

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (**check one**):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: _____

ATTN DNR: **R & R Program Associate** Date DNR Notified:

1. Discharge Reported By		
Name Brian Schneider	Firm GRAEF	Phone Number (include area code) (414) 259-1500
Mailing Address 275 West Wisconsin Avenue, Suite 300, Milwaukee, WI, 53203		Email brian.schneider@grafe-usa.com

2. Site Information
Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. Spic and Span, Inc. (former)
Location: Include street address, <u>not PO Box</u> . If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 4301 North Richards Street, Glendale / Milwaukee, WI, 53212
Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city. Glendale / Milwaukee
County Milwaukee
Legal Description: NE ¼ of SE ¼ Section 5, Town 07 N, Range 22 <input checked="" type="radio"/> E <input type="radio"/> W
WTM: X 2,264,582 Y 000000

3. Responsible Party (RP) and/or RP Representative
Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary. Spic and Span, Inc. (former)
<input type="checkbox"/> A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055 ; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237 .
Contact Person Name (if different) Robert Miller
Phone Number (414) 378-5522
Email rmiller@spicandspan.com
Mailing Address 4301 North Richards Street
City Milwaukee
State WI
ZIP Code 53212

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary. Spic and Span, Inc.			
Contact Person Name (if different) Robert Miller	Phone Number (414) 378-5522	Email rmiller@spicandspan.com	
Mailing Address 108 W. Miller Drive	City Mequon	State WI	ZIP Code 53092

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Brian Schneider GRAEF

Form 4400-225 (R 02/20)

Page 2 of 2

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|---|--|---|
| <input type="checkbox"/> VOCs
<input checked="" type="checkbox"/> PCE
<input checked="" type="checkbox"/> TCE
<input type="checkbox"/> Other Chlorinated
<input type="checkbox"/> Diesel
<input type="checkbox"/> Fuel Oil
<input type="checkbox"/> Gasoline
<input type="checkbox"/> Hydraulic Oil
<input type="checkbox"/> Jet Fuel | <i>(VOCs continued)</i>
<input type="checkbox"/> Mineral Oil
<input type="checkbox"/> Waste Oil
<input type="checkbox"/> Petroleum-Unknown Type
<input type="checkbox"/> PAHs
<input type="checkbox"/> PCBs
<input type="checkbox"/> Cyanide
<input type="checkbox"/> Leachate
<input type="checkbox"/> Manure | <input type="checkbox"/> Metals
<input type="checkbox"/> Arsenic
<input type="checkbox"/> Chromium
<input type="checkbox"/> Lead
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Pesticides: _____
<input type="checkbox"/> Fertilizer: _____
<input type="checkbox"/> RCRA Hazardous Waste: _____
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Unknown |
|---|--|---|

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|---|--|--|
| <input type="checkbox"/> Air Contamination
<input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum)
<input type="checkbox"/> Contamination in Fractured Bedrock
<input type="checkbox"/> Contamination Within 1 Meter of Bedrock
<input type="checkbox"/> Contaminated Private Well
<input type="checkbox"/> Contaminated Public Well
<input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Fire Explosion Threat
<input type="checkbox"/> Free Product
<input type="checkbox"/> Groundwater Contamination
<input type="checkbox"/> Off-Site Contamination
<input type="checkbox"/> Sanitary Sewer Contamination
<input type="checkbox"/> Storm Sewer Contamination
<input type="checkbox"/> Sediment Contamination
Other (specify): _____ | <input type="checkbox"/> Soil Contamination
<input type="checkbox"/> Soil Gas Contamination
<input checked="" type="checkbox"/> Sub-slab Vapor Contamination
<input type="checkbox"/> Surface Water Contamination
<input type="checkbox"/> Within 100 ft of Private Well
<input type="checkbox"/> Within 1000 ft of Public Well |
|---|--|--|

Contamination was discovered as a result of:

- | | | |
|---|---|--|
| <input type="checkbox"/> Tank closure assessment
Date <input type="text"/> | <input type="checkbox"/> Site assessment
Date <input type="text"/> | <input checked="" type="checkbox"/> Other - Describe: _____
Date <input type="text"/> |
|---|---|--|

Lab results: Lab results will be faxed upon receipt Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

The contaminants are contained under a building floor slab. The contaminants were discovered as a result of subsurface vapor sampling related to a potential property transaction. A floor plan showing the locations of the sub-slab vapor samples and the laboratory analytical results are attached.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

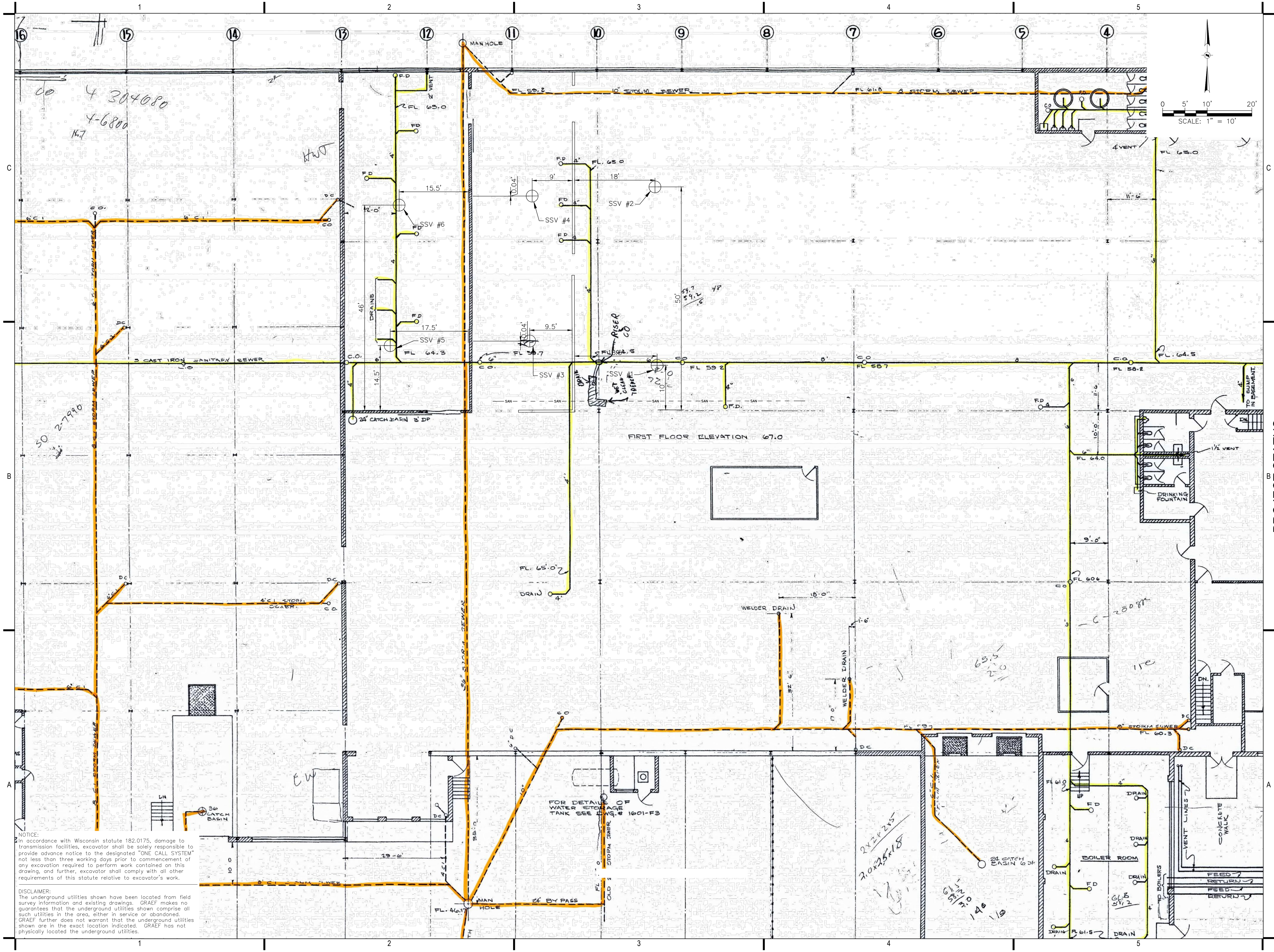
- | | Source | Cause |
|--|--|---|
| <input type="checkbox"/> Tank
<input type="checkbox"/> Piping
<input type="checkbox"/> Dispenser
<input type="checkbox"/> Submersible Turbine Pump
<input type="checkbox"/> Delivery Problem

<input type="checkbox"/> Does not apply. | <input type="checkbox"/> Tank
<input type="checkbox"/> Piping
<input type="checkbox"/> Dispenser
<input type="checkbox"/> Submersible Turbine Pump
<input type="checkbox"/> Delivery Problem

<input checked="" type="checkbox"/> Other (specify): _____ | <input type="checkbox"/> Spill
<input type="checkbox"/> Overfill
<input type="checkbox"/> Corrosion
<input type="checkbox"/> Physical or Mechanical Damage
<input type="checkbox"/> Installation Problem
<input type="checkbox"/> Other (does not fit any of above)
<input checked="" type="checkbox"/> Unknown |

Submit this completed form along with any associate lab results using the RR Program Submittal Portal, found on the DNR website at <https://dnr.wi.gov/topic/Brownfields/Submittal.html>.

