

December 31, 2024

Division of Environmental Remediation
Remedial Bureau E, 12th Floor
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017

Attention: Charles Gregory, Project Manager

**Subject: November 2024 Confirmatory Indoor Air Sampling Report
Scobell Chemical – NYSDOT Site (NYSDEC #828076) Remedial Design WA
D009809-26 Earth Environment Engineering and Geology, P.C. Project No. US-
EI-3616216143**

Dear Mr. Gregory:

Earth Environment Engineering and Geology, P.C., (EEE&G, formerly MACTEC Engineering and Geology, PC [MACTEC]), under contract to the New York State Department of Environmental Conservation (NYSDEC) (Work Assignment No. D009809-26) is pleased to present this letter report documenting the November 2024 confirmatory indoor air sampling results within a portion of the 80 Rockwood Place commercial building in Rochester, New York. Work was completed as part of remedial activities associated with the Scobell Chemical-New York State Department of Transportation (NYSDOT) site (Site), NYSDEC site #828076 (**Figure 1**). The Site is located immediately adjacent to the 80 Rockwood Place building where the sampling event took place.

BACKGROUND

The Scobell Chemical – NYSDOT site is the location of a former chemical repackaging company that operated from the 1920's until 1986. Company operations primarily included the purchase of bulk assorted chemicals and repackaging them into smaller chemicals for resale. In 1988 as part of a NYSDOT highway reconstruction project, the site buildings were removed and contamination was

discovered at the site including abandoned drums and contaminated structures, soil and bedrock. Multiple investigations and remedial activities have been conducted at the Site and surrounding properties, including the 80 Rockwood Place property, since its closure and redevelopment by the NYSDOT. Based on previous soil vapor and indoor air sampling results for trichloroethene (TCE) at 80 Rockwood Place (located adjacent and to the west of the Site), sub-slab depressurization systems (SSDSs) were installed in 2012 and upgraded 2015 to address Soil Vapor Intrusion (SVI) concerns. Systems were installed within the main commercial building and in the smaller former boiler plant, located north of the main building and joined by a small connector hallway (**Figure 2**). In March 2024, additional SSDSs were installed in the central and northwestern portions of the main building in response to SVI sampling and differential pressure tests conducted in 2016, 2019, and 2023 that raised concerns about vapor intrusion in this portion of the building. In March 2024, one week after installation of the additional systems, SSDS confirmatory air sampling was conducted in the main building that demonstrated the system was operating as designed and mitigating a potential vapor intrusion risk in the main building. Previous air sampling of the former boiler plant also demonstrated that the SSDS was functioning effectively in this area.

The Sub-Slab Depressurization System Construction Completion Report (MACTEC, 2024) stated that the potential for SVI within the main building and former boiler plant had been shown to be mitigated through sampling; however, it also recommended that an additional indoor air sample be collected from the small connector building between the main building (referenced as Building 1) and the former boiler house (referenced as Building 4) (**Figure 2**). Previous sampling in 2015 indicated elevated concentrations of trichloroethene in the indoor air in this building/room (former glass studio gallery and office) and sampling had not been conducted in this area post mitigation to confirm that air within that space meets New York State Department of Health (NYSDOH) guideline values for chlorinated compounds.

Sampling was therefore conducted to evaluate this space, and this report summarizes the results of that sampling.

SAMPLING OBJECTIVES

Volatile organic compounds (VOCs), including chlorinated solvents, can partition from soil and groundwater to soil vapor and then migrate through the soil column. Soil vapor can be drawn into buildings through openings and cracks in foundations and floor slabs in a process known as soil vapor

intrusion. The objectives of the November 2024 sampling event was to determine if the previously installed SSDSs were mitigating the potential for vapor intrusion into the small connector building located between the main building and the former boiler house at 80 Rockwood Place in Rochester, NY.

2024 AIR SAMPLING

Completed activities included collection of an indoor air sample (IA-004-Gallery) plus a duplicate (IA-004-GalleryDUP) from the connector building, and an outdoor ambient air sample (AA-004-1) from approximately 60 feet away and to the northwest of the connector building. Sample collection locations are shown in **Figure 2**.

Work was conducted in accordance with the NYSDEC Division of Environmental Remediation (DER)-10 Guidance (NYSDEC, 2010), the MACTEC Quality Assurance Program Plan (MACTEC, 2020), and the NYSDOH vapor intrusion guidance (NYSDOH, 2006).

Indoor air samples were collected on November 11, 2024, from the approximate middle of the connector building at a height of 4.8' above ground surface (ags). The connector building is a single story, concrete slab on grade building with concrete block wall construction. No windows are present. The building is connected to the main building by a doorway that was observed to be closed at the time of sampling. The connector building is connected to the former boiler plant by a threshold that was open at the time of sampling. The ambient air sample was collected along an exterior chain link fence line from a height of 4.9' ags. Ground surfaces in the location of the ambient air sample were observed to be cracked asphalt and gravel. Samples were obtained over an approximate 8-hour period. Field measurements, photographs and sampling activities were documented using Indoor Air Sampling Forms included in **Attachment 1**.

Samples were analyzed by ALS of California for VOCs via United States Environmental Protection Agency Method TO-15 with a detection limit of approximately 1 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) for most compounds and a detection limit of 0.27 $\mu\text{g}/\text{m}^3$ or lower for TCE, vinyl chloride, and carbon tetrachloride in the indoor/ambient air samples. Laboratory data review of indoor air, and ambient air samples included a Data Usability Summary Report (DUSR) prepared in accordance with NYSDEC DER-10 guidance (NYSDEC, 2010). Based on the review, the data was reported as usable as qualified

in the DUSR. A copy of the DUSR report is included as **Attachment 2**. Laboratory analytical data sheets are included as **Attachment 3**.

Structure identification (ID) for the location sampled, along with address and sample IDs are presented in **Table 1**. Sample results are presented in **Table 2**.

Please feel free to contact us if you have any questions.

Sincerely,

Earth Environment Engineering and Geology, P.C.



Charles R. Staples, PG
Project Manager

Enclosures (8)

- Figure 1: Site Location
- Figure 2: Sample Locations 80 Rockwood Place
- Table 1: November 2024 Air Sampling Locations
- Table 2: Air VOC Results
- Attachment 1: “Indoor Air Questionnaires and Building Inventory” forms and Photo Log
- Attachment 2: Data Usability Summary Report
- Attachment 3: Laboratory Analytical Data Sheets

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AA	Ambient Air
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
DUP	Duplicate Sample
IA	Indoor Air
ID	identifications
MACTEC	MACTEC Engineering and Geology, P.C.
$\mu\text{g}/\text{m}^3$	microgram(s) per cubic meter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
Site	Scobell Chemical– NYSDOT Site
SSDS	Sub-Slab Depressurization System
SVI	Soil Vapor Intrusion
TCE	trichloroethene
VOC	Volatile Organic Compound

REFERENCES

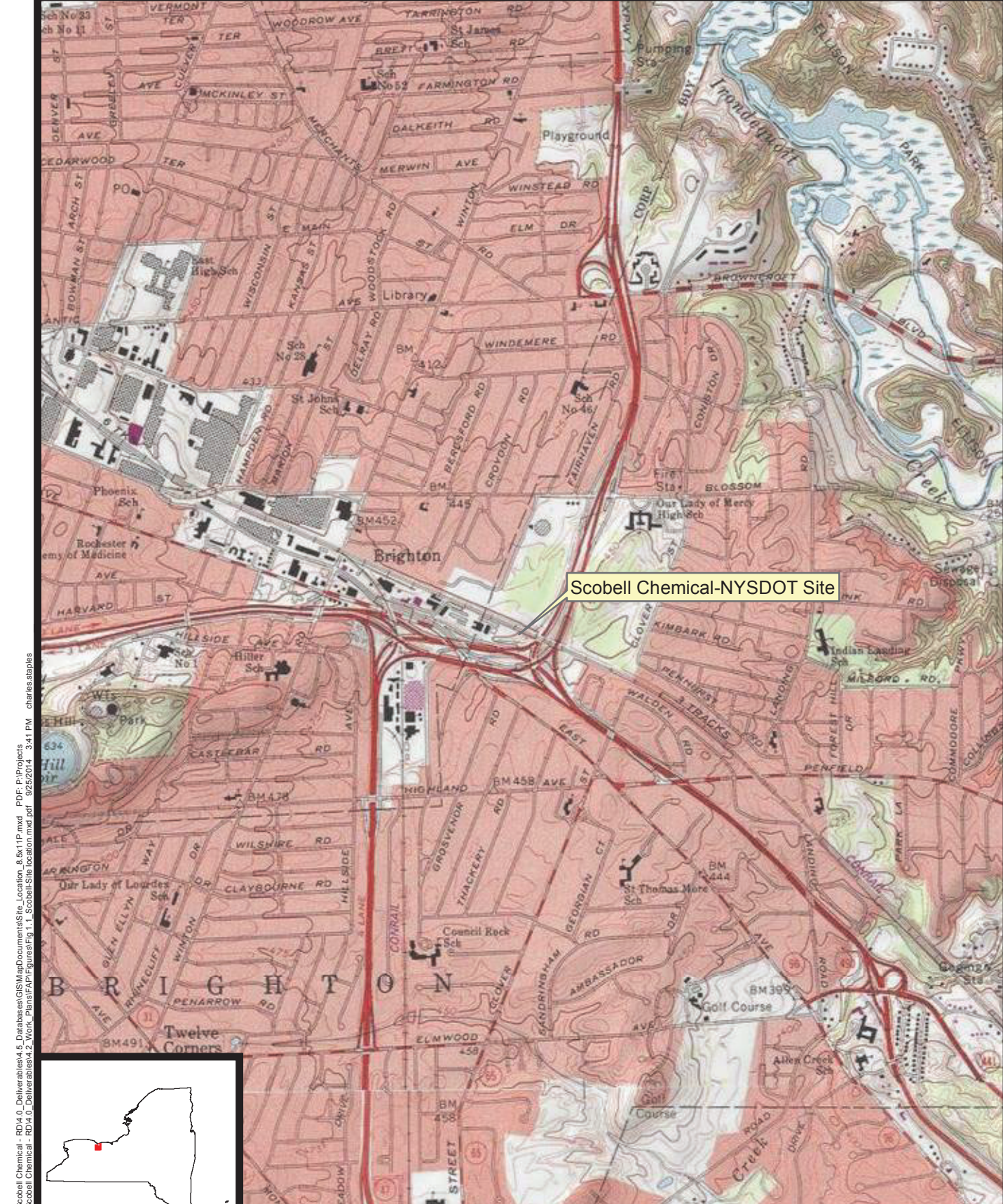
MACTEC Engineering and Geology, P.C. (MACTEC), 2024. 80 Rockwood Place Sub-Slab Depressurization System Construction Completion Report – Revision 1. Scobell Chemical. August 2024.

MACTEC Engineering and Geology, P.C. (MACTEC), 2020. Quality Assurance Program Plan and Program Field Activities Plan. Prepared for the New York State Department of Environmental Conservation, Albany, New York. April 2020.

NYSDEC, 2010. DER-10, Technical Guidance for Site Investigation and Remediation. May 3, 2010.

NYSDOH, 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006; updated May 2017.

