389	0.389	0.379	0.358	0.3756	5.50
48) C 4-methyl-2-pentanone					0.670	0.656	0.669	0.691	0.663	0.632	0.6634	2.88
49) trans-1,3-dichloro...	0.334	0.300	0.332	0.362	0.344	0.355	0.381	0.378	0.373	0.355	0.3514	7.04
50) C 1,1,2-trichloroethane	0.265	0.235	0.252	0.274	0.244	0.250	0.252	0.246	0.238	0.223	0.2479	5.90

51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene			5.609	4.861	4.266	4.139	3.638	3.450	3.304	3.082	4.0435	21.24
53) s toluene-D8	4.109	3.979	3.921	3.935	4.055	4.183	4.050	3.881	3.848	3.818	3.9780	2.99
54) 2-hexanone				2.725	2.711	2.860	2.766	2.756	2.744	2.633	2.7420	2.48
55) dibromochloromethane	1.479	1.457	1.487	1.598	1.572	1.600	1.520	1.458	1.402	1.293	1.4867	6.35
56) C 1,2-dibromoethane	1.585	1.573	1.592	1.740	1.699	1.717	1.642	1.592	1.500	1.392	1.6033	6.55
57) C tetrachloroethene	1.319	1.222	1.250	1.320	1.267	1.399	1.191	1.107	1.052	1.012	1.2140	10.25
58) 1,1,1,2-tetrachlor...	1.192	1.136	1.175	1.244	1.151	1.141	1.071	1.054	1.015	0.910	1.1089	8.81
59) C chlorobenzene	2.642	2.844	2.896	3.065	2.983	2.945	2.759	2.690	2.524	2.219	2.7567	9.13
60) C ethylbenzene	4.675	4.851	4.700	5.043	4.851	4.865	4.509	4.438	4.280	3.904	4.6117	7.33
61) C m+p-xylene	3.768	3.814	3.768	4.073	3.969	3.981	3.639	3.557	3.414	3.096	3.7078	7.95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\
 Data File : r1911385_Ev2.D
 Acq On : 16 Nov 2021 11:48 PM
 Operator : AIRLAB19:TS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1573032
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 18 08:42:47 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\TSIM19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 17 09:26:44 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\r1911386_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) bromochloromethane	9.025	49	241015	10.000	ppbV	0.00
Standard Area = 238682			Recovery =	100.98%		
33) 1,4-difluorobenzene	11.280	114	568422	10.000	ppbV	0.00
Standard Area = 541050			Recovery =	105.06%		
51) chlorobenzene-D5	16.033	54	119925	10.000	ppbV	0.00
Standard Area = 121339			Recovery =	98.83%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.908	65	175476	9.743	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.43%		
53) toluene-D8	14.075	98	501689	10.329	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.29%		
67) bromofluorobenzene	17.383	95	329179	9.988	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.88%		
Target Compounds						
					Qvalue	
2) propylene	3.526	41	11376M6	1.006	ppbV	
3) dichlorodifluoromethane	3.604	85	23624	1.002	ppbV	99
4) chloromethane	3.772	50	9599	1.004	ppbV	98
5) Freon-114	3.892	85	24500	0.996	ppbV	98
6) vinyl chloride	4.012	62	12369	1.002	ppbV	99
7) 1,3-butadiene	4.162	54	9942	0.960	ppbV	92
8) bromomethane	4.456	94	8551	1.033	ppbV	97
9) chloroethane	4.660	64	6825	1.006	ppbV	93
10) ethanol	4.828	31	68931	6.555	ppbV	95
11) vinyl bromide	5.070	106	9859	0.997	ppbV	100
12) acrolein	5.227	56	5105M6	1.068	ppbV	
13) acetone	5.377	43	105043	5.303	ppbV	94
14) trichlorofluoromethane	5.573	101	20027	1.045	ppbV	100
15) isopropyl alcohol	5.710	45	60239	2.642	ppbV #	98
16) acrylonitrile	5.953	53	6530	0.872	ppbV	100
17) 1,1-dichloroethene	6.334	61	18972	1.042	ppbV	97
18) tertiary butyl alcohol	6.430	59	27088	1.055	ppbV	96
19) methylene chloride	6.502	49	13542	1.079	ppbV	95
20) 3-chloropropene	6.640	41	19464	1.022	ppbV	99
21) carbon disulfide	6.784	76	29624M6	0.998	ppbV	
22) Freon 113	6.826	101	18967	1.046	ppbV	98