If you have any questions, please contact the appropriate regional Environmental Program Associate (EPA) listed under the "EPAs" tab at <https://dnr.wi.gov/topic/Brownfields/Contact.html>.



PROJECT STATUS

NOTICE:
 In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

DISCLAIMER:
 The underground utilities shown have been located from field survey information and existing drawings. GRAEF makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. GRAEF further does not warrant that the underground utilities shown are in the exact location indicated. GRAEF has not physically located the underground utilities.

X:\ML\2019\20190153\Design Files\Civil\00C_00_C100_0153 4/2/2020 12:55 PM

ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-52203-1

Client Project/Site: Spic & Span N. Richards

For:

GRAEF

275 West Wisconsin Avenue, Suite 300
Milwaukee, Wisconsin 53203

Attn: Mr. Brian Schneider



Authorized for release by:
2/4/2020 10:33:08 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Job ID: 200-52203-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative 200-52203-1

Comments

No additional comments.

Receipt

The samples were received on 1/14/2020 10:31 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions

During the canister pressure check performed upon receipt, it was observed that the following samples were received at an elevated residual vacuum level: 200-52203-1 and 200-52203-3.

The associated flow controller for sample 1 was evaluated to be outside of the given flow range when compared to the original flow rate setting.

The associated flow controller for sample 3 was evaluated to be inside of the given flow range when compared to the original flow rate setting.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SSVS-3 (200-52203-3). The container labels list an air canister ID 11213, while the COC lists an air canister ID 112113. The container label ID was used for the login.

Air Toxics

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

Detection Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-1

Lab Sample ID: 200-52203-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	12000		100	15	ppb v/v	500		TO-15	Total/NA
Trichloroethene	270		100	15	ppb v/v	500		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	81000		680	100	ug/m3	500		TO-15	Total/NA
Trichloroethene	1400		540	81	ug/m3	500		TO-15	Total/NA

Client Sample ID: SSVS-2

Lab Sample ID: 200-52203-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.8	J	3.2	0.48	ppb v/v	15.9		TO-15	Total/NA
Tetrachloroethene	2500	E	3.2	0.48	ppb v/v	15.9		TO-15	Total/NA
Trichloroethene	110		3.2	0.48	ppb v/v	15.9		TO-15	Total/NA
Tetrachloroethene - DL	2700		16	2.4	ppb v/v	80.7		TO-15	Total/NA
Trichloroethene - DL	110		16	2.4	ppb v/v	80.7		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2	J	13	1.9	ug/m3	15.9		TO-15	Total/NA
Tetrachloroethene	17000	E	22	3.2	ug/m3	15.9		TO-15	Total/NA
Trichloroethene	570		17	2.6	ug/m3	15.9		TO-15	Total/NA
Tetrachloroethene - DL	18000		110	16	ug/m3	80.7		TO-15	Total/NA
Trichloroethene - DL	570		87	13	ug/m3	80.7		TO-15	Total/NA

Client Sample ID: SSVS-3

Lab Sample ID: 200-52203-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4	J	6.0	0.90	ppb v/v	30		TO-15	Total/NA
Tetrachloroethene	4700	E	6.0	0.90	ppb v/v	30		TO-15	Total/NA
trans-1,2-Dichloroethene	1.4	J	6.0	0.81	ppb v/v	30		TO-15	Total/NA
Trichloroethene	200		6.0	0.90	ppb v/v	30		TO-15	Total/NA
Tetrachloroethene - DL	5000		30	4.5	ppb v/v	150		TO-15	Total/NA
Trichloroethene - DL	190		30	4.5	ppb v/v	150		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13	J	24	3.6	ug/m3	30		TO-15	Total/NA
Tetrachloroethene	32000	E	41	6.1	ug/m3	30		TO-15	Total/NA
trans-1,2-Dichloroethene	5.5	J	24	3.2	ug/m3	30		TO-15	Total/NA
Trichloroethene	1100		32	4.8	ug/m3	30		TO-15	Total/NA
Tetrachloroethene - DL	34000		200	31	ug/m3	150		TO-15	Total/NA
Trichloroethene - DL	1000		160	24	ug/m3	150		TO-15	Total/NA

Client Sample ID: SSVS-4

Lab Sample ID: 200-52203-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		3.2	0.48	ppb v/v	16.1		TO-15	Total/NA
Tetrachloroethene	2300	E	3.2	0.48	ppb v/v	16.1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.58	J	3.2	0.43	ppb v/v	16.1		TO-15	Total/NA
Trichloroethene	110		3.2	0.48	ppb v/v	16.1		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	3.4	J	15	2.3	ppb v/v	77.4		TO-15	Total/NA
Tetrachloroethene - DL	2200		15	2.3	ppb v/v	77.4		TO-15	Total/NA
Trichloroethene - DL	100		15	2.3	ppb v/v	77.4		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		13	1.9	ug/m3	16.1		TO-15	Total/NA
Tetrachloroethene	16000	E	22	3.3	ug/m3	16.1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-4 (Continued)

Lab Sample ID: 200-52203-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2.3	J	13	1.7	ug/m3	16.1		TO-15	Total/NA
Trichloroethene	590		17	2.6	ug/m3	16.1		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	13	J	61	9.2	ug/m3	77.4		TO-15	Total/NA
Tetrachloroethene - DL	15000		100	16	ug/m3	77.4		TO-15	Total/NA
Trichloroethene - DL	560		83	12	ug/m3	77.4		TO-15	Total/NA

Client Sample ID: SSVS-5

Lab Sample ID: 200-52203-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13	J	17	2.5	ppb v/v	83.3		TO-15	Total/NA
Tetrachloroethene	1700		17	2.5	ppb v/v	83.3		TO-15	Total/NA
Trichloroethene	200		17	2.5	ppb v/v	83.3		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	50	J	66	9.9	ug/m3	83.3		TO-15	Total/NA
Tetrachloroethene	11000		110	17	ug/m3	83.3		TO-15	Total/NA
Trichloroethene	1100		90	13	ug/m3	83.3		TO-15	Total/NA

Client Sample ID: SSVS-6

Lab Sample ID: 200-52203-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.4	0.21	ppb v/v	7.03		TO-15	Total/NA
Tetrachloroethene	1100	E	1.4	0.21	ppb v/v	7.03		TO-15	Total/NA
trans-1,2-Dichloroethene	1.2	J	1.4	0.19	ppb v/v	7.03		TO-15	Total/NA
Trichloroethene	120		1.4	0.21	ppb v/v	7.03		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	20		6.9	1.0	ppb v/v	34.5		TO-15	Total/NA
Tetrachloroethene - DL	1100		6.9	1.0	ppb v/v	34.5		TO-15	Total/NA
Trichloroethene - DL	120		6.9	1.0	ppb v/v	34.5		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	91		5.6	0.84	ug/m3	7.03		TO-15	Total/NA
Tetrachloroethene	7600	E	9.5	1.4	ug/m3	7.03		TO-15	Total/NA
trans-1,2-Dichloroethene	4.8	J	5.6	0.75	ug/m3	7.03		TO-15	Total/NA
Trichloroethene	670		7.6	1.1	ug/m3	7.03		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	79		27	4.1	ug/m3	34.5		TO-15	Total/NA
Tetrachloroethene - DL	7500		47	7.0	ug/m3	34.5		TO-15	Total/NA
Trichloroethene - DL	640		37	5.6	ug/m3	34.5		TO-15	Total/NA

Client Sample ID: SUMMA CANISTER BLANK

Lab Sample ID: 200-52203-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.030	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.21	J	1.4	0.20	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Client Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-1