FIGURES



Scobell Chemical-NYS DOT Site

Document: P:\Projects\Projects\Scobell Chemical - RDX\0_Deliverables\4.5_Databases\GIS\MapDocuments\Site_Location_8.5x11P.mxd, PDF: P:\Projects\Projects\Scobell Chemical - RDX\0_Deliverables\4.5_Databases\GIS\MapDocuments\Site_Location_8.5x11P.mxd, P:\Projects\Projects\Scobell Chemical - RDX\0_Deliverables\4.2_Work_Plans\FAP\Figures\Fig_1.1_ScobellSiteLocation.mxd.pdf, 9/25/2014, 3:41 PM, charles.staples



Service Layer Credits: Copyright:© 2011 National Geographic Society, i-cubed

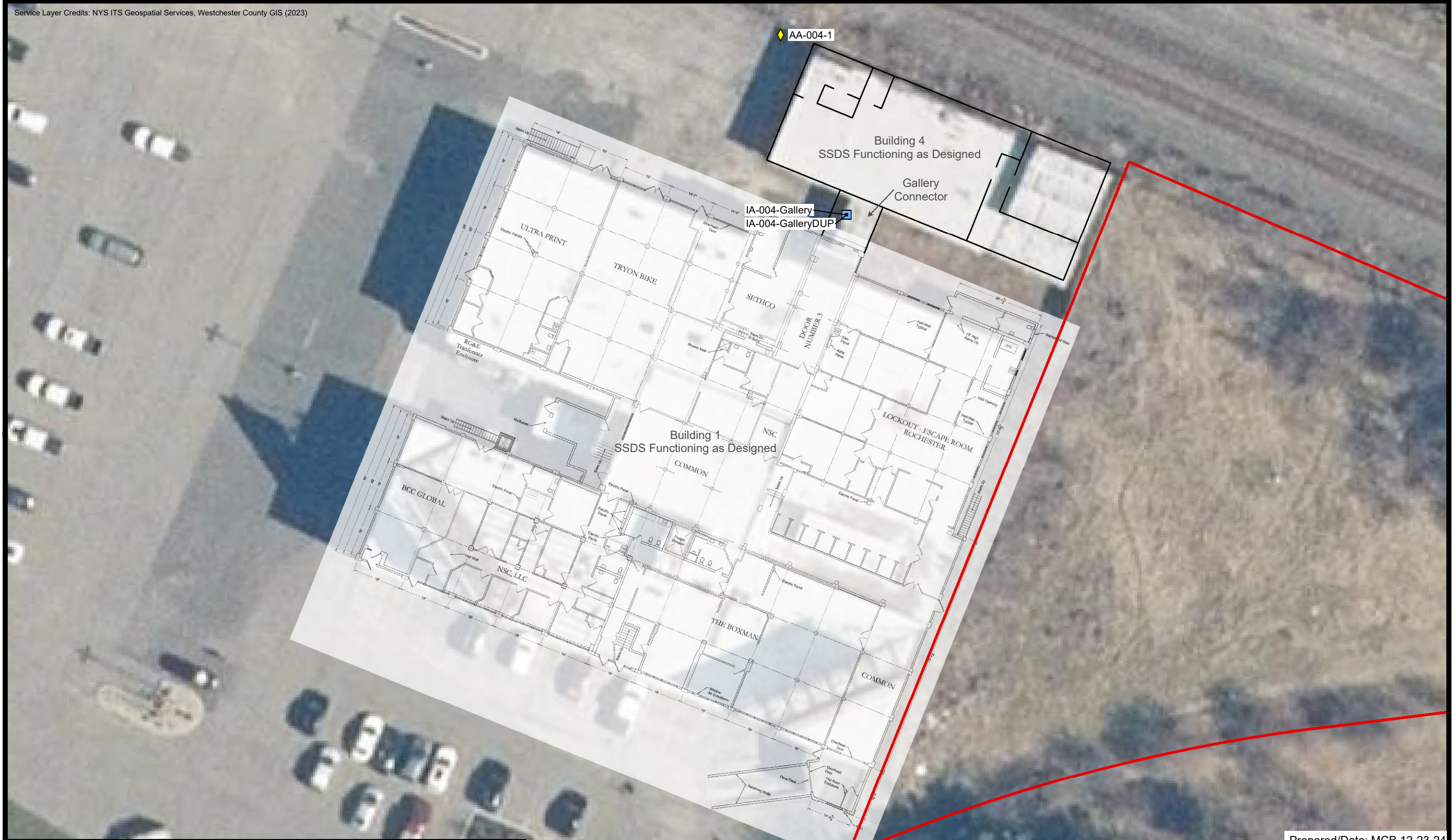
Prepared/Date: CRS 09/25/24
Checked/Date: BPN 09/25/24

**SCOBELL CHEMICAL-NYS DOT
SITE # 828076
BRIGHTON, NEW YORK**

**EARTH
ENVIRONMENT**
Engineering and Geology P.C.

Site Location
Project 3616216143 Figure 1

Service Layer Credits: NYS ITS Geospatial Services, Westchester County GIS (2023)

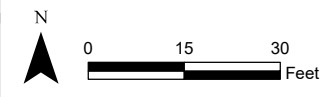


Legend

Sample Locations: Site Boundary

■ Indoor Air

◆ Ambient Air



**SCOBELL CHEMICAL-
NYS DOT SITE # 828076
BRIGHTON, NEW YORK**

**EARTH
ENVIRONMENT**
Engineering and Geology P.C.

Sample Locations
80 Rockwood Place
Project 3616216143

Prepared/Date: MCB 12-23-24
Checked/Date: CRS 12-23-24

TABLES

Table 1: November 2024 Air Sampling Locations

Structure ID/ Location	Structure Address	Structure Use (SVI Status)	Sample ID [a]	Sump/Floor Drain Present?
Building 4 Gallery (connector building)	80 Rockwood Place, Rochester	Commercial	IA-004-Gallery	None Observed
			IA-004-GalleryDUP	
Ambient Air [b]	80 Rockwood Place, Rochester	NA	AA-004-1	NA

Notes:

- IA = Indoor air sample (collected from the slab on grade room).
- AA = Ambient air sample
- 004 = Site Location (i.e. 4 = Building 4)
- DUP at end = duplicate

[b] Ambient air samples was collected from the vicinity of the former boiler plant

NA= Not applicable

Table 2: Air VOC Results

Parameter	Location	AA-004		Glass Studio-Gallery		Glass Studio-Gallery	
	Lab Sample Delivery Group	Result	Qualifier	Result	Qualifier	Result	Qualifier
	Field Sample Date	11/11/2024		11/11/2024		11/11/2024	
	Field Sample ID	AA-004-1		IA-004-Gallery		IA-004-Gallery DUP	
	Qc Code	FS		FS		FD	
1,1,1-Trichloroethane		0.14 U		0.097 J		0.11 J	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)		0.53 J		0.54 J		0.53 J	
1,2,4-Trimethylbenzene		0.12 J		1.3		1.9	
1,2-Dichloro-1,1,2,2-tetrafluoroethane		0.11 J		0.75 U		0.13 J	
1,3,5-Trimethylbenzene		0.71 U		0.27 J		0.53 J	
1,4-Dioxane		0.7 U		0.74 U		0.19 J	
2-Butanone		0.76 J		1.9		1.7	
2-Hexanone		0.11 J		0.31 J		0.28 J	
2-Propanol		2.3		3.7		4.1	
4-Ethyltoluene		0.69 U		0.41 J		0.49 J	
4-Methyl-2-pentanone		0.27 J		0.14 J		0.17 J	
Acetone		5.8 J		21		20	
Benzene		0.43		0.76		0.8	
Carbon disulfide		1.4 U		1.4 U		0.39 J	
Carbon tetrachloride		0.42		0.41		0.41	
Chloroform		0.1 J		0.24		0.27	
Chloromethane		0.35		0.58		0.6	
Dichlorodifluoromethane		2.3		2.2		2.3	
Ethyl acetate		6.1		3.1		3.9	
Ethylbenzene		0.16 J		1.4		1.6	
Heptane		0.51 J		0.6 J		0.67 J	
Hexane		0.5 J		0.45 J		0.48 J	
Isopropylbenzene		0.69 U		0.14 J		0.17 J	
Methylene chloride		0.47 J		1.9		1.9	
Naphthalene		0.72 U		0.34 J		0.29 J	
Styrene		0.7 U		0.12 J		0.22 J	
Tetrachloroethene		0.15 U		0.72		0.78	
Toluene		1.4		3.1		3.4	
Trichloroethene		0.14 U		0.23		0.27	
Trichlorofluoromethane		1.1		1.1		1.1	
Xylene, o		0.18 J		1.6		1.9	
Xylenes (m&p)		0.43 J		4		5	

Notes:

Volatile Organic Compounds by Method TO15.

Results in micrograms per cubic meter (µg/m3).

Only detected compounds shown

Detected compounds in bold.

Qualifier

U = not detected at the reporting limit

J = estimated value

Location ID:

IA = indoor air sample

AA = outdoor ambient air sample

QC Code: FS = Field Sample; FD = Field Duplicate

ATTACHMENT 1

**“INDOOR AIR QUESTIONNAIRES AND BUILDING INVENTORY”
FORMS AND PHOTO LOG**



Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Site Name: Scobell Chemical Site Code: 828076 Operable Unit: NA
 Building Code: NA Building Name: Structure 4 - Gallery Connector
 Address: 80 Rockwood Place Apt/Suite No: NA
 City: Rochester State: NY Zip: 14610 County: Monroe

Contact Information

Preparer's Name: Mason Comrie Phone No: 203 444 8228 ^(MEC)
~~585-851-8067~~
 Preparer's Affiliation: WSP - Mactec Company Code: _____
 Purpose of Investigation: Indoor + Ambient Air Sampling Date of Inspection: 11/11/2024
 Contact Name: Jim ^(MEC) Matt Bucci Affiliation: Manager
 Phone No: 585-851-8067 Alt. Phone No: _____ Email: _____
 Number of Occupants (total): 0 Number of Children: 0
 Occupant Interviewed? no Owner Occupied? no Owner Interviewed?
 Owner Name (if different): _____ Owner Phone: _____ no
 Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): Commercial / Mixed Bldg Size (S/M/L): Medium
 If Commercial or Industrial Facility, Select Operations: Multi use - art gallery
 If Residential Select Structure Type: _____
 Number of Floors: 2 Approx. Year Construction: unk Building Insulated? Attached Garage?
 Describe Overall Building 'Tightness' and Airflows (e.g., results of smoke tests):
n/a

Foundation Description

Foundation Type: Slab on grade / Basement - Partial Foundation Depth (bgs): 8 Unit: FEET
 Foundation Floor Material: Poured Concrete Foundation Floor Thickness: _____ Unit: INCHES
 Foundation Wall Material: Laid up stone Foundation Wall Thickness: ~14
 Floor penetrations? Describe Floor Penetrations: _____
 Wall penetrations? Describe Wall Penetrations: _____
 Basement is: n/a Basement is: n/a Sumps/Drains? Water In Sump?: _____
 Describe Foundation Condition (cracks, seepage, etc.): Some small cracks near walls / doorways
 Radon Mitigation System Installed? unk VOC Mitigation System Installed? Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: Forced hot air Heat Fuel Type: GAS Central A/C Present?

Vented Appliances

Water Heater Fuel Type: _____ Clothes Dryer Fuel Type: _____
 Water Htr Vent Location: _____ Dryer Vent Location: _____



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Site Name: Scobell Chemical Site Code: 828076 Operable Unit: —

Building Code: _____ Building Name: Structure 4

Address: 80 Rockwood Place Apt/Suite No: _____

City: Rochester State: NY Zip: 14610 County: Monroe

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: Almost never Floor Material: Cement

Inhabited? HVAC System On? Bathroom Exhaust Fan? Kitchen Exhaust Fan?

Alternate Heat Source: _____ Is there smoking in the building?

Air Fresheners? Description/Location of Air Freshener: Spray can of Glade air freshener found in main room, near side door entrance Potential - smelled like smoke

Cleaning Products Used Recently?: Description of Cleaning Products: See below

Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

New Carpet or Furniture? Location of New Carpet/Furniture: _____

Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

Recent Painting/Staining? Location of New Painting: _____

Solvent or Chemical Odors? Describe Odors (if any): Faint cigarette/tobacco smell

Do Any Occupants Use Solvents At Work? If So, List Solvents Used: _____

Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use, storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

No evidence of recent use of cleaning products, cosmetic products, dry cleaning, recent painting, solvent use, or recent pesticide use. General cleaning products stored in back storage room, across building from sample area; previously documented. Building is used as storage for antique furniture and paintings.
Wood cleaner/polish, Goof off, and window cleaner stored in main room near side entrance door. No evidence of recent use. Spray can of air freshener in this area as well - no evidence of recent use. Computer dust remover can also in this area - appears to be old w/ no evidence of recent use.