23) trans-1,2-dichloroethene	7.625	61	19571M6	1.141	ppbV	
24) 1,1-dichloroethane	7.850	63	25390	1.074	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\
 Data File : r1911385_Ev2.D
 Acq On : 16 Nov 2021 11:48 PM
 Operator : AIRLAB19:TS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1573032
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 18 08:42:47 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\TSIM19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 17 09:26:44 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\11\1116SIM_I\r1911386_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
25) MTBE	7.942	73	40012	1.103	ppbV	98
26) vinyl acetate	8.083	43	31980	1.077	ppbV	97
27) 2-butanone	8.342	43	33329	1.089	ppbV	96
28) cis-1,2-dichloroethene	8.842	61	18527	1.068	ppbV	94
29) Ethyl Acetate	9.158	61	5274	1.077	ppbV	69
30) chloroform	9.192	83	23472	1.096	ppbV	98
31) Tetrahydrofuran	9.642	42	19878	1.043	ppbV #	88
32) 1,2-dichloroethane	10.025	62	17293	1.078	ppbV	98
34) hexane	9.108	57	27404	1.037	ppbV #	75
36) 1,1,1-trichloroethane	10.308	97	21169	1.054	ppbV	95
37) benzene	10.833	78	46127	1.096	ppbV	99
38) carbon tetrachloride	11.007	117	19425	1.047	ppbV	100
39) cyclohexane	11.147	56	28279	1.038	ppbV	97
40) Dibromomethane	11.747	93	12198	1.068	ppbV #	96
41) 1,2-dichloropropane	11.780	63	16985	1.071	ppbV	99
42) bromodichloromethane	12.007	83	26727	1.070	ppbV	100
43) 1,4-dioxane	12.067	88	9396	0.995	ppbV	99
44) trichloroethene	12.060	130	14633	1.054	ppbV	97
45) 2,2,4-trimethylpentane	12.113	57	91046	1.110	ppbV	96
46) heptane	12.433	43	34314	1.057	ppbV	96
47) cis-1,3-dichloropropene	13.058	75	21979	0.993	ppbV	98
48) 4-methyl-2-pentanone	13.108	43	37281	0.981	ppbV	97
49) trans-1,3-dichloropropene	13.675	75	20178	0.932	ppbV	98
50) 1,1,2-trichloroethane	13.867	97	14213	0.991	ppbV	96
52) toluene	14.192	91	49634	1.138	ppbV	99
54) 2-hexanone	14.508	43	34295	1.034	ppbV	96
55) dibromochloromethane	14.667	129	19187	1.053	ppbV	99
56) 1,2-dibromoethane	14.933	107	20594	1.046	ppbV	99
57) tetrachloroethene	15.417	166	16781	1.175	ppbV	94
58) 1,1,1,2-tetrachloroethane	16.058	131	13678	1.065	ppbV	98
59) chlorobenzene	16.075	112	35323	1.067	ppbV	96
60) ethylbenzene	16.425	91	58344	1.079	ppbV	96
61) m+p-xylene	16.592	91	95476	2.188	ppbV	95
62) bromoform	16.650	173	14254	1.037	ppbV	97
63) styrene	16.908	104	37780	1.056	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.000	83	34184	1.067	ppbV	99
65) o-xylene	17.000	91	48061	1.091	ppbV	95
66) 1,2,3-Trichloropropane	17.108	75	28229	1.064	ppbV	98
68) isopropylbenzene	17.500	105	64326	1.095	ppbV	98
69) Bromobenzene	17.567	77	36531	1.064	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2021\12\1209SIM\
 Data File : r1911864_Ev2.D
 Acq On : 9 Dec 2021 9:19 PM
 Operator : AIRLAB19:RY
 Sample : L2164604-01,3,250,250
 Misc : WG1581374,ICAL18473
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 10 06:26:40 2021
 Quant Method : O:\Forensics\Data\Airlab19\2021\12\1209SIM\TSIM19_211116.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 18 08:47:34 2021
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2021\12\1209SIM\r1911858_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.03	49	255603	10.000	ppbV	0.00
Standard Area = 278658			Recovery =		91.73%	
33) 1,4-difluorobenzene	11.28	114	582366	10.000	ppbV	0.00
Standard Area = 649423			Recovery =		89.67%	
51) chlorobenzene-D5	16.03	54	111322	10.000	ppbV	# 0.00
Standard Area = 125976			Recovery =		88.37%	