Lab Sample ID: 200-52203-1

Date Collected: 01/13/20 09:10

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<15		100	15	ppb v/v			02/01/20 07:42	500
Tetrachloroethene	12000		100	15	ppb v/v			02/01/20 07:42	500
trans-1,2-Dichloroethene	<14		100	14	ppb v/v			02/01/20 07:42	500
Trichloroethene	270		100	15	ppb v/v			02/01/20 07:42	500
Vinyl chloride	<13		100	13	ppb v/v			02/01/20 07:42	500
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<59		400	59	ug/m3			02/01/20 07:42	500
Tetrachloroethene	81000		680	100	ug/m3			02/01/20 07:42	500
trans-1,2-Dichloroethene	<54		400	54	ug/m3			02/01/20 07:42	500
Trichloroethene	1400		540	81	ug/m3			02/01/20 07:42	500
Vinyl chloride	<33		260	33	ug/m3			02/01/20 07:42	500

Client Sample ID: SSVS-2

Lab Sample ID: 200-52203-2

Date Collected: 01/13/20 10:32

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.8	J	3.2	0.48	ppb v/v			01/15/20 22:07	15.9
Tetrachloroethene	2500	E	3.2	0.48	ppb v/v			01/15/20 22:07	15.9
trans-1,2-Dichloroethene	<0.43		3.2	0.43	ppb v/v			01/15/20 22:07	15.9
Trichloroethene	110		3.2	0.48	ppb v/v			01/15/20 22:07	15.9
Vinyl chloride	<0.41		3.2	0.41	ppb v/v			01/15/20 22:07	15.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	7.2	J	13	1.9	ug/m3			01/15/20 22:07	15.9
Tetrachloroethene	17000	E	22	3.2	ug/m3			01/15/20 22:07	15.9
trans-1,2-Dichloroethene	<1.7		13	1.7	ug/m3			01/15/20 22:07	15.9
Trichloroethene	570		17	2.6	ug/m3			01/15/20 22:07	15.9
Vinyl chloride	<1.1		8.1	1.1	ug/m3			01/15/20 22:07	15.9

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<2.4		16	2.4	ppb v/v			01/15/20 22:57	80.7
Tetrachloroethene	2700		16	2.4	ppb v/v			01/15/20 22:57	80.7
trans-1,2-Dichloroethene	<2.2		16	2.2	ppb v/v			01/15/20 22:57	80.7
Trichloroethene	110		16	2.4	ppb v/v			01/15/20 22:57	80.7
Vinyl chloride	<2.1		16	2.1	ppb v/v			01/15/20 22:57	80.7
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<9.6		64	9.6	ug/m3			01/15/20 22:57	80.7
Tetrachloroethene	18000		110	16	ug/m3			01/15/20 22:57	80.7
trans-1,2-Dichloroethene	<8.6		64	8.6	ug/m3			01/15/20 22:57	80.7
Trichloroethene	570		87	13	ug/m3			01/15/20 22:57	80.7
Vinyl chloride	<5.4		41	5.4	ug/m3			01/15/20 22:57	80.7

Eurofins TestAmerica, Burlington

Client Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-3

Lab Sample ID: 200-52203-3

Date Collected: 01/13/20 11:52

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.4	J	6.0	0.90	ppb v/v			01/15/20 23:47	30
Tetrachloroethene	4700	E	6.0	0.90	ppb v/v			01/15/20 23:47	30
trans-1,2-Dichloroethene	1.4	J	6.0	0.81	ppb v/v			01/15/20 23:47	30
Trichloroethene	200		6.0	0.90	ppb v/v			01/15/20 23:47	30
Vinyl chloride	<0.78		6.0	0.78	ppb v/v			01/15/20 23:47	30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	13	J	24	3.6	ug/m3			01/15/20 23:47	30
Tetrachloroethene	32000	E	41	6.1	ug/m3			01/15/20 23:47	30
trans-1,2-Dichloroethene	5.5	J	24	3.2	ug/m3			01/15/20 23:47	30
Trichloroethene	1100		32	4.8	ug/m3			01/15/20 23:47	30
Vinyl chloride	<2.0		15	2.0	ug/m3			01/15/20 23:47	30

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<4.5		30	4.5	ppb v/v			01/17/20 12:28	150
Tetrachloroethene	5000		30	4.5	ppb v/v			01/17/20 12:28	150
trans-1,2-Dichloroethene	<4.1		30	4.1	ppb v/v			01/17/20 12:28	150
Trichloroethene	190		30	4.5	ppb v/v			01/17/20 12:28	150
Vinyl chloride	<3.9		30	3.9	ppb v/v			01/17/20 12:28	150

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<18		120	18	ug/m3			01/17/20 12:28	150
Tetrachloroethene	34000		200	31	ug/m3			01/17/20 12:28	150
trans-1,2-Dichloroethene	<16		120	16	ug/m3			01/17/20 12:28	150
Trichloroethene	1000		160	24	ug/m3			01/17/20 12:28	150
Vinyl chloride	<10		77	10	ug/m3			01/17/20 12:28	150

Client Sample ID: SSVS-4

Lab Sample ID: 200-52203-4

Date Collected: 01/13/20 13:00

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.5		3.2	0.48	ppb v/v			01/16/20 01:27	16.1
Tetrachloroethene	2300	E	3.2	0.48	ppb v/v			01/16/20 01:27	16.1
trans-1,2-Dichloroethene	0.58	J	3.2	0.43	ppb v/v			01/16/20 01:27	16.1
Trichloroethene	110		3.2	0.48	ppb v/v			01/16/20 01:27	16.1
Vinyl chloride	<0.42		3.2	0.42	ppb v/v			01/16/20 01:27	16.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	14		13	1.9	ug/m3			01/16/20 01:27	16.1
Tetrachloroethene	16000	E	22	3.3	ug/m3			01/16/20 01:27	16.1
trans-1,2-Dichloroethene	2.3	J	13	1.7	ug/m3			01/16/20 01:27	16.1
Trichloroethene	590		17	2.6	ug/m3			01/16/20 01:27	16.1
Vinyl chloride	<1.1		8.2	1.1	ug/m3			01/16/20 01:27	16.1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.4	J	15	2.3	ppb v/v			01/16/20 15:27	77.4
Tetrachloroethene	2200		15	2.3	ppb v/v			01/16/20 15:27	77.4

Eurofins TestAmerica, Burlington

Client Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-4

Lab Sample ID: 200-52203-4

Date Collected: 01/13/20 13:00

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<2.1		15	2.1	ppb v/v			01/16/20 15:27	77.4
Trichloroethene	100		15	2.3	ppb v/v			01/16/20 15:27	77.4
Vinyl chloride	<2.0		15	2.0	ppb v/v			01/16/20 15:27	77.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	13	J	61	9.2	ug/m3			01/16/20 15:27	77.4
Tetrachloroethene	15000		100	16	ug/m3			01/16/20 15:27	77.4
trans-1,2-Dichloroethene	<8.3		61	8.3	ug/m3			01/16/20 15:27	77.4
Trichloroethene	560		83	12	ug/m3			01/16/20 15:27	77.4
Vinyl chloride	<5.1		40	5.1	ug/m3			01/16/20 15:27	77.4

Client Sample ID: SSVS-5

Lab Sample ID: 200-52203-5

Date Collected: 01/13/20 10:47

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	13	J	17	2.5	ppb v/v			02/03/20 20:50	83.3
Tetrachloroethene	1700		17	2.5	ppb v/v			02/03/20 20:50	83.3
trans-1,2-Dichloroethene	<2.2		17	2.2	ppb v/v			02/03/20 20:50	83.3
Trichloroethene	200		17	2.5	ppb v/v			02/03/20 20:50	83.3
Vinyl chloride	<2.2		17	2.2	ppb v/v			02/03/20 20:50	83.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	50	J	66	9.9	ug/m3			02/03/20 20:50	83.3
Tetrachloroethene	11000		110	17	ug/m3			02/03/20 20:50	83.3
trans-1,2-Dichloroethene	<8.9		66	8.9	ug/m3			02/03/20 20:50	83.3
Trichloroethene	1100		90	13	ug/m3			02/03/20 20:50	83.3
Vinyl chloride	<5.5		43	5.5	ug/m3			02/03/20 20:50	83.3