Any Prior Testing For Radon? If So, When?: _____

Any Prior Testing For VOCs? If So, When?: 2012, 2013, 2015 - ongoing investigation

Sampling Conditions

Weather Conditions: cloudy + windy Outdoor Temperature: 52 °F

Current Building Use: Storage for antique furniture + paintings Barometric Pressure: 29.70 in(hg)

Product Inventory Complete? yes Building Questionnaire Completed? no

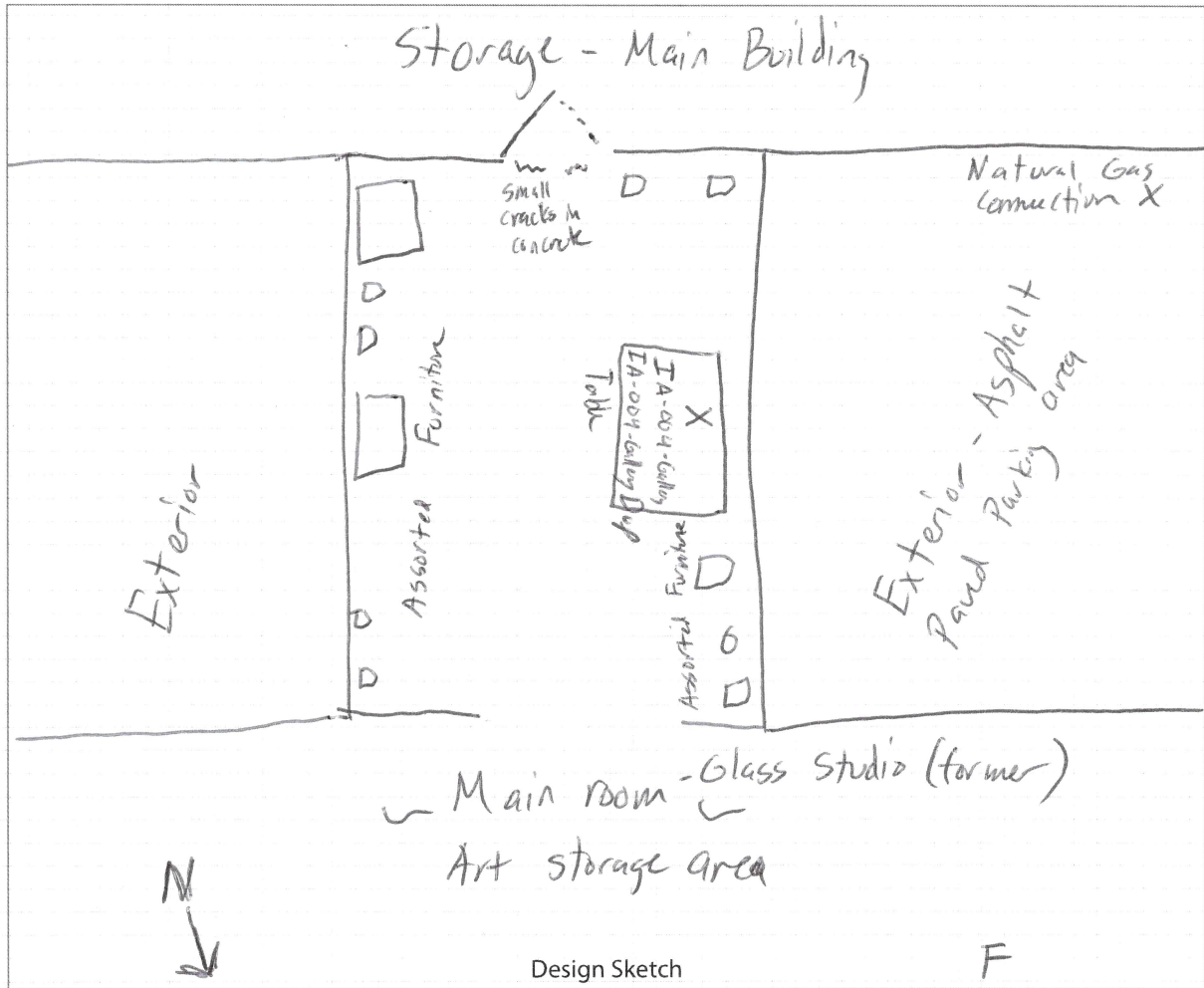


Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

Lowest level / FIRST FLOOR BUILDING LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the first floor of the building. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

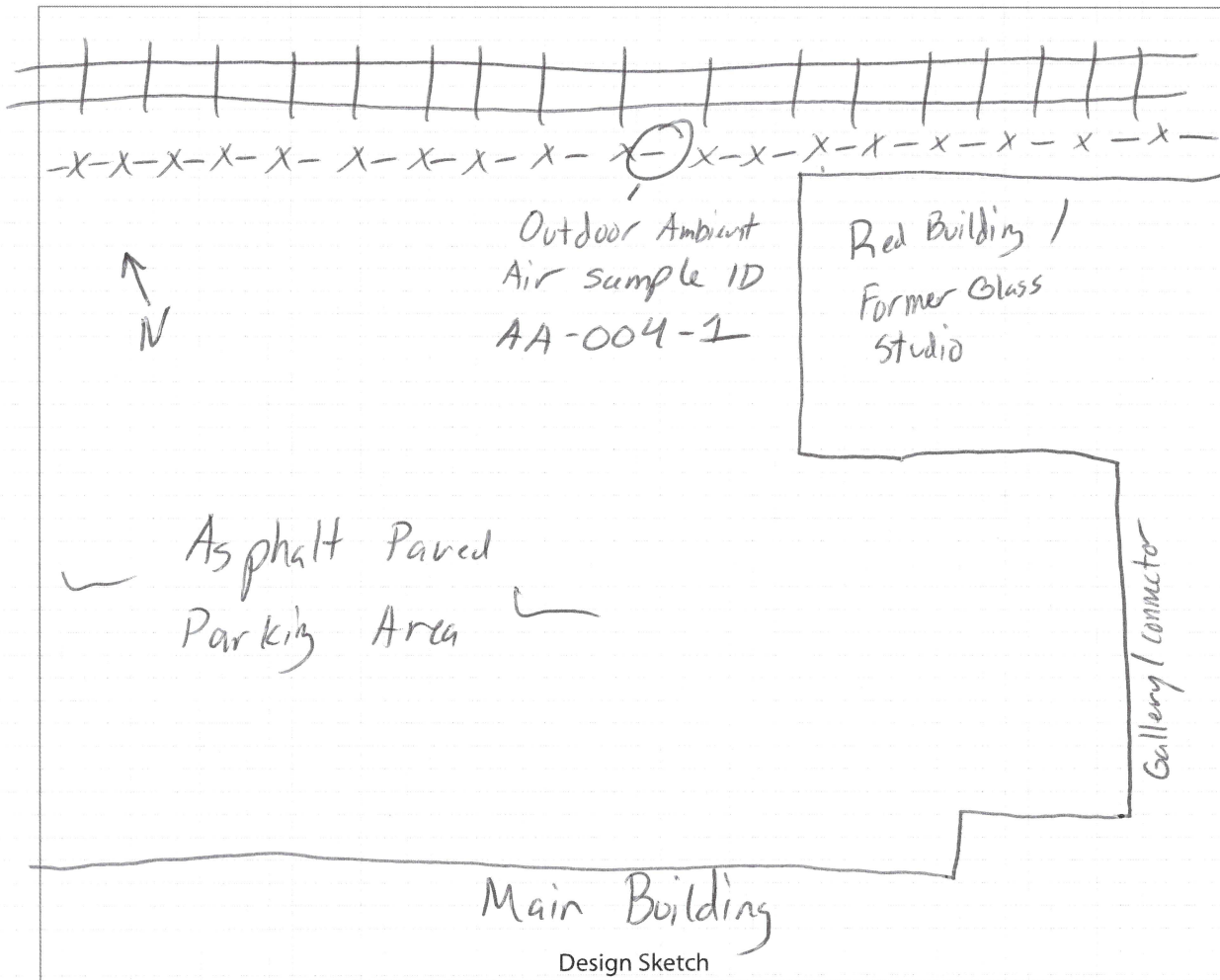


Structure Sampling Questionnaire and Building Inventory
New York State Department of Environmental Conservation

OUTDOOR PLOT LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the outdoor plot of the building as well as the surrounding area. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
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WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
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@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.



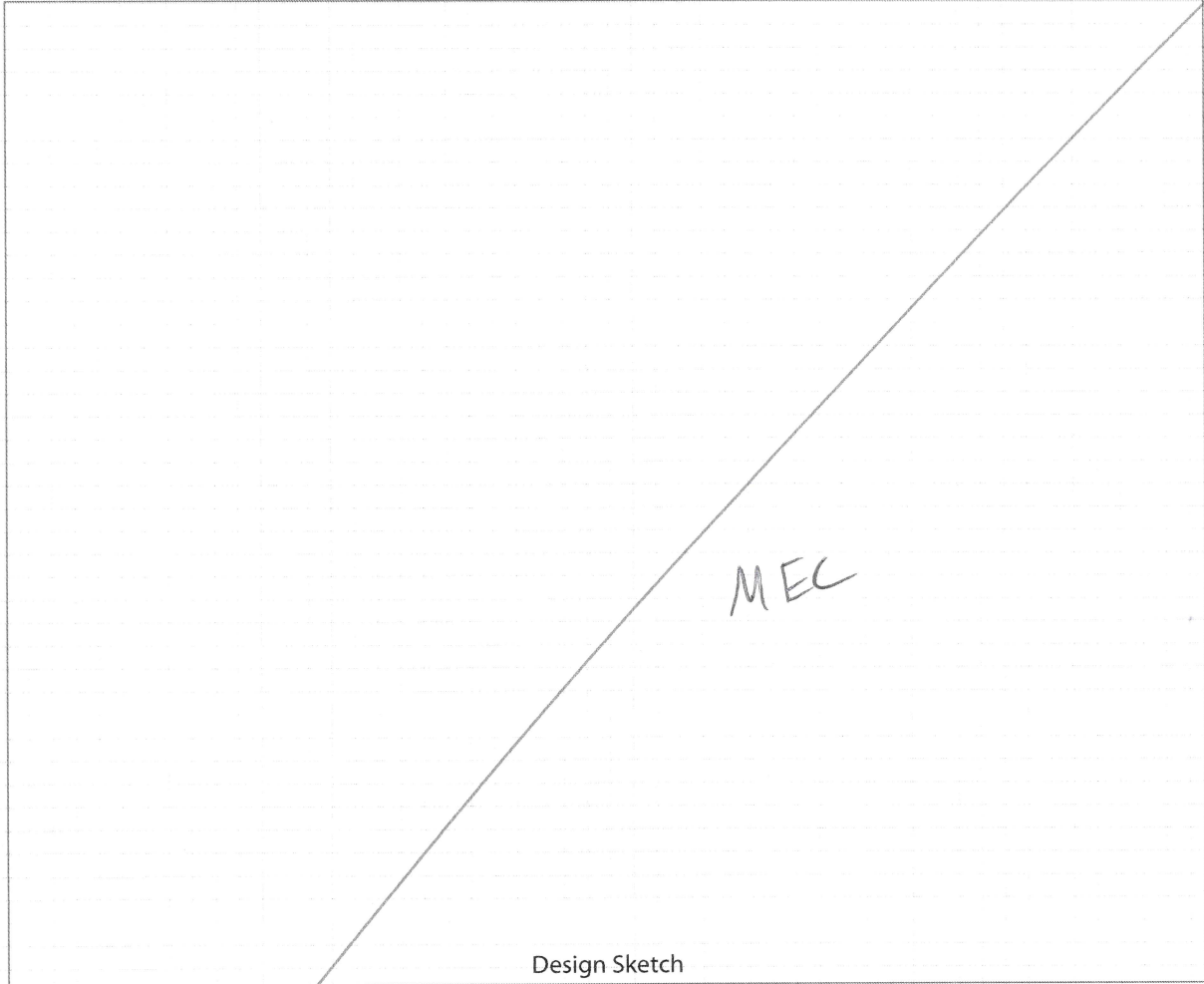
Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

LOWEST BUILDING LEVEL LAYOUT SKETCH

Please click the box with the blue border below to upload a sketch of the lowest building level. The sketch should be in a standard image format (.jpg, .png, .tiff)

Clear Image



Design Sketch Guidelines and Recommended Symbology

- Identify and label the locations of all sub-slab, indoor air, and outdoor air samples on the layout sketch.
- Measure the distance of all sample locations from identifiable features, and include on the layout sketch.
- Identify room use (bedroom, living room, den, kitchen, etc.) on the layout sketch.
- Identify the locations of the following features on the layout sketch, using the appropriate symbols:

B or F	Boiler or Furnace	o	Other floor or wall penetrations (label appropriately)
HW	Hot Water Heater	xxxxxxx	Perimeter Drains (draw inside or outside outer walls as appropriate)
FP	Fireplaces	#####	Areas of broken-up concrete
WS	Wood Stoves	● SS-1	Location & label of sub-slab samples
W/D	Washer / Dryer	● IA-1	Location & label of indoor air samples
S	Sumps	● OA-1	Location & label of outdoor air samples
@	Floor Drains	● PFET-1	Location and label of any pressure field test holes.

Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 1

Direction:

East

Description:

Interior of former boiler plant – now occupied by commercial art studio



Photographer:

Flynn Dorn

Date:

November 11, 2024

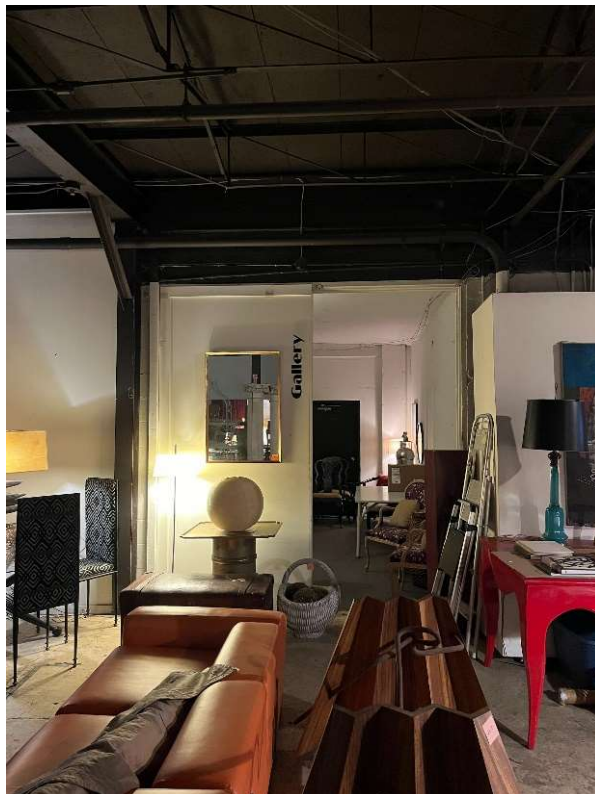
Photograph: 2

Direction:

South

Description:

Interior of former boiler plant – facing gallery connector building



Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 3

Direction:

South

Description:

Interior of gallery connector building – IA-004-Gallery sample point can be observed to the right



Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 4

Direction:

Northwest

Description:

IA-004-Gallery sample point and DUP



Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

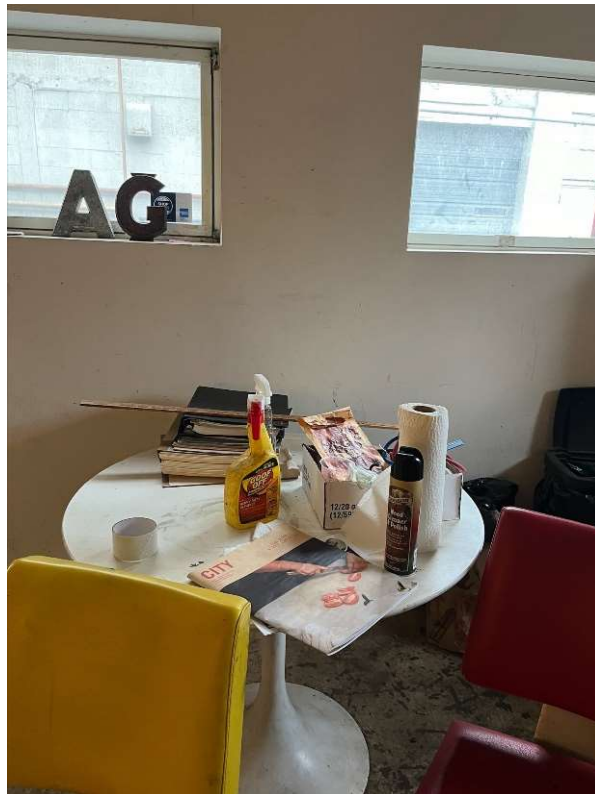
Photograph: 5

Direction:

South

Description:

Former boiler plant
chemical inventory
located in the
art studio office area



Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 6

Direction:

unk

Description:

Former boiler plant
chemical inventory
located in the
rear utility closet area



Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 7

Direction:

unk

Description:

Former boiler plant
chemical inventory
located in the
rear utility closet area



Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 8

Direction:

unk

Description:

Former boiler plant
chemical inventory
located in the
rear utility closet area



Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 9

Direction:

unk

Description:

Permanent vacuum test point located in former boiler plant showing system functioning properly



Photographer:

Flynn Dorn

Date:

November 11, 2024

Photograph: 10

Direction:

East

Description:

Exterior of former boiler plant showing ambient air sample location on fence line



Attachment 1 – Air Sampling Photographic Log

Client: NYSDEC

Project Number: 3616216143

Site Name: Scobell Chemical

Site Location: Brighton, New York.

Photographer:

Flynn Dorn

Date:

November 11, 2024

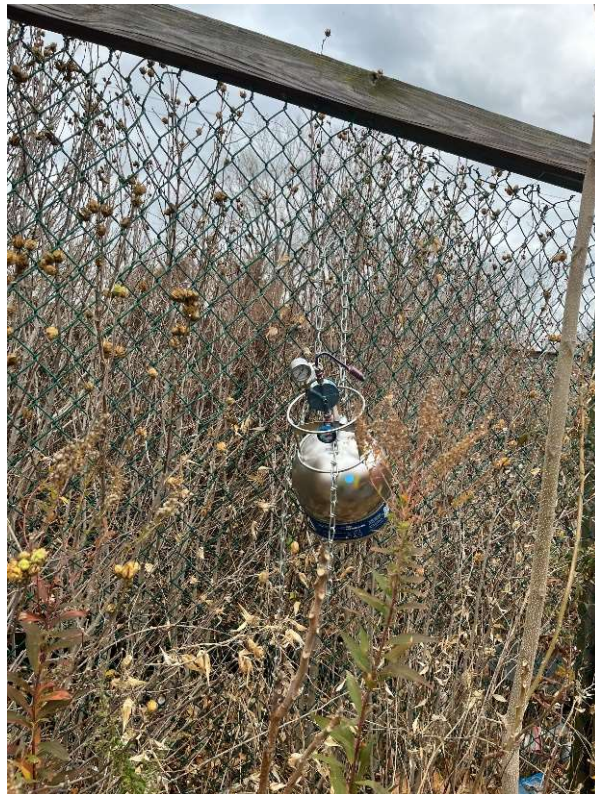
Photograph: 11

Direction:

Northeast

Description:

Ambient air sample
location setup on fence
line



ATTACHMENT 2

DATA USABILITY SUMMARY REPORTS

**DATA USABILITY SUMMARY REPORT
NOVEMBER 2024 SAMPLING EVENT
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK
SDG P2404653**

1.0 INTRODUCTION

Air samples were collected at Scobell Chemical - NYSDOT in November 2024 and submitted to ALS Environmental located in Simi Valley, CA, for analysis. Samples were analyzed by one or more of the following methods:

- Volatile Organic Compounds (VOCs) by EPA Method TO-15

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

- P2404653

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). 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

Laboratory deliverables included:

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

The DUSR review included the following evaluations. A table of the project control limits 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 Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

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

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the data meets the data quality objectives.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Additional observations and quality control exceedances not specifically addressed above (Section 2.0) are summarized below for air media. Sample results are interpreted to be usable as reported by the laboratory.

Reference:

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, 2016. "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15"; HW-31, Revision 6; Hazardous Waste Support Section; September 2016.

Data Validator: Tara LePage



December 18, 2024

Sr. Reviewed by: Gregory Lull



December 18, 2024

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

EIS – Extracted internal standard recovery outside limits
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

IR – Qualifier ion ratio outside limits
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low

ICVRS – 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

RFL – Qualifier ion signal to noise ratio less than limit
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 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
 DATA USABILITY SUMMARY REPORT
 NOVEMBER 2024 SVI SAMPLING
 SCOBELL CHEMICAL SITE
 BRIGHTON, NEW YORK

Lab	SDG	Media	Location	Field Sample ID	Sample Date	Lab Sample ID	Qc Code	Lab Id Method Class Analysis Method Fraction	ALS VOCs EPA TO-15 N Parameters
P2404653	AIR	AA-004	AA-004	AA-004-1	11/11/2024	P2404653-003	FS		62
P2404653	AIR	Glass Studio-Gallery	IA-004-Gallery	IA-004-Gallery	11/11/2024	P2404653-001	FS		62
P2404653	AIR	Glass Studio-Gallery	IA-004-Gallery DUP	IA-004-Gallery DUP	11/11/2024	P2404653-002	FD		62

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
NOVEMBER 2024 GROUNDWATER AND SOIL SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

				Location	AA-004	Glass Studio-Gallery	Glass Studio-Gallery		
				Lab Sample Delivery Group	P2404653	P2404653	P2404653		
				Field Sample Date	11/11/2024	11/11/2024	11/11/2024		
				Field Sample ID	AA-004-1	IA-004-Gallery	IA-004-Gallery DUP		
				Qc Code	FS	FS	FD		
Method Class	Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	EPA TO-15	1,1,1-Trichloroethane	UG/M3	0.14	U	0.097	J	0.11	J
VOCs	EPA TO-15	1,1,2,2-Tetrachloroethane	UG/M3	0.14	U	0.15	U	0.15	U
VOCs	EPA TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/M3	0.53	J	0.54	J	0.53	J
VOCs	EPA TO-15	1,1,2-Trichloroethane	UG/M3	0.15	U	0.15	U	0.15	U
VOCs	EPA TO-15	1,1-Dichloroethane	UG/M3	0.28	U	0.29	U	0.29	U
VOCs	EPA TO-15	1,1-Dichloroethene	UG/M3	0.12	U	0.13	U	0.12	U
VOCs	EPA TO-15	1,2,4-Trichlorobenzene	UG/M3	1.4	U	1.5	U	1.5	U
VOCs	EPA TO-15	1,2,4-Trimethylbenzene	UG/M3	0.12	J	1.3		1.9	
VOCs	EPA TO-15	1,2-Dibromoethane	UG/M3	0.14	U	0.15	U	0.14	U
VOCs	EPA TO-15	1,2-Dichloro-1,1,2,2-tetrafluoroethane	UG/M3	0.11	J	0.75	U	0.13	J
VOCs	EPA TO-15	1,2-Dichlorobenzene	UG/M3	0.69	U	0.72	U	0.72	U
VOCs	EPA TO-15	1,2-Dichloroethane	UG/M3	0.13	U	0.14	U	0.14	U
VOCs	EPA TO-15	1,2-Dichloropropane	UG/M3	0.15	U	0.15	U	0.15	U
VOCs	EPA TO-15	1,3,5-Trimethylbenzene	UG/M3	0.71	U	0.27	J	0.53	J
VOCs	EPA TO-15	1,3-Butadiene	UG/M3	0.28	U	0.29	U	0.29	U
VOCs	EPA TO-15	1,3-Dichlorobenzene	UG/M3	0.7	U	0.74	U	0.73	U
VOCs	EPA TO-15	1,4-Dichlorobenzene	UG/M3	0.69	U	0.73	U	0.72	U
VOCs	EPA TO-15	1,4-Dioxane	UG/M3	0.7	U	0.74	U	0.19	J
VOCs	EPA TO-15	2-Butanone	UG/M3	0.76	J	1.9		1.7	
VOCs	EPA TO-15	2-Hexanone	UG/M3	0.11	J	0.31	J	0.28	J
VOCs	EPA TO-15	2-Propanol	UG/M3	2.3		3.7		4.1	
VOCs	EPA TO-15	4-Ethyltoluene	UG/M3	0.69	U	0.41	J	0.49	J
VOCs	EPA TO-15	4-Methyl-2-pentanone	UG/M3	0.27	J	0.14	J	0.17	J
VOCs	EPA TO-15	Acetone	UG/M3	5.8	J	21		20	
VOCs	EPA TO-15	Benzene	UG/M3	0.43		0.76		0.8	
VOCs	EPA TO-15	Benzyl chloride	UG/M3	2.8	U	3	U	3	U
VOCs	EPA TO-15	Bromodichloromethane	UG/M3	0.15	U	0.15	U	0.15	U
VOCs	EPA TO-15	Bromoform	UG/M3	0.73	U	0.76	U	0.76	U
VOCs	EPA TO-15	Bromomethane	UG/M3	0.28	U	0.29	U	0.29	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
NOVEMBER 2024 GROUNDWATER AND SOIL SAMPLING
SCOBELL CHEMICAL SITE
BRIGHTON, NEW YORK