System Monitoring Compounds

Target Compounds					Qvalue
6) vinyl chloride	0.00		0	N.D.	
17) 1,1-dichloroethene	0.00		0	N.D.	
28) cis-1,2-dichloroethene	0.00		0	N.D.	
36) 1,1,1-trichloroethane	0.00		0	N.D.	
38) carbon tetrachloride	11.01	117	1303	0.065 ppbV	95 ✓
44) trichloroethene	0.00		0	N.D.	
57) tetrachloroethene	15.42	166	502	0.037 ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample ID: IAQ-FIRST-112021

TC: Carbon tetrachloride

ICAL Level: STD1.0

Val File Result for TC: 0.409

Ical Calc

Area TC	19425	1	0.36
Area IS	568422	2	0.346
		3	0.361
Conc TC	1.047	4	0.389
Conc IS	10	5	0.342
		6	0.342
RRF =	0.326395	7	0.326
		8	0.327
		9	0.323
		10	0.303
		Avg RRF =	0.3419
		Std Dev =	0.024205
		%RSD =	7.07953

Sample Calc

Area TC	1303	Pi	
Area IS	582366	Pf	
		Canister DF	1
Conc IS	10	Total DF	
Avg RRF	0.3419		

Conc TC (ng/L) = 0.065441 Conc (ug/m3) = 0.065441
Final Conc (ug/m3) = 0.411366

Notes:

Green = matched reported value

Red = did not match reported value

APPENDIX E – LABORATORY REPORT



ANALYTICAL REPORT

Lab Number:	L2164604
Client:	Wood Env & Infrastructure Solutions, Inc 209-35 Northern Blvd Suite 203 Bayside, NY 11361
ATTN:	Eric Weinstock
Phone:	(347) 836-4445
Project Name:	FORMER DURASPEC
Project Number:	3612162326.05
Report Date:	12/10/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2164604-01	IAQ-BASEMENT-112021	AIR	JAMAICA, NY	11/19/21 17:03	11/22/21
L2164604-02	IAQ-FIRST-112021	AIR	JAMAICA, NY	11/19/21 17:06	11/22/21

Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

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: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on November 11, 2021. The canister certification results are provided as an addendum.

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: 12/10/21

AIR

Project Name: FORMER DURASPEC**Project Number:** 3612162326.05**Lab Number:** L2164604**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-01
 Client ID: IAQ-BASEMENT-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:03
 Date Received: 11/22/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/09/21 21:19
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.451	0.200	--	2.23	0.989	--		1
Chloromethane	0.525	0.200	--	1.08	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	11.8	5.00	--	22.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.49	1.00	--	8.29	2.38	--		1
Trichlorofluoromethane	0.212	0.200	--	1.19	1.12	--		1
iso-Propyl Alcohol	0.936	0.500	--	2.30	1.23	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-01
 Client ID: IAQ-BASEMENT-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:03
 Date Received: 11/22/21
 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	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		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	0.477	0.200	--	1.80	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
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-01
 Client ID: IAQ-BASEMENT-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:03
 Date Received: 11/22/21
 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
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	92		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140



Project Name: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-01
 Client ID: IAQ-BASEMENT-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:03
 Date Received: 11/22/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/09/21 21:19
 Analyst: RY

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	0.065	0.020	--	0.409	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.037	0.020	--	0.251	0.136	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140