Client Sample ID: SSVS-6

Lab Sample ID: 200-52203-6

Date Collected: 01/13/20 09:22

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	23		1.4	0.21	ppb v/v			01/16/20 16:16	7.03
Tetrachloroethene	1100	E	1.4	0.21	ppb v/v			01/16/20 16:16	7.03
trans-1,2-Dichloroethene	1.2	J	1.4	0.19	ppb v/v			01/16/20 16:16	7.03
Trichloroethene	120		1.4	0.21	ppb v/v			01/16/20 16:16	7.03
Vinyl chloride	<0.18		1.4	0.18	ppb v/v			01/16/20 16:16	7.03
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	91		5.6	0.84	ug/m3			01/16/20 16:16	7.03
Tetrachloroethene	7600	E	9.5	1.4	ug/m3			01/16/20 16:16	7.03
trans-1,2-Dichloroethene	4.8	J	5.6	0.75	ug/m3			01/16/20 16:16	7.03
Trichloroethene	670		7.6	1.1	ug/m3			01/16/20 16:16	7.03
Vinyl chloride	<0.47		3.6	0.47	ug/m3			01/16/20 16:16	7.03

Eurofins TestAmerica, Burlington

Client Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-6

Lab Sample ID: 200-52203-6

Date Collected: 01/13/20 09:22

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	20		6.9	1.0	ppb v/v			01/16/20 17:06	34.5
Tetrachloroethene	1100		6.9	1.0	ppb v/v			01/16/20 17:06	34.5
trans-1,2-Dichloroethene	<0.93		6.9	0.93	ppb v/v			01/16/20 17:06	34.5
Trichloroethene	120		6.9	1.0	ppb v/v			01/16/20 17:06	34.5
Vinyl chloride	<0.90		6.9	0.90	ppb v/v			01/16/20 17:06	34.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	79		27	4.1	ug/m3			01/16/20 17:06	34.5
Tetrachloroethene	7500		47	7.0	ug/m3			01/16/20 17:06	34.5
trans-1,2-Dichloroethene	<3.7		27	3.7	ug/m3			01/16/20 17:06	34.5
Trichloroethene	640		37	5.6	ug/m3			01/16/20 17:06	34.5
Vinyl chloride	<2.3		18	2.3	ug/m3			01/16/20 17:06	34.5

Client Sample ID: SUMMA CANISTER BLANK

Lab Sample ID: 200-52203-7

Date Collected: 01/13/20 00:00

Matrix: Air

Date Received: 01/14/20 10:31

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.030		0.20	0.030	ppb v/v			01/16/20 17:56	1
Tetrachloroethene	0.030	J	0.20	0.030	ppb v/v			01/16/20 17:56	1
trans-1,2-Dichloroethene	<0.027		0.20	0.027	ppb v/v			01/16/20 17:56	1
Trichloroethene	<0.030		0.20	0.030	ppb v/v			01/16/20 17:56	1
Vinyl chloride	<0.026		0.20	0.026	ppb v/v			01/16/20 17:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.12		0.79	0.12	ug/m3			01/16/20 17:56	1
Tetrachloroethene	0.21	J	1.4	0.20	ug/m3			01/16/20 17:56	1
trans-1,2-Dichloroethene	<0.11		0.79	0.11	ug/m3			01/16/20 17:56	1
Trichloroethene	<0.16		1.1	0.16	ug/m3			01/16/20 17:56	1
Vinyl chloride	<0.066		0.51	0.066	ug/m3			01/16/20 17:56	1

QC Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-151470/5
Matrix: Air
Analysis Batch: 151470

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.030		0.20	0.030	ppb v/v			01/15/20 14:14	1
Tetrachloroethene	<0.030		0.20	0.030	ppb v/v			01/15/20 14:14	1
trans-1,2-Dichloroethene	<0.027		0.20	0.027	ppb v/v			01/15/20 14:14	1
Trichloroethene	<0.030		0.20	0.030	ppb v/v			01/15/20 14:14	1
Vinyl chloride	<0.026		0.20	0.026	ppb v/v			01/15/20 14:14	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.12		0.79	0.12	ug/m3			01/15/20 14:14	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			01/15/20 14:14	1
trans-1,2-Dichloroethene	<0.11		0.79	0.11	ug/m3			01/15/20 14:14	1
Trichloroethene	<0.16		1.1	0.16	ug/m3			01/15/20 14:14	1
Vinyl chloride	<0.066		0.51	0.066	ug/m3			01/15/20 14:14	1

Lab Sample ID: LCS 200-151470/4
Matrix: Air
Analysis Batch: 151470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	10.0	8.67		ppb v/v		87	72 - 121
Tetrachloroethene	10.0	9.62		ppb v/v		96	70 - 125
trans-1,2-Dichloroethene	10.0	9.86		ppb v/v		99	69 - 137
Trichloroethene	10.0	9.05		ppb v/v		90	73 - 122
Vinyl chloride	10.0	9.88		ppb v/v		99	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	40	34.4		ug/m3		87	72 - 121
Tetrachloroethene	68	65.3		ug/m3		96	70 - 125
trans-1,2-Dichloroethene	40	39.1		ug/m3		99	69 - 137
Trichloroethene	54	48.6		ug/m3		90	73 - 122
Vinyl chloride	26	25.3		ug/m3		99	61 - 135

Lab Sample ID: MB 200-151507/5
Matrix: Air
Analysis Batch: 151507

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.030		0.20	0.030	ppb v/v			01/16/20 11:59	1
Tetrachloroethene	<0.030		0.20	0.030	ppb v/v			01/16/20 11:59	1
trans-1,2-Dichloroethene	<0.027		0.20	0.027	ppb v/v			01/16/20 11:59	1
Trichloroethene	<0.030		0.20	0.030	ppb v/v			01/16/20 11:59	1
Vinyl chloride	<0.026		0.20	0.026	ppb v/v			01/16/20 11:59	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.12		0.79	0.12	ug/m3			01/16/20 11:59	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			01/16/20 11:59	1
trans-1,2-Dichloroethene	<0.11		0.79	0.11	ug/m3			01/16/20 11:59	1
Trichloroethene	<0.16		1.1	0.16	ug/m3			01/16/20 11:59	1
Vinyl chloride	<0.066		0.51	0.066	ug/m3			01/16/20 11:59	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-151507/6
Matrix: Air
Analysis Batch: 151507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
cis-1,2-Dichloroethene	10.0	8.60		ppb v/v		86	72 - 121	
Tetrachloroethene	10.0	9.62		ppb v/v		96	70 - 125	
trans-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	69 - 137	
Trichloroethene	10.0	9.68		ppb v/v		97	73 - 122	
Vinyl chloride	10.0	9.99		ppb v/v		100	61 - 135	

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
cis-1,2-Dichloroethene	40	34.1		ug/m3		86	72 - 121	
Tetrachloroethene	68	65.3		ug/m3		96	70 - 125	
trans-1,2-Dichloroethene	40	40.6		ug/m3		102	69 - 137	
Trichloroethene	54	52.0		ug/m3		97	73 - 122	
Vinyl chloride	26	25.5		ug/m3		100	61 - 135	

Lab Sample ID: MB 200-151551/4
Matrix: Air
Analysis Batch: 151551

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.0307	J	0.20	0.030	ppb v/v		01/17/20 11:31	1	
trans-1,2-Dichloroethene	<0.027		0.20	0.027	ppb v/v		01/17/20 11:31	1	
Trichloroethene	<0.030		0.20	0.030	ppb v/v		01/17/20 11:31	1	
Vinyl chloride	<0.026		0.20	0.026	ppb v/v		01/17/20 11:31	1	

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.208	J	1.4	0.20	ug/m3		01/17/20 11:31	1	
trans-1,2-Dichloroethene	<0.11		0.79	0.11	ug/m3		01/17/20 11:31	1	
Trichloroethene	<0.16		1.1	0.16	ug/m3		01/17/20 11:31	1	
Vinyl chloride	<0.066		0.51	0.066	ug/m3		01/17/20 11:31	1	

Lab Sample ID: LCS 200-151551/3
Matrix: Air
Analysis Batch: 151551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
cis-1,2-Dichloroethene	10.0	8.99		ppb v/v		90	72 - 121	
Tetrachloroethene	10.0	8.43		ppb v/v		84	70 - 125	
trans-1,2-Dichloroethene	10.0	8.86		ppb v/v		89	69 - 137	
Trichloroethene	10.0	9.33		ppb v/v		93	73 - 122	
Vinyl chloride	10.0	10.0		ppb v/v		100	61 - 135	