			Location	AA-004	Glass Studio-Gallery		Glass Studio-Gallery		
			Lab Sample Delivery Group	P2404653	P2404653		P2404653		
			Field Sample Date	11/11/2024	11/11/2024		11/11/2024		
			Field Sample ID	AA-004-1	IA-004-Gallery		IA-004-Gallery DUP		
			Qc Code	FS	FS		FD		
Method Class	Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	EPA TO-15	Carbon disulfide	UG/M3	1.4	U	1.4	U	0.39	J
VOCs	EPA TO-15	Carbon tetrachloride	UG/M3	0.42		0.41		0.41	
VOCs	EPA TO-15	Chlorobenzene	UG/M3	0.71	U	0.75	U	0.75	U
VOCs	EPA TO-15	Chloroethane	UG/M3	0.29	U	0.31	U	0.3	U
VOCs	EPA TO-15	Chloroform	UG/M3	0.1	J	0.24		0.27	
VOCs	EPA TO-15	Chloromethane	UG/M3	0.35		0.58		0.6	
VOCs	EPA TO-15	cis-1,2-Dichloroethene	UG/M3	0.13	U	0.14	U	0.14	U
VOCs	EPA TO-15	cis-1,3-Dichloropropene	UG/M3	0.7	U	0.74	U	0.73	U
VOCs	EPA TO-15	Cyclohexane	UG/M3	1.4	U	1.4	U	1.4	U
VOCs	EPA TO-15	Dibromochloromethane	UG/M3	0.13	U	0.14	U	0.14	U
VOCs	EPA TO-15	Dichlorodifluoromethane	UG/M3	2.3		2.2		2.3	
VOCs	EPA TO-15	Ethyl acetate	UG/M3	6.1		3.1		3.9	
VOCs	EPA TO-15	Ethylbenzene	UG/M3	0.16	J	1.4		1.6	
VOCs	EPA TO-15	Heptane	UG/M3	0.51	J	0.6	J	0.67	J
VOCs	EPA TO-15	Hexachlorobutadiene	UG/M3	0.69	U	0.73	U	0.72	U
VOCs	EPA TO-15	Hexane	UG/M3	0.5	J	0.45	J	0.48	J
VOCs	EPA TO-15	Isopropylbenzene	UG/M3	0.69	U	0.14	J	0.17	J
VOCs	EPA TO-15	Methyl Tertbutyl Ether	UG/M3	0.7	U	0.74	U	0.73	U
VOCs	EPA TO-15	Methylene chloride	UG/M3	0.47	J	1.9		1.9	
VOCs	EPA TO-15	Naphthalene	UG/M3	0.72	U	0.34	J	0.29	J
VOCs	EPA TO-15	Propylene	UG/M3	0.69	U	0.73	U	0.72	U
VOCs	EPA TO-15	Styrene	UG/M3	0.7	U	0.12	J	0.22	J
VOCs	EPA TO-15	Tetrachloroethene	UG/M3	0.15	U	0.72		0.78	
VOCs	EPA TO-15	Tetrahydrofuran	UG/M3	1.3	U	1.4	U	1.4	U
VOCs	EPA TO-15	Toluene	UG/M3	1.4		3.1		3.4	
VOCs	EPA TO-15	trans-1,2-Dichloroethene	UG/M3	0.28	U	0.29	U	0.29	U
VOCs	EPA TO-15	trans-1,3-Dichloropropene	UG/M3	0.65	U	0.69	U	0.68	U
VOCs	EPA TO-15	Trichloroethene	UG/M3	0.14	U	0.23		0.27	
VOCs	EPA TO-15	Trichlorofluoromethane	UG/M3	1.1		1.1		1.1	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 DATA USABILITY SUMMARY REPORT
 NOVEMBER 2024 GROUNDWATER AND SOIL SAMPLING
 SCOBELL CHEMICAL SITE
 BRIGHTON, NEW YORK

			Location	AA-004	Glass Studio-Gallery	Glass Studio-Gallery			
			Lab Sample Delivery Group	P2404653	P2404653	P2404653			
			Field Sample Date	11/11/2024	11/11/2024	11/11/2024			
			Field Sample ID	AA-004-1	IA-004-Gallery	IA-004-Gallery DUP			
			Qc Code	FS	FS	FD			
Method Class	Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	EPA TO-15	Vinyl acetate	UG/M3	7	U	7.4	U	7.3	U
VOCs	EPA TO-15	Vinyl chloride	UG/M3	0.28	U	0.29	U	0.29	U
VOCs	EPA TO-15	Xylene, o	UG/M3	0.18	J	1.6		1.9	
VOCs	EPA TO-15	Xylenes (m&p)	UG/M3	0.43	J	4		5	

VOCs in Air

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project: **Scobell Chemical Site**

Method : TO-15

Laboratory and SDG(s): **ALS**

SDG# **P2404653**

Date: **12/19/2024**

Reviewer: **T. LePage**

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?
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)
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 backup, no quals
10. **Reporting Limits:** Were samples analyzed at a dilution? YES **NO** (circle one)

11. **Raw Data Review and Calculation Checks**

12. **Electronic Data Review and Edits**

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

13. **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)



Client: WSP USA
Project: Scobell Chemical Project / US-E1-3616216143.02

Service Request No: P2404653

CASE NARRATIVE

The samples were received intact under chain of custody on November 15, 2024 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: WSP USA
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653
 ALS Sample ID: P241203-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 12/3/24
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
124-48-1	Dibromochloromethane	216	245	252	113	117	67-128	3	25	
106-93-4	1,2-Dibromoethane	204	234	242	115	119	69-129	3	25	
127-18-4	Tetrachloroethene	214	225	234	105	109	55-132	4	25	
108-90-7	Chlorobenzene	216	219	228	101	106	63-124	5	25	
100-41-4	Ethylbenzene	218	235	243	108	111	64-119	3	25	
179601-23-1	m,p-Xylenes	432	458	473	106	109	64-121	3	25	
75-25-2	Bromoform	218	275	286	126	131	63-132	4	25	potential high bias, all samples ND, no quals
100-42-5	Styrene	214	251	259	117	121	71-125	3	25	
95-47-6	o-Xylene	216	229	238	106	110	66-122	4	25	
79-34-5	1,1,2,2-Tetrachloroethane	216	223	231	103	107	71-128	4	25	
98-82-8	Cumene	214	228	235	107	110	66-126	3	25	
622-96-8	4-Ethyltoluene	218	237	246	109	113	67-128	4	25	
108-67-8	1,3,5-Trimethylbenzene	216	233	241	108	112	66-125	4	25	
95-63-6	1,2,4-Trimethylbenzene	212	231	241	109	114	67-130	4	25	
100-44-7	Benzyl Chloride	426	498	525	117	123	58-151	5	25	
541-73-1	1,3-Dichlorobenzene	212	222	233	105	110	57-135	5	25	
106-46-7	1,4-Dichlorobenzene	212	216	227	102	107	56-129	5	25	
95-50-1	1,2-Dichlorobenzene	212	216	225	102	106	57-138	4	25	
120-82-1	1,2,4-Trichlorobenzene	436	444	468	102	107	50-137	5	25	
91-20-3	Naphthalene	218	208	225	95	103	50-157	8	25	
87-68-3	Hexachlorobutadiene	212	218	224	103	106	50-133	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

DUSR Calculations Sheet
 Tara LePage
 12/17/2024

Sample ID: IA-004-Gallery
TC: trichloroethene
ICAL Level: 5.0 ng
Val File Result for TC: 0.23 ug/m3

Ical Calc

quant report p.129	Area TC	76262	1	0.274
	Area IS	623155	2	0.285
			3	0.278
	Conc TC	5.25 p.106	4	0.283
	Conc IS	12.5	5	0.291
			6	0.301
	RRF =	0.291382065	7	0.291
			8	0.284
			9	
			10	
		Avg RRF =	0.285875	
		Std Dev =	0.00842509	
		%RSD =	2.947123771	

Sample Calc

quant report p.22	Area TC	2392	Pi	-1.35
	Area IS	634623	Pf	3.92
			Canister DF	1.394756554
	Conc IS	12.5	Vi	1
	Avg RRF	0.285875	Vf	1
			Volume DF	1
	Conc TC (ppbV) =	0.164808347		
quant report		Conc (ug/m3) =	0.229867522	
		lab report		

Field Dups

Parameter	IA-004-Gallery	IA-004-Gallery DUP	RPD
1,1,1-Trichloroethane	0.097	0.11	-12.5603865
1,1,2-Trichloro-1,2,2-Trifluoroethane (I0.54		0.53	1.869158879
1,2,4-Trimethylbenzene	1.3	1.9	-37.5
1,3,5-Trimethylbenzene	0.27	0.53	-65

2-Butanone	1.9	1.7	11.11111111
2-Hexanone	0.31	0.28	10.16949153
2-Propanol	3.7	4.1	-10.2564103
4-Ethyltoluene	0.41	0.49	-17.7777778
4-Methyl-2-pentanone	0.14	0.17	-19.3548387
Acetone	21	20	4.87804878
Benzene	0.76	0.80	-5.12820513
Carbon tetrachloride	0.41	0.41	0
Chloroform	0.24	0.27	-11.7647059
Chloromethane	0.58	0.60	-3.38983051
Dichlorodifluoromethane	2.2	2.3	-4.44444444
Ethyl acetate	3.1	3.9	-22.8571429
Ethylbenzene	1.4	1.6	-13.3333333
Heptane	0.60	0.67	-11.023622
Hexane	0.45	0.48	-6.4516129
Isopropylbenzene	0.14	0.17	-19.3548387
Methylene chloride	1.9	1.9	0
Naphthalene	0.34	0.29	15.87301587
Styrene	0.12	0.22	-58.8235294
Tetrachloroethene	0.72	0.78	-8
Toluene	3.1	3.4	-9.23076923
Trichloroethene	0.23	0.27	-16
Trichlorofluoromethane	1.1	1.1	0
Xylene, o	1.6	1.9	-17.1428571
Xylenes (m&p)	4	5.0	-22.2222222

Notes:

Green = matched reported value

Red = did not match reported value

Method Path : I:\MS09\METHODS\
 Method File : R09111924.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Tue Nov 19 16:47:40 2024
 Response Via : Initial Calibration