Project Name: FORMER DURASPEC**Project Number:** 3612162326.05**Lab Number:** L2164604**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-02
 Client ID: IAQ-FIRST-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:06
 Date Received: 11/22/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 12/09/21 22:00
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.428	0.200	--	2.12	0.989	--		1
Chloromethane	0.512	0.200	--	1.06	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	10.4	5.00	--	19.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.15	1.00	--	5.11	2.38	--		1
Trichlorofluoromethane	0.209	0.200	--	1.17	1.12	--		1
iso-Propyl Alcohol	0.614	0.500	--	1.51	1.23	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-02
 Client ID: IAQ-FIRST-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:06
 Date Received: 11/22/21
 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	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	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
Xylene (Total)	ND	0.200	--	ND	0.869	--		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	0.506	0.200	--	1.91	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	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-02
 Client ID: IAQ-FIRST-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:06
 Date Received: 11/22/21
 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
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	93		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140



Project Name: FORMER DURASPEC**Project Number:** 3612162326.05**Lab Number:** L2164604**Report Date:** 12/10/21**SAMPLE RESULTS**

Lab ID: L2164604-02
 Client ID: IAQ-FIRST-112021
 Sample Location: JAMAICA, NY

Date Collected: 11/19/21 17:06
 Date Received: 11/22/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/09/21 22:00
 Analyst: RY

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	0.066	0.020	--	0.415	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.034	0.020	--	0.231	0.136	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/09/21 16:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1581371-4								
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
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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
iso-Propyl Alcohol	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
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/09/21 16:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1581371-4								
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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
Xylene (Total)	ND	0.200	--	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
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,3-Dichloropropene, Total	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/09/21 16:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1581371-4								
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
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



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/09/21 16:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1581371-4								
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
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-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 (C10)	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



Project Name: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/09/21 16:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1581371-4								
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	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: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/09/21 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1581374-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		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
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/09/21 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1581374-4								
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
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		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
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	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



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/09/21 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1581374-4								
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Xylene (Total)	ND	0.020	--	ND	0.087	--		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
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
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



Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/09/21 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1581374-4								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.020	--	ND	0.193	--		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