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
cis-1,2-Dichloroethene	40	35.7		ug/m3		90	72 - 121	
Tetrachloroethene	68	57.1		ug/m3		84	70 - 125	
trans-1,2-Dichloroethene	40	35.1		ug/m3		89	69 - 137	
Trichloroethene	54	50.1		ug/m3		93	73 - 122	
Vinyl chloride	26	25.6		ug/m3		100	61 - 135	

QC Sample Results

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-151918/4
Matrix: Air
Analysis Batch: 151918

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<0.030		0.20	0.030	ppb v/v			01/31/20 12:31	1
Tetrachloroethene	<0.030		0.20	0.030	ppb v/v			01/31/20 12:31	1
trans-1,2-Dichloroethene	<0.027		0.20	0.027	ppb v/v			01/31/20 12:31	1
Trichloroethene	<0.030		0.20	0.030	ppb v/v			01/31/20 12:31	1
Vinyl chloride	<0.026		0.20	0.026	ppb v/v			01/31/20 12:31	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<0.12		0.79	0.12	ug/m3			01/31/20 12:31	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			01/31/20 12:31	1
trans-1,2-Dichloroethene	<0.11		0.79	0.11	ug/m3			01/31/20 12:31	1
Trichloroethene	<0.16		1.1	0.16	ug/m3			01/31/20 12:31	1
Vinyl chloride	<0.066		0.51	0.066	ug/m3			01/31/20 12:31	1

Lab Sample ID: LCS 200-151918/5
Matrix: Air
Analysis Batch: 151918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.5	11.0		ppb v/v		105	70 - 125
trans-1,2-Dichloroethene	10.3	8.71		ppb v/v		84	69 - 137
Trichloroethene	10.3	9.68		ppb v/v		94	73 - 122
Vinyl chloride	9.99	8.99		ppb v/v		90	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	71	74.4		ug/m3		105	70 - 125
trans-1,2-Dichloroethene	41	34.5		ug/m3		84	69 - 137
Trichloroethene	55	52.0		ug/m3		94	73 - 122
Vinyl chloride	26	23.0		ug/m3		90	61 - 135

QC Association Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Air - GC/MS VOA

Analysis Batch: 151470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52203-2	SSVS-2	Total/NA	Air	TO-15	
200-52203-2 - DL	SSVS-2	Total/NA	Air	TO-15	
200-52203-3	SSVS-3	Total/NA	Air	TO-15	
200-52203-4	SSVS-4	Total/NA	Air	TO-15	
MB 200-151470/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-151470/4	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 151507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52203-4 - DL	SSVS-4	Total/NA	Air	TO-15	
200-52203-6	SSVS-6	Total/NA	Air	TO-15	
200-52203-6 - DL	SSVS-6	Total/NA	Air	TO-15	
200-52203-7	SUMMA CANISTER BLANK	Total/NA	Air	TO-15	
MB 200-151507/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-151507/6	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 151551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52203-3 - DL	SSVS-3	Total/NA	Air	TO-15	
MB 200-151551/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-151551/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 151914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52203-5	SSVS-5	Total/NA	Air	TO-15	

Analysis Batch: 151918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52203-1	SSVS-1	Total/NA	Air	TO-15	
MB 200-151918/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-151918/5	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SSVS-1

Date Collected: 01/13/20 09:10

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		500	151918	02/01/20 07:42	K1P	TAL BUR

Client Sample ID: SSVS-2

Date Collected: 01/13/20 10:32

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		15.9	151470	01/15/20 22:07	K1P	TAL BUR
Total/NA	Analysis	TO-15	DL	80.7	151470	01/15/20 22:57	K1P	TAL BUR

Client Sample ID: SSVS-3

Date Collected: 01/13/20 11:52

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15	DL	150	151551	01/17/20 12:28	A1B	TAL BUR
Total/NA	Analysis	TO-15		30	151470	01/15/20 23:47	K1P	TAL BUR

Client Sample ID: SSVS-4

Date Collected: 01/13/20 13:00

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		16.1	151470	01/16/20 01:27	K1P	TAL BUR
Total/NA	Analysis	TO-15	DL	77.4	151507	01/16/20 15:27	A1B	TAL BUR

Client Sample ID: SSVS-5

Date Collected: 01/13/20 10:47

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		83.3	151914	02/03/20 20:50	K1P	TAL BUR

Client Sample ID: SSVS-6

Date Collected: 01/13/20 09:22

Date Received: 01/14/20 10:31

Lab Sample ID: 200-52203-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		7.03	151507	01/16/20 16:16	A1B	TAL BUR
Total/NA	Analysis	TO-15	DL	34.5	151507	01/16/20 17:06	A1B	TAL BUR

Lab Chronicle

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Client Sample ID: SUMMA CANISTER BLANK

Lab Sample ID: 200-52203-7

Date Collected: 01/13/20 00:00

Matrix: Air

Date Received: 01/14/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	151507	01/16/20 17:56	A1B	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State	PH-0751	09-30-21
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-20
Rhode Island	State Program	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Burlington

Method Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job ID: 200-52203-1

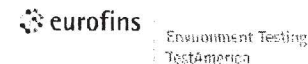
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-52203-1	SSVS-1	Air	01/13/20 09:10	01/14/20 10:31	Air Canister (6-Liter) #10680
200-52203-2	SSVS-2	Air	01/13/20 10:32	01/14/20 10:31	Air Canister (6-Liter) #34000856
200-52203-3	SSVS-3	Air	01/13/20 11:52	01/14/20 10:31	Air Canister (6-Liter) #11213
200-52203-4	SSVS-4	Air	01/13/20 13:00	01/14/20 10:31	Air Canister (6-Liter) #10262
200-52203-5	SSVS-5	Air	01/13/20 10:47	01/14/20 10:31	Air Canister (6-Liter) #11041
200-52203-6	SSVS-6	Air	01/13/20 09:22	01/14/20 10:31	Air Canister (6-Liter) #09757
200-52203-7	SUMMA CANISTER BLANK	Air	01/13/20 00:00	01/14/20 10:31	Air Canister (6-Liter) #12100

Eurofins TestAmerica, Knoxville

5815 Middlebrook Pike
 Knoxville, TN 37921
 Phone 865-291-3000
 Fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information Brian Schwissler					Client Project Manager: SPMO			Samples Collected By: Edward G. DIESCH						COC No: _____ of _____ COCs																																																																																																																																																																																																																																																																																																						
Company Name: GRAEF Suite 300					Phone: _____			<table border="1"> <tr><td>TO-14/15 (Standard / Low Level)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TO-15 SIM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>EPA 3C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>EPA 25C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>ASTM D-1946</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>EPA 15/16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Other (Please specify in notes section)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Sample Type</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Indoor Air/Ambient Air</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Sub-Slab</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Soil Gas</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Soil Vapor Extraction (SVE)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Landfill Gas</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Other (Please specify in notes section)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						TO-14/15 (Standard / Low Level)																				TO-15 SIM																					EPA 3C																					EPA 25C																					ASTM D-1946																					EPA 15/16																					Other (Please specify in notes section)																					Sample Type																					Indoor Air/Ambient Air																					Sub-Slab																					Soil Gas																					Soil Vapor Extraction (SVE)																					Landfill Gas																					Other (Please specify in notes section)																					For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____	
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City/State/Zip: MELWAUKEE, WI 53203					Tel/Fax: _____									(See below for Add'l Items)																																																																																																																																																																																																																																																																																																						
Phone: 414-259-1500					Project Name: SPBC + SPAN N. RICHARDS																																																																																																																																																																																																																																																																																																															
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Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:																																																																																																																																																																																																																																																																																													
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SSVS-4	1-13	12:00	1-13	1:00	-28.5		10667	10262	X							X		X																																																																																																																																																																																																																																																																																																		
SSVS-5	1-13	9:42	1-13	10:42	-28.5	-10.0	11526	11041	X							X		X																																																																																																																																																																																																																																																																																																		
SSVS-6	1-13	8:22	1-13	9:22	-28.7	-10.0	11989	09757	X							X		A																																																																																																																																																																																																																																																																																																		
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Special Instructions/QC Requirements & Comments: HOLD SSVS-1 AND SSVS-5 UNTIL NOTIFIED ONLY REPORT PERCHLOROETHYLENE AND ITS BREAKDOWN PRODUCTS																																																																																																																																																																																																																																																																																																																				
Samples Shipped by: Edward G. Dirsch					Date / Time: 1-13-2020 15:00			Samples Received by: Sam Hall TABur 1/14/19 1031																																																																																																																																																																																																																																																																																																												
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ANITA S.
(414) 259-1500
GRAEF
275 W WISCONSIN AVENUE
MILWAUKEE WI 53203