 11/20/24

Calibration Files

0.1 =11192407.D 0.2 =11192408.D 0.5 =11192409.D 1.0 =11192410.D 5.0 =11192411.D 25 =11192412.D
 100 =11192414.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane... -----ISTD-----										
2) T Propene	1.269	1.227	1.324	1.334	1.436	1.378	1.330	1.383	1.335	4.96
3) T Dichlorodifluo...	2.341	2.401	2.486	2.493	2.475	2.507	2.383	2.463	2.444	2.47
4) T Chloromethane	1.699	1.833	1.917	1.956	1.830	1.956	1.777	1.549	1.815	7.68
5) T 1,2-Dichloro-1...	1.061	1.135	1.141	1.174	1.162	1.171	1.174	1.236	1.157	4.26
6) T Vinyl Chloride	1.121	1.259	1.326	1.383	1.443	1.446	1.559	1.633	1.396	11.71
7) T 1,3-Butadiene	0.712	0.843	0.852	0.879	0.928	0.967	1.001	1.182	0.920	14.95
8) T Bromomethane	0.818	0.969	0.978	1.004	0.723	1.005	0.757	0.792	0.881	13.57
9) T Chloroethane	0.558	0.715	0.744	0.756	0.742	0.773	0.789	0.803	0.735	10.45
10) T Ethanol	0.808	0.791	0.952	0.979	0.992	0.974	0.973	0.927	0.925	8.64
11) T Acetonitrile			2.037	2.201	2.294	2.277	2.679	2.781	2.378	12.15
12) T Acrolein	0.629	0.722	0.734	0.782	0.844	0.859	0.876	0.877	0.790	11.35
13) T Acetone	0.818	0.858	0.847	0.860	0.858	0.835	0.838	0.819	0.842	2.04
14) T Trichlorofluor...	2.155	2.235	2.262	2.316	2.304	2.328	2.327	2.405	2.292	3.25
15) T 2-Propanol (Is...	2.149	3.047	3.104	3.230	3.112	3.301	3.188	2.982	3.014	12.08
16) T Acrylonitrile	1.080	1.352	1.407	1.513	1.653	1.664	1.656	1.688	1.502	14.17
17) T 1,1-Dichloroet...	0.968	0.979	1.005	1.041	1.054	1.107	1.114	1.158	1.053	6.52
18) T 2-Methyl-2-Pro...	2.491	2.709	2.861	2.929	2.111	2.656	2.134	1.429	2.415	20.75
19) T Methylene Chlo...	1.107	1.210	1.181	1.164	1.175	1.209	1.200	1.230	1.184	3.21
20) T 3-Chloro-1-pro...	1.840	2.071	2.111	2.088	1.991	1.933	1.887	1.800	1.965	6.03
21) T Trichlorotrifl...	1.002	1.031	0.993	1.026	1.033	1.061	1.042	1.082	1.034	2.80
22) T Carbon Disulfide	3.363	3.563	3.760	3.923	4.009	4.070	3.953	3.819	3.808	6.31
23) T trans-1,2-Dich...	1.248	1.459	1.509	1.599	1.713	1.788	1.794	1.834	1.618	12.59
24) T 1,1-Dichloroet...	1.835	1.964	1.950	1.997	2.049	2.091	2.080	2.100	2.008	4.52
25) T Methyl tert-Bu...	2.564	2.842	2.964	3.143	3.146	3.333	3.194	2.708	2.987	8.86
26) T Vinyl Acetate	0.124	0.169	0.172	0.197	0.231	0.245	0.245	0.247	0.204	22.46
27) T 2-Butanone (MEK)	0.495	0.623	0.652	0.678	0.716	0.747	0.745	0.753	0.676	12.95
28) T cis-1,2-Dichlo...	1.346	1.428	1.526	1.571	1.626	1.694	1.693	1.727	1.576	8.66
29) T Diisopropyl Ether	0.743	0.911	0.833	0.861	0.875	0.877	0.858	0.850	0.851	5.77
30) T Ethyl Acetate	0.295	0.368	0.419	0.436	0.471	0.469	0.449	0.432	0.417	14.14
31) T n-Hexane	1.804	1.911	1.962	1.962	1.986	1.920	1.802	1.676	1.878	5.72
32) T Chloroform	1.753	1.976	2.042	2.046	2.076	2.115	2.113	2.158	2.035	6.23
33) S 1,2-Dichloroet...	1.673	1.678	1.686	1.670	1.678	1.687	1.735	1.818	1.703	2.98
34) T Tetrahydrofura...	0.514	0.547	0.612	0.644	0.676	0.702	0.700	0.705	0.638	11.58
35) T Ethyl tert-But...	1.007	1.107	1.194	1.238	1.270	1.339	1.339	1.357	1.231	10.09
36) T 1,2-Dichloroet...	1.509	1.618	1.722	1.729	1.742	1.810	1.806	1.852	1.724	6.51
37) IR 1,4-Difluorobenzen... -----ISTD-----										
38) T 1,1,1-Trichlor...	0.388	0.403	0.430	0.436	0.446	0.463	0.450	0.445	0.433	5.83
39) T Isopropyl Acetate									0.000	-1.00
40) T 1-Butanol									0.000	-1.00
41) T Benzene	1.022	1.046	0.996	0.999	1.009	1.019	0.982	0.953	1.003	2.79
42) T Carbon Tetrach...	0.346	0.380	0.392	0.397	0.416	0.437	0.424	0.419	0.401	7.22
43) T Cyclohexane	0.308	0.341	0.351	0.357	0.370	0.375	0.357	0.341	0.350	5.94
44) T tert-Amyl Meth...	0.555	0.599	0.626	0.646	0.689	0.720	0.691	0.662	0.648	8.34
45) T 1,2-Dichloropr...	0.206	0.238	0.246	0.250	0.257	0.262	0.254	0.246	0.245	7.07
46) T Bromodichlorom...	0.279	0.330	0.337	0.341	0.365	0.384	0.375	0.370	0.347	9.78
47) T Trichloroethene	0.274	0.285	0.278	0.283	0.291	0.301	0.291	0.284	0.286	2.94
48) T 1,4-Dioxane	0.115	0.146	0.168	0.171	0.191	0.206	0.200	0.192	0.174	17.67
49) T 2,2,4-Trimethy...	0.952	0.984	1.055	1.088	1.115	1.123	1.072	1.009	1.050	5.94
50) T Methyl Methacr...	0.058	0.075	0.081	0.093	0.104	0.109	0.107	0.104	0.092	20.12
51) T n-Heptane	0.187	0.210	0.224	0.228	0.243	0.241	0.233	0.225	0.224	8.12
52) T cis-1,3-Dichlo...	0.294	0.338	0.359	0.363	0.370	0.470	0.461	0.453	0.400	16.43
53) T 4-Methyl-2-pen...	0.144	0.184	0.206	0.222	0.245	0.256	0.243	0.226	0.216	17.25
54) T trans-1,3-Dich...			0.277	0.307	0.366	0.410	0.406	0.405	0.362	15.79

Primary Source Standards Concentrations (Working & Initial Calibration)

11/22/24

1ng/L Std. ID:
4ng/L Std. ID:
20ng/L Std. ID:

S37-11182404
S37-11182403

40ng/L Std. ID:
200ng/L Std. ID:
1000ng/L Std. ID:

S37-11182402

Compounds	Dilution Factors:							Working STD Conc.(ng/L):	Injection (L):								
	Source Std. mg/m ³	1000ng/L	Primary Working Standards						ICAL Points:	4	4	20	20	20	200	200	200
			200ng/L	40ng/L	20ng/L	4ng/L	1ng/L			0.025	0.050	0.0250	0.050	0.25	0.125	0.25	0.50
Propene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105		
Dichlorodifluoromethane	1.01	1010	202	40.4	20.2	4.04	1.01	0.101	0.202	0.505	1.01	5.05	25.25	50.5	101		
Chloromethane	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Freon-114	1.08	1080	216	43.2	21.6	4.32	1.08	0.108	0.216	0.540	1.08	5.40	27.00	54.0	108		
Vinyl Chloride	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
1,3-Butadiene	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Bromomethane	1.02	1020	204	40.8	20.4	4.08	1.02	0.102	0.204	0.510	1.02	5.10	25.50	51.0	102		
Chloroethane	1.10	1100	220	44.0	22.0	4.40	1.10	0.110	0.220	0.550	1.10	5.50	27.50	55.0	110		
Ethanol	5.25	5250	1050	210.0	105.0	21.00	5.25	0.525	1.050	2.625	5.25	26.25	131.25	262.5	525		
Acetonitrile	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103		
Acrolein	2.18	2180	436	87.2	43.6	8.72	2.18	0.218	0.436	1.090	2.18	10.90	54.50	109.0	218		
Acetone	5.12	5120	1024	204.8	102.4	20.48	5.12	0.512	1.024	2.560	5.12	25.60	128.00	256.0	512		
Trichlorofluoromethane	1.01	1010	202	40.4	20.2	4.04	1.01	0.101	0.202	0.505	1.01	5.05	25.25	50.5	101		
Isopropanol	2.06	2060	412	82.4	41.2	8.24	2.06	0.206	0.412	1.030	2.06	10.30	51.50	103.0	206		
Acrylonitrile	2.08	2080	416	83.2	41.6	8.32	2.08	0.208	0.416	1.040	2.08	10.40	52.00	104.0	208		
1,1-Dichloroethene	0.91	910	182	36.4	18.2	3.64	0.91	0.091	0.182	0.455	0.91	4.55	22.75	45.5	91		
tert-Butanol	2.09	2090	418	83.6	41.8	8.36	2.09	0.209	0.418	1.045	2.09	10.45	52.25	104.5	209		
Methylene Chloride	0.91	910	182	36.4	18.2	3.64	0.91	0.091	0.182	0.455	0.91	4.55	22.75	45.5	91		
Allyl Chloride	1.09	1090	218	43.6	21.8	4.36	1.09	0.109	0.218	0.545	1.09	5.45	27.25	54.5	109		
Trichlorotrifluoroethane	0.92	920	184	36.8	18.4	3.68	0.92	0.092	0.184	0.460	0.92	4.60	23.00	46.0	92		
Carbon Disulfide	2.07	2070	414	82.8	41.4	8.28	2.07	0.207	0.414	1.035	2.07	10.35	51.75	103.5	207		
trans-1,2-Dichloroethene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105		
1,1-Dichloroethane	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103		
Methyl tert-Butyl Ether	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Vinyl Acetate	5.29	5290	1058	211.6	105.8	21.16	5.29	0.529	1.058	2.645	5.29	26.45	132.25	264.5	529		
2-Butanone	2.04	2040	408	81.6	40.8	8.16	2.04	0.204	0.408	1.020	2.04	10.20	51.00	102.0	204		
cis-1,2-Dichloroethene	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103		
Diisopropyl Ether	2.09	2090	418	83.6	41.8	8.36	2.09	0.209	0.418	1.045	2.09	10.45	52.25	104.5	209		
Ethyl Acetate	1.95	1950	390	78.0	39.0	7.80	1.95	0.195	0.390	0.975	1.95	9.75	48.75	97.5	195		
n-Hexane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104		
Chloroform	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Tetrahydrofuran	1.90	1900	380	76.0	38.0	7.60	1.90	0.190	0.380	0.950	1.90	9.50	47.50	95.0	190		
Ethyl tert-Butyl Ether	2.09	2090	418	83.6	41.8	8.36	2.09	0.209	0.418	1.045	2.09	10.45	52.25	104.5	209		
1,2-Dichloroethane	1.01	1010	202	40.4	20.2	4.04	1.01	0.101	0.202	0.505	1.01	5.05	25.25	50.5	101		
1,1,1-Trichloroethane	1.03	1030	206	41.2	20.6	4.12	1.03	0.103	0.206	0.515	1.03	5.15	25.75	51.5	103		
Benzene	1.02	1020	204	40.8	20.4	4.08	1.02	0.102	0.204	0.510	1.02	5.10	25.50	51.0	102		
Carbon Tetrachloride	1.02	1020	204	40.8	20.4	4.08	1.02	0.102	0.204	0.510	1.02	5.10	25.50	51.0	102		
Cyclohexane	2.08	2080	416	83.2	41.6	8.32	2.08	0.208	0.416	1.040	2.08	10.40	52.00	104.0	208		
tert-Amyl Methyl Ether	2.10	2100	420	84.0	42.0	8.40	2.10	0.210	0.420	1.050	2.10	10.50	52.50	105.0	210		
1,2-Dichloropropane	1.07	1070	214	42.8	21.4	4.28	1.07	0.107	0.214	0.535	1.07	5.35	26.75	53.5	107		
Bromodichloromethane	1.07	1070	214	42.8	21.4	4.28	1.07	0.107	0.214	0.535	1.07	5.35	26.75	53.5	107		
Trichloroethene	1.05	1050	210	42.0	21.0	4.20	1.05	0.105	0.210	0.525	1.05	5.25	26.25	52.5	105		
1,4-Dioxane	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Isooctane	1.06	1060	212	42.4	21.2	4.24	1.06	0.106	0.212	0.530	1.06	5.30	26.50	53.0	106		
Methyl Methacrylate	2.12	2120	424	84.8	42.4	8.48	2.12	0.212	0.424	1.060	2.12	10.60	53.00	106.0	212		
n-Heptane	1.04	1040	208	41.6	20.8	4.16	1.04	0.104	0.208	0.520	1.04	5.20	26.00	52.0	104		