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3								
Chlorodifluoromethane	80		-		70-130	-		
Propylene	88		-		70-130	-		
Propane	80		-		70-130	-		
Dichlorodifluoromethane	89		-		70-130	-		
Chloromethane	93		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	96		-		70-130	-		
Methanol	80		-		70-130	-		
Vinyl chloride	93		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Butane	77		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	90		-		70-130	-		
Ethyl Alcohol	69		-		40-160	-		
Dichlorofluoromethane	81		-		70-130	-		
Vinyl bromide	74		-		70-130	-		
Acrolein	82		-		60-113	-		
Acetone	69		-		40-160	-		
Acetonitrile	49	Q	-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
iso-Propyl Alcohol	82		-		40-160	-		
Acrylonitrile	88		-		70-130	-		
Pentane	85		-		70-130	-		
Ethyl ether	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3								
1,1-Dichloroethene	96		-		70-130	-		
tert-Butyl Alcohol	90		-		70-130	-		
Methylene chloride	108		-		70-130	-		
3-Chloropropene	90		-		70-130	-		
Carbon disulfide	85		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	80		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
Methyl tert butyl ether	80		-		70-130	-		
Vinyl acetate	73		-		70-130	-		
2-Butanone	79		-		70-130	-		
cis-1,2-Dichloroethene	85		-		70-130	-		
Ethyl Acetate	86		-		70-130	-		
Chloroform	88		-		70-130	-		
Tetrahydrofuran	79		-		70-130	-		
2,2-Dichloropropane	75		-		70-130	-		
1,2-Dichloroethane	78		-		70-130	-		
n-Hexane	82		-		70-130	-		
Isopropyl Ether	84		-		70-130	-		
Ethyl-Tert-Butyl-Ether	76		-		70-130	-		
1,2-Dichloroethene (total)	82		-			-		
1,2-Dichloroethene (total)	82		-			-		
1,1,1-Trichloroethane	82		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3								
1,1-Dichloropropene	81		-		70-130	-		
Benzene	81		-		70-130	-		
Carbon tetrachloride	82		-		70-130	-		
Cyclohexane	83		-		70-130	-		
Tertiary-Amyl Methyl Ether	80		-		70-130	-		
Dibromomethane	83		-		70-130	-		
1,2-Dichloropropane	84		-		70-130	-		
Bromodichloromethane	85		-		70-130	-		
1,4-Dioxane	89		-		70-130	-		
Trichloroethene	93		-		70-130	-		
2,2,4-Trimethylpentane	84		-		70-130	-		
Methyl Methacrylate	63		-		40-160	-		
Heptane	78		-		70-130	-		
cis-1,3-Dichloropropene	92		-		70-130	-		
4-Methyl-2-pentanone	78		-		70-130	-		
trans-1,3-Dichloropropene	77		-		70-130	-		
1,1,2-Trichloroethane	92		-		70-130	-		
Toluene	95		-		70-130	-		
1,3-Dichloropropane	88		-		70-130	-		
2-Hexanone	82		-		70-130	-		
Dibromochloromethane	101		-		70-130	-		
1,2-Dibromoethane	101		-		70-130	-		
Butyl Acetate	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3								
Octane	95		-		70-130	-		
Tetrachloroethene	101		-		70-130	-		
1,1,1,2-Tetrachloroethane	94		-		70-130	-		
Chlorobenzene	101		-		70-130	-		
Ethylbenzene	98		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	97		-		70-130	-		
Styrene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	106		-		70-130	-		
o-Xylene	101		-		70-130	-		
1,2,3-Trichloropropane	91		-		70-130	-		
Nonane (C9)	82		-		70-130	-		
Isopropylbenzene	96		-		70-130	-		
Bromobenzene	91		-		70-130	-		
o-Chlorotoluene	99		-		70-130	-		
n-Propylbenzene	99		-		70-130	-		
p-Chlorotoluene	101		-		70-130	-		
4-Ethyltoluene	94		-		70-130	-		
1,3,5-Trimethylbenzene	101		-		70-130	-		
tert-Butylbenzene	87		-		70-130	-		
1,2,4-Trimethylbenzene	93		-		70-130	-		
Decane (C10)	94		-		70-130	-		
Benzyl chloride	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581371-3								
1,3-Dichlorobenzene	107		-		70-130	-		
1,4-Dichlorobenzene	106		-		70-130	-		
sec-Butylbenzene	96		-		70-130	-		
p-Isopropyltoluene	92		-		70-130	-		
1,2-Dichlorobenzene	108		-		70-130	-		
n-Butylbenzene	103		-		70-130	-		
1,2-Dibromo-3-chloropropane	89		-		70-130	-		
Undecane	102		-		70-130	-		
Dodecane (C12)	105		-		70-130	-		
1,2,4-Trichlorobenzene	98		-		70-130	-		
Naphthalene	91		-		70-130	-		
1,2,3-Trichlorobenzene	88		-		70-130	-		
Hexachlorobutadiene	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3								
Propylene	79		-		70-130	-		25
Dichlorodifluoromethane	82		-		70-130	-		25
Chloromethane	83		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	86		-		70-130	-		25
Vinyl chloride	82		-		70-130	-		25
1,3-Butadiene	89		-		70-130	-		25
Bromomethane	86		-		70-130	-		25
Chloroethane	80		-		70-130	-		25
Ethyl Alcohol	67		-		40-160	-		25
Vinyl bromide	70		-		70-130	-		25
Acrolein	76		-		60-113	-		25
Acetone	66		-		40-160	-		25
Trichlorofluoromethane	78		-		70-130	-		25
iso-Propyl Alcohol	80		-		40-160	-		25
Acrylonitrile	82		-		70-130	-		25
1,1-Dichloroethene	85		-		70-130	-		25
tert-Butyl Alcohol ¹	82		-		70-130	-		25
Methylene chloride	99		-		70-130	-		25
3-Chloropropene	85		-		70-130	-		25
Carbon disulfide	84		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		-		70-130	-		25
trans-1,2-Dichloroethene	75		-		70-130	-		25
1,1-Dichloroethane	79		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3								
Methyl tert butyl ether	78		-		70-130	-		25
Vinyl acetate	69	Q	-		70-130	-		25
2-Butanone	77		-		70-130	-		25
cis-1,2-Dichloroethene	82		-		70-130	-		25
Ethyl Acetate	85		-		70-130	-		25
Chloroform	84		-		70-130	-		25
Tetrahydrofuran	76		-		70-130	-		25
1,2-Dichloroethane	75		-		70-130	-		25
n-Hexane	78		-		70-130	-		25
1,1,1-Trichloroethane	79		-		70-130	-		25
Benzene	74		-		70-130	-		25
Carbon tetrachloride	78		-		70-130	-		25
Cyclohexane	80		-		70-130	-		25
Dibromomethane ¹	75		-		70-130	-		25
1,2-Dichloropropane	78		-		70-130	-		25
Bromodichloromethane	79		-		70-130	-		25
1,4-Dioxane	82		-		70-130	-		25
Trichloroethene	88		-		70-130	-		25
2,2,4-Trimethylpentane	81		-		70-130	-		25
cis-1,3-Dichloropropene	87		-		70-130	-		25
4-Methyl-2-pentanone	74		-		70-130	-		25
trans-1,3-Dichloropropene	73		-		70-130	-		25
1,1,2-Trichloroethane	86		-		70-130	-		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER DURASPEC

Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3								
Toluene	89		-		70-130	-		25
2-Hexanone	81		-		70-130	-		25
Dibromochloromethane	99		-		70-130	-		25
1,2-Dibromoethane	97		-		70-130	-		25
Tetrachloroethene	93		-		70-130	-		25
1,1,1,2-Tetrachloroethane	90		-		70-130	-		25
Chlorobenzene	97		-		70-130	-		25
Ethylbenzene	96		-		70-130	-		25
p/m-Xylene	97		-		70-130	-		25
Bromoform	95		-		70-130	-		25
Styrene	98		-		70-130	-		25
1,1,2,2-Tetrachloroethane	103		-		70-130	-		25
o-Xylene	98		-		70-130	-		25
1,2,3-Trichloropropane ¹	89		-		70-130	-		25
Isopropylbenzene	96		-		70-130	-		25
Bromobenzene ¹	91		-		70-130	-		25
4-Ethyltoluene	94		-		70-130	-		25
1,3,5-Trimethylbenzene	100		-		70-130	-		25
1,2,4-Trimethylbenzene	95		-		70-130	-		25
Benzyl chloride	89		-		70-130	-		25
1,3-Dichlorobenzene	108		-		70-130	-		25
1,4-Dichlorobenzene	107		-		70-130	-		25
sec-Butylbenzene	94		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1581374-3								
p-Isopropyltoluene	89		-		70-130	-		25
1,2-Dichlorobenzene	105		-		70-130	-		25
n-Butylbenzene	97		-		70-130	-		25
1,2-Dibromo-3-chloropropane	86		-		70-130	-		25
1,2,4-Trichlorobenzene	91		-		70-130	-		25
Naphthalene	89		-		70-130	-		25
1,2,3-Trichlorobenzene	88		-		70-130	-		25
Hexachlorobutadiene	99		-		70-130	-		25

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1581371-5 QC Sample: L2164604-02 Client ID: IAQ-FIRST-112021						
Dichlorodifluoromethane	0.428	0.461	ppbV	7		25
Chloromethane	0.512	0.531	ppbV	4		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	10.4	11.0	ppbV	6		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	2.15	2.51	ppbV	15		25
Trichlorofluoromethane	0.209	0.220	ppbV	5		25
iso-Propyl Alcohol	0.614	0.647	ppbV	5		25
tert-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
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
2-Butanone	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1581371-5 QC Sample: L2164604-02 Client ID: IAQ-FIRST-112021						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	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
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
Xylene (Total)	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
Toluene	0.506	0.542	ppbV	7		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1581371-5 QC Sample: L2164604-02 Client ID: IAQ-FIRST-112021						
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
1,2-Dichloroethene (total)	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
1,3-Dichloropropene, Total	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

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER DURASPEC

Project Number: 3612162326.05

Lab Number: L2164604

Report Date: 12/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1581374-5 QC Sample: L2164604-02 Client ID: IAQ-FIRST-112021						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.066	0.062	ppbV	6		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	0.034	0.035	ppbV	3		25
1,2-Dichloroethene (total)	ND	ND	ppbV	NC		25