60 LBS

1 OF 1

SHIP TO:

SANDIE FREDRICK
(802) 660-1990
EUROFINS TESTAMERICA
STE. 11
30 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



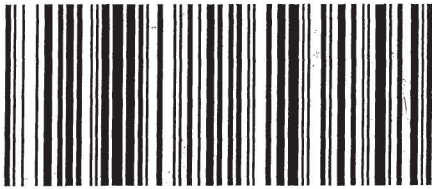
VT 054 0-02



UPS NEXT DAY AIR

TRACKING #: 1Z 577 820 01 6460 7329

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BILLING: P/P

REF 1:2019-0163.01
REF 2:EGD

WS 22.0.15 Zebra ZP 460 20.0A 10/2019

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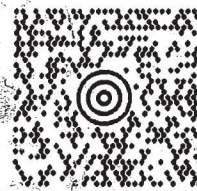
ANITA S.
(414) 259-1500
GRAEF
275 W WISCONSIN AVENUE
MILWAUKEE WI 53203

40 LBS

1 OF 1

SHIP TO:

SANDIE FREDRICK
(802) 660-1990
EUROFINS TESTAMERICA
STE. 11
30 COMMUNITY DRIVE
SOUTH BURLINGTON VT 05403



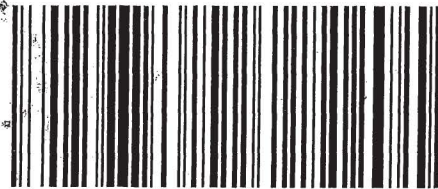
VT 054 0-02



UPS NEXT DAY AIR

TRACKING #: 1Z 577 820 01 6400 1330

1



BILLING: P/P

REF 1:2019-0163.01
REF 2:EGD

WS 22.0.15 Zebra ZP 450 20.0A 10/2019

SEE NOTICE ON REVERSE regarding UPS Terms, and notice of limitation of liability. Where allowed by law, shipper authorizes UPS to act as forwarding agent for export control and

Login Sample Receipt Checklist

Client: GRAEF

Job Number: 200-52203-1

Login Number: 52203

List Number: 1

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1046416, 1046417
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	ED
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17677-1
 SDG No.: _____
 Client Sample ID: 09961 Lab Sample ID: 140-17677-13
 Matrix: Air Lab File ID: HL20LOT17677.D
 Analysis Method: TO 15 LL Date Collected: 12/19/2019 11:20
 Sample wt/vol: 500 (mL) Date Analyzed: 12/21/2019 04:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	ND		0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080
79-00-5	1,1,2-Trichloroethane	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080
75-34-3	1,1-Dichloroethane	ND		0.080
75-35-4	1,1-Dichloroethene	ND		0.040
87-61-6	1,2,3-Trichlorobenzene	ND		0.40
96-18-4	1,2,3-Trichloropropane	ND		0.20
526-73-8	1,2,3-Trimethylbenzene	ND		0.080
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	ND		0.080
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16
106-93-4	1,2-Dibromoethane	ND		0.080
95-50-1	1,2-Dichlorobenzene	ND		0.080
107-06-2	1,2-Dichloroethane	ND		0.080
78-87-5	1,2-Dichloropropane	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	ND		0.080
106-99-0	1,3-Butadine	ND		0.16
541-73-1	1,3-Dichlorobenzene	ND		0.080
106-46-7	1,4-Dichlorobenzene	ND		0.080
123-91-1	1,4-Dioxane	ND		0.20
71-36-3	1-Butanol	ND		0.80
90-12-0	1-Methylnaphthalene	ND		1.0
540-84-1	2,2,4-Trimethylpentane	ND		0.20
565-59-3	2,3-Dimethylpentane	ND		0.080
78-93-3	2-Butanone	ND		0.32
95-49-8	2-Chlorotoluene	ND		0.16
591-78-6	2-Hexanone	ND		0.20
78-78-4	2-Methylbutane	ND		0.20
91-57-6	2-Methylnaphthalene	ND		1.0
107-83-5	2-Methylpentane	ND		0.080
107-05-1	3-Chloroprene	ND		0.080
622-96-8	4-Ethyltoluene	ND		0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17677-1
 SDG No.: _____
 Client Sample ID: 09961 Lab Sample ID: 140-17677-13
 Matrix: Air Lab File ID: HL20LOT17677.D
 Analysis Method: TO 15 LL Date Collected: 12/19/2019 11:20
 Sample wt/vol: 500 (mL) Date Analyzed: 12/21/2019 04:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	ND		2.0	
75-05-8	Acetonitrile	ND		0.40	
107-02-8	Acrolein	ND		0.40	
107-13-1	Acrylonitrile	ND		0.80	
98-83-9	Alpha Methyl Styrene	ND		0.16	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
75-27-4	Bromodichloromethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
74-83-9	Bromomethane	ND		0.080	
106-97-8	Butane	ND		0.16	
75-15-0	Carbon disulfide	ND		0.20	
56-23-5	Carbon tetrachloride	ND		0.032	
108-90-7	Chlorobenzene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
67-66-3	Chloroform	ND		0.080	
74-87-3	Chloromethane	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
98-82-8	Cumene	ND		0.16	
110-82-7	Cyclohexane	ND		0.20	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
75-71-8	Dichlorodifluoromethane	ND		0.080	
64-17-5	Ethanol	ND		2.0	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
100-41-4	Ethylbenzene	ND		0.080	
87-68-3	Hexachlorobutadiene	ND		0.080	
110-54-3	Hexane	ND		0.20	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17677-1
 SDG No.: _____
 Client Sample ID: 09961 Lab Sample ID: 140-17677-13
 Matrix: Air Lab File ID: HL20LOT17677.D
 Analysis Method: TO 15 LL Date Collected: 12/19/2019 11:20
 Sample wt/vol: 500 (mL) Date Analyzed: 12/21/2019 04:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
108-87-2	Methylcyclohexane	ND		0.080	
75-09-2	Methylene Chloride	ND		0.40	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
91-20-3	Naphthalene	ND		0.20	
104-51-8	n-Butylbenzene	ND		0.16	
124-18-5	n-Decane	ND		0.40	
112-40-3	n-Dodecane	ND		0.40	
142-82-5	n-Heptane	ND		0.20	
111-84-2	n-Nonane	ND		0.20	
111-65-9	n-Octane	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
95-47-6	o-Xylene	ND		0.080	
99-87-6	p-Cymene	ND		0.080	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		1.0	
135-98-8	sec-Butylbenzene	ND		0.16	
100-42-5	Styrene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
98-06-6	tert-Butylbenzene	ND		0.20	
127-18-4	Tetrachloroethene	ND		0.040	
109-99-9	Tetrahydrofuran	ND		0.40	
110-02-1	Thiophene	ND		0.080	
108-88-3	Toluene	ND		0.12	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
79-01-6	Trichloroethene	ND		0.036	
75-69-4	Trichlorofluoromethane	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
75-01-4	Vinyl chloride	ND		0.040	

FORM I
 AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET
 TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17677-1
 SDG No.: _____
 Client Sample ID: 09961 Lab Sample ID: 140-17677-13
 Matrix: Air Lab File ID: HL20LOT17677.D
 Analysis Method: TO 15 LL Date Collected: 12/19/2019 11:20
 Sample wt/vol: 500 (mL) Date Analyzed: 12/21/2019 04:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36253 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromna\Knoxville\ChromData\MH\20191220-14103.b\HL20LOT17677.D
 Lims ID: 140-17677-A-13
 Client ID: 09961
 Sample Type: Client
 Inject. Date: 21-Dec-2019 04:06:30 ALS Bottle#: 12 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0014103-018
 Misc. Info.: 09961
 Operator ID: AFB Instrument ID: MH
 Method: \\chromna\Knoxville\ChromData\MH\20191220-14103.b\MH_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 23-Dec-2019 12:36:21 Calib Date: 20-Dec-2019 04:28:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Knoxville\ChromData\MH\20191219-14098.b\HJ19C10.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: CTX0330

First Level Reviewer: khachitpongpanits Date: 23-Dec-2019 12:52:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.603	8.608	-0.005	90	261638	4.00	
* 2 1,4-Difluorobenzene	114	10.805	10.810	-0.005	94	1490720	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.585	15.585	0.000	86	1183731	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.234	17.234	0.000	95	733777	3.88	
7 Propene	41	3.559	3.559	0.000	98	36312	0.3997	7
31 Methylene Chloride	84	6.070	6.070	0.000	95	37739	0.3572	
73 Tetrachloroethene	129	14.753	14.753	0.000	92	796	0.007598	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSURP_00004 Amount Added: 40.00 Units: mL Run Reagent