Data File : I:\MS09\DATA\2024 11\19\11192411.D
 Acq On : 19 Nov 2024 14:45
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S37-11192401/S37-11182403 (12/18)

Vial: 6
 Operator: SC
 Inst : MS09

Quant Time: Nov 19 15:49:54 2024

11/19/24

Quant Method : I:\MS09\METHODS\R09111924.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Tue Nov 19 15:47:27 2024

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.25	130	141459	12.500	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	9.32	114	623155	12.500	ng	-0.02
56) Chlorobenzene-d5 (IS3)	14.84	54	118768	12.500	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.01	65	237405	11.881	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery =	95.04%		
57) Toluene-d8 (SS2)	12.43	98	657303	12.528	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery =	100.24%		
73) Bromofluorobenzene (SS3)	16.83	174	227479	13.794	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery =	110.32%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.28	42	85315	4.203	ng	99
3) Dichlorodifluoromethan...	3.36	85	141425	4.518	ng	100
4) Chloromethane	3.49	50	109745	4.242	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	3.60	135	71026	5.138	ng	99
6) Vinyl Chloride	3.68	62	86547	4.076	ng	100
7) 1,3-Butadiene	3.80	54	55673	4.117	ng	98
8) Bromomethane	4.01	94	41708	3.461	ng	99
9) Chloroethane	4.15	64	46192	4.335	ng	99
10) Ethanol	4.32	45	294723	20.782	ng	100
11) Acetonitrile	4.45	41	133690	3.853	ng	99
12) Acrolein	4.53	56	104145	9.523	ng	99
13) Acetone	4.63	58	248531	21.595	ng	99
14) Trichlorofluoromethane	4.76	101	131699	4.695	ng	100
15) 2-Propanol (Isopropanol)	4.87	45	362742	8.373	ng	94
16) Acrylonitrile	5.01	53	194528	9.163	ng	100
17) 1,1-Dichloroethene	5.26	96	54292	3.954	ng	98
18) 2-Methyl-2-Propanol (t...	5.34	59	249680	8.348	ng	95
19) Methylene Chloride	5.36	84	60511	3.980	ng	98
20) 3-Chloro-1-propene (Al...	5.45	41	122798	4.285	ng	95
21) Trichlorotrifluoroethane	5.58	151	53749	4.331	ng	99
22) Carbon Disulfide	5.60	76	469577	8.753	ng	99
23) trans-1,2-Dichloroethene	6.14	61	101777	4.654	ng	99
24) 1,1-Dichloroethane	6.33	63	119425	4.386	ng	99
25) Methyl tert-Butyl Ether	6.37	73	188675	4.927	ng	100
26) Vinyl Acetate	6.45	86	69164	24.274	ng	# 92
27) 2-Butanone (MEK)	6.67	72	82683	8.880	ng	# 92
28) cis-1,2-Dichloroethene	7.09	61	94791	4.538	ng	100
29) Diisopropyl Ether	7.29	87	103430	9.364	ng	# 92
30) Ethyl Acetate	7.29	61	51927	9.360	ng	98
31) n-Hexane	7.30	57	116864	4.632	ng	100
32) Chloroform	7.38	83	124491	5.043	ng	99
34) Tetrahydrofuran (THF)	7.75	72	72672	8.254	ng	97
35) Ethyl tert-Butyl Ether	7.83	87	150145	9.366	ng	97
36) 1,2-Dichloroethane	8.13	62	99543	4.610	ng	99
38) 1,1,1-Trichloroethane	8.41	97	114542	5.030	ng	99
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.83	56	526	No Calib	#	
41) Benzene	8.91	78	256588	4.259	ng	99
42) Carbon Tetrachloride	9.08	117	105735	4.914	ng	100
43) Cyclohexane	9.22	84	191687	9.215	ng	99
44) tert-Amyl Methyl Ether	9.60	73	360412	9.513	ng	99
45) 1,2-Dichloropropane	9.87	63	68553	4.494	ng	99
46) Bromodichloromethane	10.09	83	97256	5.087	ng	100
47) Trichloroethene	10.16	130	76262	5.008	ng	99
48) 1,4-Dioxane	10.12	88	50460	4.941	ng	99
49) 2,2,4-Trimethylpentane...	10.24	57	294701	4.613	ng	100
50) Methyl Methacrylate	10.41	100	55215	10.979	ng	100

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: WSP USA
Client Sample ID: IA-004-Gallery
Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653
 ALS Sample ID: P2404653-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS01704

Date Collected: 11/11/24
 Date Received: 11/15/24
 Date Analyzed: 12/3/24
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.35 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	3.1	2.7	0.39	0.87	0.75	0.11	
110-54-3	n-Hexane	0.45	0.72	0.15	0.13	0.21	0.043	J
67-66-3	Chloroform	0.24	0.15	0.099	0.050	0.030	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.093	ND	0.47	0.032	
107-06-2	1,2-Dichloroethane	ND	0.14	0.082	ND	0.035	0.020	
71-55-6	1,1,1-Trichloroethane	0.097	0.14	0.092	0.018	0.026	0.017	J
71-43-2	Benzene	0.76	0.14	0.11	0.24	0.044	0.034	
56-23-5	Carbon Tetrachloride	0.41	0.14	0.10	0.066	0.023	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.061	
78-87-5	1,2-Dichloropropane	ND	0.15	0.092	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.23	0.15	0.10	0.043	0.027	0.019	
123-91-1	1,4-Dioxane	ND	0.74	0.088	ND	0.20	0.024	
142-82-5	n-Heptane	0.60	0.72	0.12	0.15	0.18	0.029	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.12	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	0.14	1.5	0.10	0.035	0.36	0.025	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	0.15	ND	0.15	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	3.1	0.76	0.090	0.82	0.20	0.024	
591-78-6	2-Hexanone	0.31	1.4	0.092	0.075	0.35	0.022	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Data File : I:\MS09\DATA\2024 12\03\12032427.D
 Acq On : 3 Dec 2024 19:51
 Sample : P2404653-001 (1000mL)
 Misc : S37-11192401

Vial: 12
 Operator: SC
 Inst : MS09

Quant Time: Dec 04 09:38:35 2024

 12/4/24

Quant Method : I:\MS09\METHODS\R09111924.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Sun Nov 24 11:14:44 2024

Response via : Initial Calibration

DataAcq Meth:TO15.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	7.23	130	144460	12.500	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	9.30	114	634623	12.500	ng	0.00
56) Chlorobenzene-d5 (IS3)	14.84	54	118623	12.500	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	8.00	65	236198	12.001	ng	0.00
Spiked Amount	12.500	Range 70 - 130	Recovery	=	96.00%	
57) Toluene-d8 (SS2)	12.43	98	672912	12.787	ng	-0.03
Spiked Amount	12.500	Range 70 - 130	Recovery	=	102.32%	
73) Bromofluorobenzene (SS3)	16.82	174	234236	12.899	ng	-0.01
Spiked Amount	12.500	Range 70 - 130	Recovery	=	103.20%	

Target Compounds

						Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	3.36	85	45673	1.617	ng	100
4) Chloromethane	3.51	50	8675	0.414	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	3.62	135	1099	0.082	ng	81
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	3.78	54	184	N.D.		
8) Bromomethane	4.03	94	115	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	4.30	45	179884	16.835	ng	95
11) Acetonitrile	4.44	41	19105	0.695	ng	90
12) Acrolein	4.53	56	6001	0.657	ng	99
13) Acetone	4.62	58	146388	15.050	ng	97
14) Trichlorofluoromethane	4.76	101	21581	0.815	ng	99
15) 2-Propanol (Isopropanol)	4.86	45	92802	2.664	ng	90
16) Acrylonitrile	5.00	53	2893	0.167	ng	# 75
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	0.00	59	0	N.D.	d	
19) Methylene Chloride	5.35	84	18317	1.338	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	5.59	151	4632	0.388	ng	97
22) Carbon Disulfide	0.00	76	0	N.D.	d	
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	6.67	72	10945	1.401	ng	93
28) cis-1,2-Dichloroethene	7.08	61	978	0.054	ng	95
29) Diisopropyl Ether	7.29	87	110	N.D.		
30) Ethyl Acetate	7.29	61	10916	2.263	ng	98
31) n-Hexane	7.30	57	6974	0.321	ng	95
32) Chloroform	7.36	83	4122	0.175	ng	99
34) Tetrahydrofuran (THF)	7.75	72	178	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	8.11	62	754	N.D.		
38) 1,1,1-Trichloroethane	8.40	97	1532	0.070	ng	95
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	8.81	56	208865	No Calib	#	
41) Benzene	8.89	78	27963	0.549	ng	99
42) Carbon Tetrachloride	9.07	117	6056	0.297	ng	98
43) Cyclohexane	9.22	84	1750	0.098	ng	# 81
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	10.08	83	350	N.D.		
47) Trichloroethene	10.14	130	2392	0.165	ng	92
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.	d	
50) Methyl Methacrylate	0.00	100	0	N.D.		

ATTACHMENT 3

LABORATORY ANALYTICAL DATA SHEETS

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-001

Test Code: EPA TO-15

Date Collected: 11/11/24

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 11/15/24

Analyst: Simon Cao

Date Analyzed: 12/3/24

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01704

Initial Pressure (psig): -1.35 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.39

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.73	0.18	ND	0.42	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.70	0.12	0.45	0.14	0.024	
74-87-3	Chloromethane	0.58	0.29	0.12	0.28	0.14	0.058	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	0.12	ND	0.11	0.017	
75-01-4	Vinyl Chloride	ND	0.29	0.079	ND	0.11	0.031	
106-99-0	1,3-Butadiene	ND	0.29	0.12	ND	0.13	0.055	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.076	0.027	
75-00-3	Chloroethane	ND	0.31	0.092	ND	0.12	0.035	
67-64-1	Acetone	21	7.1	1.7	8.8	3.0	0.70	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.70	0.11	0.20	0.12	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.7	1.4	0.31	1.5	0.58	0.12	
75-35-4	1,1-Dichloroethene	ND	0.13	0.10	ND	0.032	0.026	
75-09-2	Methylene Chloride	1.9	0.64	0.21	0.54	0.18	0.060	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.54	0.64	0.11	0.070	0.083	0.014	J
75-15-0	Carbon Disulfide	ND	1.4	0.22	ND	0.46	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.29	0.10	ND	0.074	0.026	
75-34-3	1,1-Dichloroethane	ND	0.29	0.11	ND	0.072	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.74	0.088	ND	0.20	0.024	
108-05-4	Vinyl Acetate	ND	7.4	1.7	ND	2.1	0.47	
78-93-3	2-Butanone (MEK)	1.9	1.4	0.15	0.66	0.48	0.052	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.10	ND	0.035	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01704

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.35 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.39

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	ppbV	Qualifier
141-78-6	Ethyl Acetate	3.1	2.7	0.39	0.87	0.75	0.11	
110-54-3	n-Hexane	0.45	0.72	0.15	0.13	0.21	0.043	J
67-66-3	Chloroform	0.24	0.15	0.099	0.050	0.030	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.093	ND	0.47	0.032	
107-06-2	1,2-Dichloroethane	ND	0.14	0.082	ND	0.035	0.020	
71-55-6	1,1,1-Trichloroethane	0.097	0.14	0.092	0.018	0.026	0.017	J
71-43-2	Benzene	0.76	0.14	0.11	0.24	0.044	0.034	
56-23-5	Carbon Tetrachloride	0.41	0.14	0.10	0.066	0.023	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.061	
78-87-5	1,2-Dichloropropane	ND	0.15	0.092	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.23	0.15	0.10	0.043	0.027	0.019	
123-91-1	1,4-Dioxane	ND	0.74	0.088	ND	0.20	0.024	
142-82-5	n-Heptane	0.60	0.72	0.12	0.15	0.18	0.029	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.12	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	0.14	1.5	0.10	0.035	0.36	0.025	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	0.15	ND	0.15	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	3.1	0.76	0.090	0.82	0.20	0.024	
591-78-6	2-Hexanone	0.31	1.4	0.092	0.075	0.35	0.022	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01704

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.35 Final Pressure (psig): 3.92