Project Name: FORMER DURASPEC

Serial_No:12102114:45
Lab Number: L2164604

Project Number: 3612162326.05

Report Date: 12/10/21

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
L2164604-01	IAQ-BASEMENT-112021	01661	Flow 4	11/11/21	370127		-	-	-	Pass	10.0	10.0	0
L2164604-01	IAQ-BASEMENT-112021	3307	6.0L Can	11/11/21	370127	L2160179-08	Pass	-29.5	-9.6	-	-	-	-
L2164604-02	IAQ-FIRST-112021	0718	Flow 4	11/11/21	370127		-	-	-	Pass	9.9	8.2	19
L2164604-02	IAQ-FIRST-112021	2324	6.0L Can	11/11/21	370127	L2160179-08	Pass	-29.4	-8.5	-	-	-	-

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

Lab Number: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 11/08/21 19:06
Analyst: TS

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: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
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: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
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: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
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:** L2160179**Project Number:** CANISTER QC BAT**Report Date:** 12/10/21**Air Canister Certification Results**

Lab ID: L2160179-08

Date Collected: 11/03/21 08:00

Client ID: CAN 2723 SHELF 40

Date Received: 11/03/21

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	85		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	85		60-140

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

Lab Number: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 11/08/21 19:06
Analyst: TS

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: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
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	0.200	--	ND	1.04	--		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: L2160179
Report Date: 12/10/21

Air Canister Certification Results

Lab ID: L2160179-08
Client ID: CAN 2723 SHELF 40
Sample Location:

Date Collected: 11/03/21 08:00
Date Received: 11/03/21
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	86		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	91		60-140



Project Name: FORMER DURASPEC**Lab Number:** L2164604**Project Number:** 3612162326.05**Report Date:** 12/10/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

N/A Absent

Container Information**Container ID** **Container Type**

L2164604-01A Canister - 6 Liter

L2164604-02A Canister - 6 Liter

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

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: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

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.

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'.

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.

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.)

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.
- 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

Report Format: Data Usability Report



Project Name: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

Data Qualifiers

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: FORMER DURASPEC
Project Number: 3612162326.05

Lab Number: L2164604
Report Date: 12/10/21

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



CHAIN OF CUSTODY

Project Information

Project Name: Former Duraspec

Project Location: Jamaica, NY

Project #: 3612162326

Project Manager: Eric Weinstock

ALPHA Quote #: Q7168_R3

Turn-Around-Time

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

Date Due: Time:

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

Client Information

Client: Amec E&E PC

Address: 209-35 Northern Boulevard
Bayside, NY 11361

Phone: 347-836-4343

Fax:

Email: julie.ricardi@woodplc.com

☐ These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments:

☐ Project-Specific Target Compound List

Please provide Category B report

Also please CC email puccio@woodplc.com

All Columns Below Must Be Filled Out

Alpha Lab Use Only	Sample ID	Collection					Sample Matrix*	Sampler Initials	Can Size	ID Can	ID Flow Controller	TO-15	TO-15 SIM	APH Subtract non-petroleum HCs	FIXED GASES	Sulfides & Mercaptans by TO-15	Sample Specific Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vac	Final Vac											
64604-01	IAQ-BASEMENT-112021	11/18/21	1034	1703	-32.0	-10.48	AA	MB	6L	3307	0661	☒	☒	☐	☐	☐	
-02	IAQ-FIRST-112021	11/18/21	955	1706	-30.46	-10.94	AA	MB	6L	2324	0718	☒	☒	☐	☐	☐	
												☐	☐	☐	☐	☐	
												☐	☐	☐	☐	☐	
												☐	☐	☐	☐	☐	
												☐	☐	☐	☐	☐	
												☐	☐	☐	☐	☐	

*SAMPLE MATRIX CODES:

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

Form 101-02 (1) Rev: 25-Sept-15

Container Type

Relinquished By	Date/Time	Received By:	Date/Time
Mike Bates	11/23/21 12:10	Kim L. Bailey	11/23/21 0500
Amec E&E PC	11/23/21 18:00	Kim L. Bailey	11/23/21 20:30
Amec E&E PC	11/23/21	Kim L. Bailey	11/23/21 0500

Please print clearly & legibly and completely. Samples cannot be logged in and turn around time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms

Date Rec'd in Lab: 11/23/21

ALPHA Job #: 2264604

Report/Data Deliverables Information

☐ FAX☐ EMAIL☒ ADEx☒ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #: C012506244

Regulatory Requirements/Report Limits

State/Fed	Program	Residential/Commercial

Analysis