Data File: \\chromna\Knoxville\ChromData\MH\20191220-14103.b\HL20LOT17677.D

Injection Date: 21-Dec-2019 04:06:30

Instrument ID: MH

Operator ID: AFB

Lims ID: 140-17677-A-13

Lab Sample ID: 140-17677-13

Worklist Smp#: 18

Client ID: 09961

Purge Vol: 500.000 mL

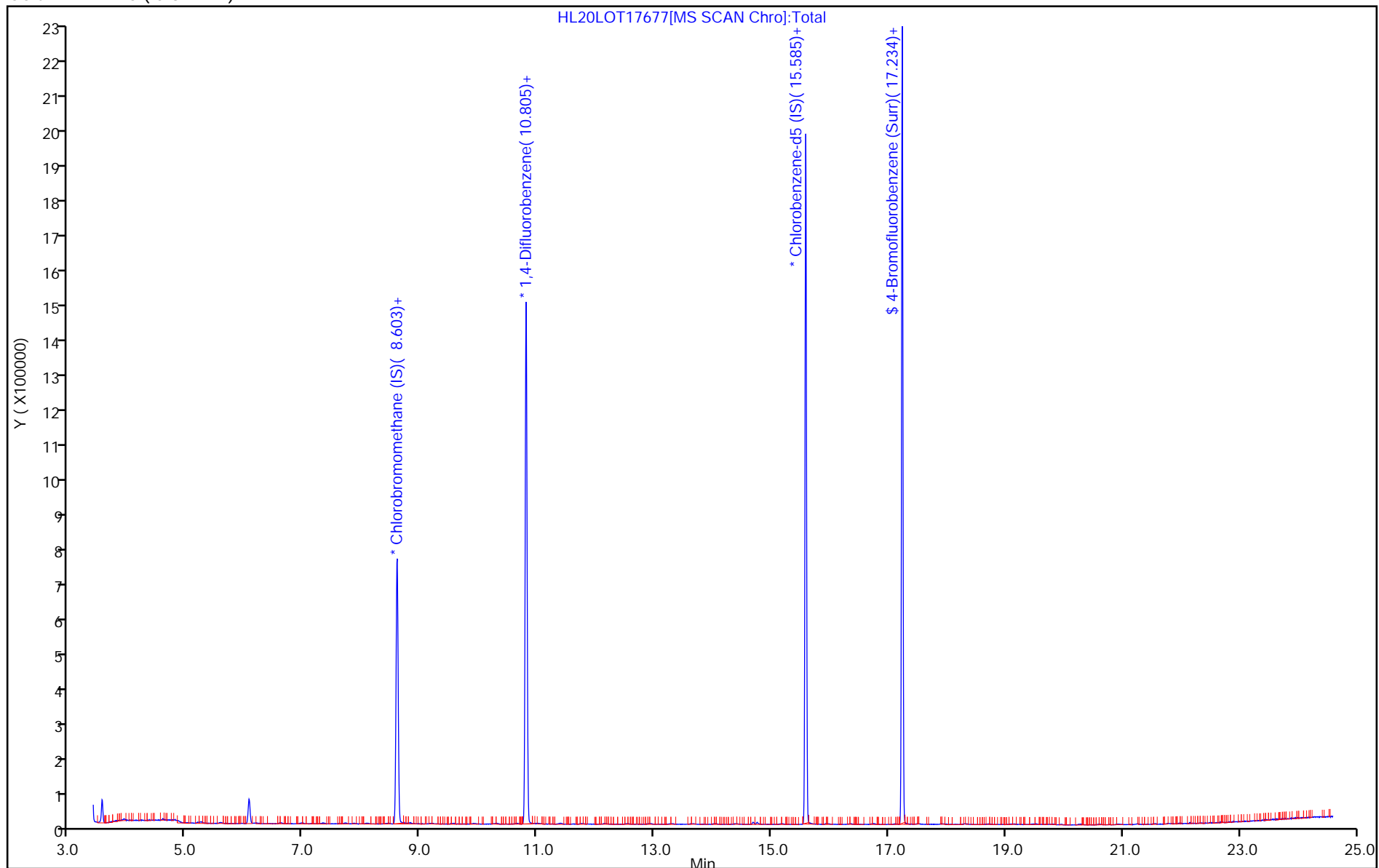
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MH_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17718-1
 SDG No.: _____
 Client Sample ID: 10764 Lab Sample ID: 140-17718-5
 Matrix: Air Lab File ID: L23L17718.D
 Analysis Method: TO 15 LL Date Collected: 12/21/2019 13:55
 Sample wt/vol: 500 (mL) Date Analyzed: 12/23/2019 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36205 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	ND		0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080
79-00-5	1,1,2-Trichloroethane	ND		0.080
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080
75-34-3	1,1-Dichloroethane	ND		0.080
75-35-4	1,1-Dichloroethene	ND		0.040
87-61-6	1,2,3-Trichlorobenzene	ND		0.40
96-18-4	1,2,3-Trichloropropane	ND		0.20
526-73-8	1,2,3-Trimethylbenzene	ND		0.080
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080
120-82-1	1,2,4-Trichlorobenzene	ND		0.080
95-63-6	1,2,4-Trimethylbenzene	ND		0.080
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16
106-93-4	1,2-Dibromoethane	ND		0.080
95-50-1	1,2-Dichlorobenzene	ND		0.080
107-06-2	1,2-Dichloroethane	ND		0.080
78-87-5	1,2-Dichloropropane	ND		0.080
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080
108-67-8	1,3,5-Trimethylbenzene	ND		0.080
106-99-0	1,3-Butadine	ND		0.16
541-73-1	1,3-Dichlorobenzene	ND		0.080
106-46-7	1,4-Dichlorobenzene	ND		0.080
123-91-1	1,4-Dioxane	ND		0.20
71-36-3	1-Butanol	ND		0.80
90-12-0	1-Methylnaphthalene	ND		1.0
540-84-1	2,2,4-Trimethylpentane	ND		0.20
565-59-3	2,3-Dimethylpentane	ND		0.080
78-93-3	2-Butanone	ND		0.32
95-49-8	2-Chlorotoluene	ND		0.16
591-78-6	2-Hexanone	ND		0.20
78-78-4	2-Methylbutane	ND		0.20
91-57-6	2-Methylnaphthalene	ND		1.0
107-83-5	2-Methylpentane	ND		0.080
107-05-1	3-Chloroprene	ND		0.080
622-96-8	4-Ethyltoluene	ND		0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17718-1
 SDG No.: _____
 Client Sample ID: 10764 Lab Sample ID: 140-17718-5
 Matrix: Air Lab File ID: L23L17718.D
 Analysis Method: TO 15 LL Date Collected: 12/21/2019 13:55
 Sample wt/vol: 500 (mL) Date Analyzed: 12/23/2019 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36205 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
67-64-1	Acetone	ND		2.0	
75-05-8	Acetonitrile	ND		0.40	
107-02-8	Acrolein	ND		0.40	
107-13-1	Acrylonitrile	ND		0.80	
98-83-9	Alpha Methyl Styrene	ND		0.16	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
75-27-4	Bromodichloromethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
74-83-9	Bromomethane	ND	*	0.080	
106-97-8	Butane	ND		0.16	
75-15-0	Carbon disulfide	ND		0.20	
56-23-5	Carbon tetrachloride	ND		0.032	
108-90-7	Chlorobenzene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
67-66-3	Chloroform	ND		0.080	
74-87-3	Chloromethane	ND		0.20	
156-59-2	cis-1,2-Dichloroethene	ND		0.040	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
98-82-8	Cumene	ND		0.16	
110-82-7	Cyclohexane	ND		0.20	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
75-71-8	Dichlorodifluoromethane	ND		0.080	
64-17-5	Ethanol	ND		2.0	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
100-41-4	Ethylbenzene	ND		0.080	
87-68-3	Hexachlorobutadiene	ND		0.080	
110-54-3	Hexane	ND		0.20	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17718-1
 SDG No.: _____
 Client Sample ID: 10764 Lab Sample ID: 140-17718-5
 Matrix: Air Lab File ID: L23L17718.D
 Analysis Method: TO 15 LL Date Collected: 12/21/2019 13:55
 Sample wt/vol: 500 (mL) Date Analyzed: 12/23/2019 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36205 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
108-87-2	Methylcyclohexane	ND		0.080
75-09-2	Methylene Chloride	ND		0.40
179601-23-1	m-Xylene & p-Xylene	ND		0.080
91-20-3	Naphthalene	ND		0.20
104-51-8	n-Butylbenzene	ND		0.16
124-18-5	n-Decane	ND		0.40
112-40-3	n-Dodecane	ND		0.40
142-82-5	n-Heptane	ND		0.20
111-84-2	n-Nonane	ND		0.20
111-65-9	n-Octane	ND		0.16
103-65-1	N-Propylbenzene	ND		0.16
95-47-6	o-Xylene	ND		0.080
99-87-6	p-Cymene	ND		0.080
109-66-0	Pentane	ND		0.40
115-07-1	Propene	ND		1.0
135-98-8	sec-Butylbenzene	ND		0.16
100-42-5	Styrene	ND		0.080
75-65-0	tert-Butanol	ND		0.32
98-06-6	tert-Butylbenzene	ND		0.20
127-18-4	Tetrachloroethene	ND		0.040
109-99-9	Tetrahydrofuran	ND		0.40
110-02-1	Thiophene	ND		0.080
108-88-3	Toluene	ND		0.12
156-60-5	trans-1,2-Dichloroethene	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	ND		0.080
79-01-6	Trichloroethene	ND		0.036
75-69-4	Trichlorofluoromethane	ND		0.080
1120-21-4	Undecane	ND		0.40
108-05-4	Vinyl acetate	ND		0.40
593-60-2	Vinyl bromide	ND		0.080
75-01-4	Vinyl chloride	ND		0.040