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.14	0.097	ND	0.016	0.011	
106-93-4	1,2-Dibromoethane	ND	0.15	0.086	ND	0.019	0.011	
127-18-4	Tetrachloroethene	0.72	0.15	0.096	0.11	0.023	0.014	
108-90-7	Chlorobenzene	ND	0.75	0.099	ND	0.16	0.021	
100-41-4	Ethylbenzene	1.4	0.76	0.10	0.33	0.18	0.024	
179601-23-1	m,p-Xylenes	4.0	1.5	0.19	0.92	0.34	0.045	
75-25-2	Bromoform	ND	0.76	0.15	ND	0.074	0.015	
100-42-5	Styrene	0.12	0.74	0.12	0.028	0.17	0.028	J
95-47-6	o-Xylene	1.6	0.75	0.11	0.36	0.17	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	0.14	0.73	0.11	0.029	0.15	0.022	J
622-96-8	4-Ethyltoluene	0.41	0.72	0.12	0.084	0.15	0.024	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.75	0.11	0.055	0.15	0.022	J
95-63-6	1,2,4-Trimethylbenzene	1.3	0.73	0.10	0.26	0.15	0.021	
100-44-7	Benzyl Chloride	ND	3.0	0.17	ND	0.58	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.74	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
91-20-3	Naphthalene	0.34	0.76	0.18	0.064	0.14	0.034	J
87-68-3	Hexachlorobutadiene	ND	0.73	0.15	ND	0.068	0.014	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery DUP

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01314

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.38 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.38

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.72	0.18	ND	0.42	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.70	0.12	0.47	0.14	0.024	
74-87-3	Chloromethane	0.60	0.29	0.12	0.29	0.14	0.057	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.13	0.75	0.12	0.018	0.11	0.017	J
75-01-4	Vinyl Chloride	ND	0.29	0.079	ND	0.11	0.031	
106-99-0	1,3-Butadiene	ND	0.29	0.12	ND	0.13	0.055	
74-83-9	Bromomethane	ND	0.29	0.10	ND	0.075	0.026	
75-00-3	Chloroethane	ND	0.30	0.091	ND	0.12	0.035	
67-64-1	Acetone	20	7.1	1.7	8.3	3.0	0.70	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.70	0.11	0.20	0.12	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.1	1.4	0.30	1.7	0.58	0.12	
75-35-4	1,1-Dichloroethene	ND	0.12	0.10	ND	0.031	0.026	
75-09-2	Methylene Chloride	1.9	0.63	0.21	0.54	0.18	0.060	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.53	0.63	0.10	0.069	0.083	0.014	J
75-15-0	Carbon Disulfide	0.39	1.4	0.22	0.12	0.46	0.071	J
156-60-5	trans-1,2-Dichloroethene	ND	0.29	0.10	ND	0.073	0.026	
75-34-3	1,1-Dichloroethane	ND	0.29	0.11	ND	0.072	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.73	0.087	ND	0.20	0.024	
108-05-4	Vinyl Acetate	ND	7.3	1.7	ND	2.1	0.47	
78-93-3	2-Butanone (MEK)	1.7	1.4	0.15	0.57	0.48	0.051	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.10	ND	0.035	0.026	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery DUP

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01314

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.38 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	3.9	2.7	0.39	1.1	0.75	0.11	
110-54-3	n-Hexane	0.48	0.72	0.15	0.14	0.20	0.043	J
67-66-3	Chloroform	0.27	0.15	0.098	0.055	0.030	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.092	ND	0.47	0.031	
107-06-2	1,2-Dichloroethane	ND	0.14	0.081	ND	0.034	0.020	
71-55-6	1,1,1-Trichloroethane	0.11	0.14	0.091	0.019	0.026	0.017	J
71-43-2	Benzene	0.80	0.14	0.11	0.25	0.044	0.033	
56-23-5	Carbon Tetrachloride	0.41	0.14	0.10	0.066	0.022	0.016	
110-82-7	Cyclohexane	ND	1.4	0.21	ND	0.42	0.060	
78-87-5	1,2-Dichloropropane	ND	0.15	0.091	ND	0.033	0.020	
75-27-4	Bromodichloromethane	ND	0.15	0.11	ND	0.023	0.016	
79-01-6	Trichloroethene	0.27	0.14	0.099	0.050	0.027	0.018	
123-91-1	1,4-Dioxane	0.19	0.73	0.087	0.053	0.20	0.024	J
142-82-5	n-Heptane	0.67	0.72	0.12	0.16	0.18	0.029	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.11	ND	0.16	0.025	
108-10-1	4-Methyl-2-pentanone	0.17	1.4	0.10	0.041	0.35	0.025	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.68	0.15	ND	0.15	0.033	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.028	0.014	
108-88-3	Toluene	3.4	0.75	0.090	0.90	0.20	0.024	
591-78-6	2-Hexanone	0.28	1.4	0.091	0.068	0.35	0.022	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: WSP USA

Client Sample ID: IA-004-Gallery DUP

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01314

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.38 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.14	0.097	ND	0.016	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.086	ND	0.019	0.011	
127-18-4	Tetrachloroethene	0.78	0.15	0.095	0.11	0.022	0.014	
108-90-7	Chlorobenzene	ND	0.75	0.098	ND	0.16	0.021	
100-41-4	Ethylbenzene	1.6	0.76	0.10	0.36	0.17	0.024	
179601-23-1	m,p-Xylenes	5.0	1.5	0.19	1.2	0.34	0.044	
75-25-2	Bromoform	ND	0.76	0.15	ND	0.073	0.015	
100-42-5	Styrene	0.22	0.73	0.12	0.052	0.17	0.028	J
95-47-6	o-Xylene	1.9	0.75	0.11	0.43	0.17	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.10	ND	0.022	0.015	
98-82-8	Cumene	0.17	0.72	0.11	0.035	0.15	0.022	J
622-96-8	4-Ethyltoluene	0.49	0.72	0.12	0.099	0.15	0.024	J
108-67-8	1,3,5-Trimethylbenzene	0.53	0.75	0.11	0.11	0.15	0.022	J
95-63-6	1,2,4-Trimethylbenzene	1.9	0.72	0.10	0.38	0.15	0.021	
100-44-7	Benzyl Chloride	ND	3.0	0.17	ND	0.57	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.72	0.11	ND	0.12	0.018	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.18	ND	0.20	0.024	
91-20-3	Naphthalene	0.29	0.75	0.18	0.055	0.14	0.034	J
87-68-3	Hexachlorobutadiene	ND	0.72	0.15	ND	0.068	0.014	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: WSP USA

Client Sample ID: AA-004-1

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02326

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.76 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.32

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.69	0.17	ND	0.40	0.10	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.67	0.11	0.46	0.13	0.023	
74-87-3	Chloromethane	0.35	0.28	0.11	0.17	0.13	0.055	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.11	0.71	0.11	0.016	0.10	0.016	J
75-01-4	Vinyl Chloride	ND	0.28	0.075	ND	0.11	0.029	
106-99-0	1,3-Butadiene	ND	0.28	0.12	ND	0.13	0.053	
74-83-9	Bromomethane	ND	0.28	0.098	ND	0.072	0.025	
75-00-3	Chloroethane	ND	0.29	0.087	ND	0.11	0.033	
67-64-1	Acetone	5.8	6.8	1.6	2.4	2.8	0.67	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.67	0.11	0.20	0.12	0.019	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.3	1.4	0.29	0.95	0.55	0.12	
75-35-4	1,1-Dichloroethene	ND	0.12	0.098	ND	0.030	0.025	
75-09-2	Methylene Chloride	0.47	0.61	0.20	0.13	0.17	0.057	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.53	0.61	0.10	0.070	0.079	0.013	J
75-15-0	Carbon Disulfide	ND	1.4	0.21	ND	0.44	0.068	
156-60-5	trans-1,2-Dichloroethene	ND	0.28	0.098	ND	0.070	0.025	
75-34-3	1,1-Dichloroethane	ND	0.28	0.10	ND	0.069	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.70	0.083	ND	0.19	0.023	
108-05-4	Vinyl Acetate	ND	7.0	1.6	ND	2.0	0.45	
78-93-3	2-Butanone (MEK)	0.76	1.3	0.15	0.26	0.46	0.049	J
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.099	ND	0.033	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: WSP USA

Client Sample ID: AA-004-1

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02326

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.76 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.32

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	ppbV	Qualifier
141-78-6	Ethyl Acetate	6.1	2.6	0.37	1.7	0.71	0.10	
110-54-3	n-Hexane	0.50	0.69	0.15	0.14	0.19	0.041	J
67-66-3	Chloroform	0.10	0.14	0.094	0.021	0.029	0.019	J
109-99-9	Tetrahydrofuran (THF)	ND	1.3	0.088	ND	0.45	0.030	
107-06-2	1,2-Dichloroethane	ND	0.13	0.078	ND	0.033	0.019	
71-55-6	1,1,1-Trichloroethane	ND	0.14	0.087	ND	0.025	0.016	
71-43-2	Benzene	0.43	0.13	0.10	0.14	0.042	0.032	
56-23-5	Carbon Tetrachloride	0.42	0.13	0.098	0.067	0.021	0.016	
110-82-7	Cyclohexane	ND	1.4	0.20	ND	0.40	0.058	
78-87-5	1,2-Dichloropropane	ND	0.15	0.087	ND	0.031	0.019	
75-27-4	Bromodichloromethane	ND	0.15	0.10	ND	0.022	0.015	
79-01-6	Trichloroethene	ND	0.14	0.095	ND	0.026	0.018	
123-91-1	1,4-Dioxane	ND	0.70	0.083	ND	0.19	0.023	
142-82-5	n-Heptane	0.51	0.69	0.11	0.12	0.17	0.027	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.70	0.11	ND	0.15	0.024	
108-10-1	4-Methyl-2-pentanone	0.27	1.4	0.096	0.066	0.34	0.024	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.65	0.15	ND	0.14	0.032	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.071	ND	0.027	0.013	
108-88-3	Toluene	1.4	0.72	0.086	0.38	0.19	0.023	
591-78-6	2-Hexanone	0.11	1.4	0.087	0.026	0.34	0.021	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: WSP USA

Client Sample ID: AA-004-1

Client Project ID: Scobell Chemical Project / US-E1-3616216143.02

ALS Project ID: P2404653

ALS Sample ID: P2404653-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 6.0 L Summa Canister

Test Notes:

Container ID: AC02326

Date Collected: 11/11/24

Date Received: 11/15/24

Date Analyzed: 12/3/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.76 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.32

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.13	0.092	ND	0.016	0.011	
106-93-4	1,2-Dibromoethane	ND	0.14	0.082	ND	0.018	0.011	
127-18-4	Tetrachloroethene	ND	0.15	0.091	ND	0.021	0.013	
108-90-7	Chlorobenzene	ND	0.71	0.094	ND	0.15	0.020	
100-41-4	Ethylbenzene	0.16	0.73	0.099	0.036	0.17	0.023	J
179601-23-1	m,p-Xylenes	0.43	1.4	0.18	0.099	0.33	0.043	J
75-25-2	Bromoform	ND	0.73	0.15	ND	0.070	0.014	
100-42-5	Styrene	ND	0.70	0.11	ND	0.16	0.027	
95-47-6	o-Xylene	0.18	0.71	0.10	0.042	0.16	0.023	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	0.098	ND	0.021	0.014	
98-82-8	Cumene	ND	0.69	0.10	ND	0.14	0.021	
622-96-8	4-Ethyltoluene	ND	0.69	0.11	ND	0.14	0.023	
108-67-8	1,3,5-Trimethylbenzene	ND	0.71	0.10	ND	0.15	0.021	
95-63-6	1,2,4-Trimethylbenzene	0.12	0.69	0.098	0.025	0.14	0.020	J
100-44-7	Benzyl Chloride	ND	2.8	0.16	ND	0.55	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.70	0.11	ND	0.12	0.018	
106-46-7	1,4-Dichlorobenzene	ND	0.69	0.11	ND	0.12	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.69	0.10	ND	0.11	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.17	ND	0.19	0.023	
91-20-3	Naphthalene	ND	0.72	0.17	ND	0.14	0.033	
87-68-3	Hexachlorobutadiene	ND	0.69	0.15	ND	0.065	0.014	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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