FORM I
 AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET
 TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Knoxville Job No.: 140-17718-1
 SDG No.: _____
 Client Sample ID: 10764 Lab Sample ID: 140-17718-5
 Matrix: Air Lab File ID: L23L17718.D
 Analysis Method: TO 15 LL Date Collected: 12/21/2019 13:55
 Sample wt/vol: 500 (mL) Date Analyzed: 12/23/2019 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 36205 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins TestAmerica, Knoxville
Target Compound Quantitation Report

Data File: \\chromna\Knoxville\ChromData\MJ\20191219-14084.b\L23L17718.D
 Lims ID: 140-17718-A-5
 Client ID: 10764
 Sample Type: Client
 Inject. Date: 23-Dec-2019 10:01:30 ALS Bottle#: 16 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0014084-004
 Misc. Info.: 10764
 Operator ID: 007126 Instrument ID: MJ
 Method: \\chromna\Knoxville\ChromData\MJ\20191219-14084.b\MJ_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 24-Dec-2019 16:00:06 Calib Date: 09-Nov-2019 03:54:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Knoxville\ChromData\MJ\20191108-13648.b\JK08IC10.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: CTX0305

First Level Reviewer: khachitpongpanits Date: 24-Dec-2019 16:03:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.569	9.575	-0.006	87	349110	4.00	
* 2 1,4-Difluorobenzene	114	11.689	11.689	0.000	93	1969314	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.304	16.310	-0.006	85	1582125	4.00	
\$ 4 4-Bromofluorobenzene (Surr	95	17.913	17.918	-0.005	92	821067	3.23	
7 Propene	41	4.120	4.115	0.005	96	59288	0.4289	7
32 Methylene Chloride	84	6.939	6.944	-0.005	92	52883	0.3703	
34 Carbon disulfide	76	7.116	7.116	0.000	91	4890	0.0131	
48 1,1,1-Trichloroethane	97	10.608	10.602	0.006	85	5966	0.0235	
53 n-Butanol	31	11.199	11.173	0.026	89	2266	0.0644	
105 Undecane	57	20.119	20.119	0.000	86	2387	0.007679	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSURP_00004 Amount Added: 40.00 Units: mL Run Reagent

Eurofins TestAmerica, Knoxville

Data File: \\chromna\Knoxville\ChromData\MJ\20191219-14084.b\L23L17718.D

Injection Date: 23-Dec-2019 10:01:30

Instrument ID: MJ

Operator ID: 007126

Lims ID: 140-17718-A-5

Lab Sample ID: 140-17718-5

Worklist Smp#: 4

Client ID: 10764

Purge Vol: 500.000 mL

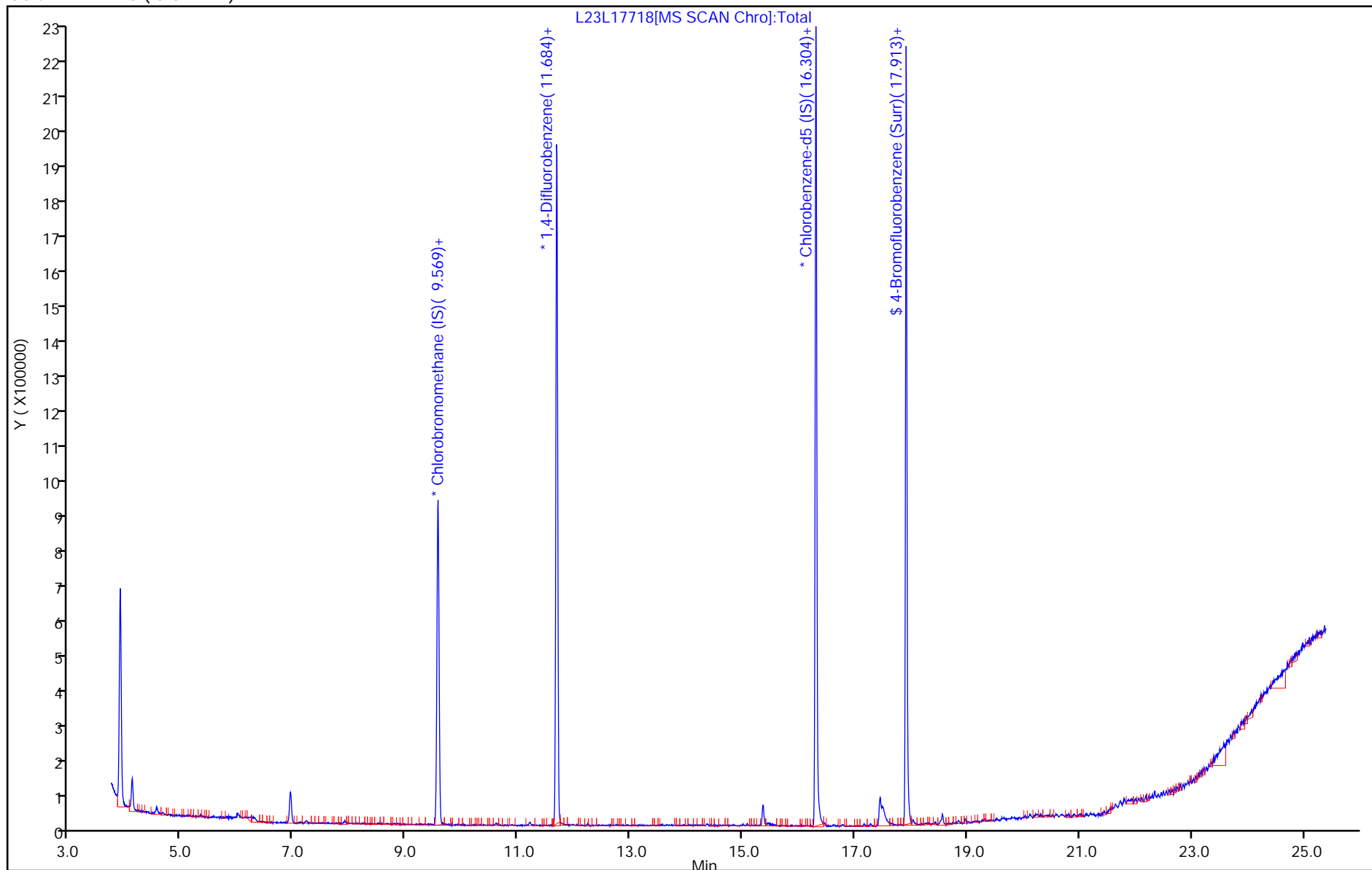
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MJ_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



Summa Canister Dilution Worksheet

Client: GRAEF
Project/Site: Spic & Span N. Richards

Job No.: 200-52203-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initials
200-52203-1	6	49.3	1.00	6.00	49.3	4.35	26.12		4.35	4.35	g8	01/31/20 13:53	VTP
200-52203-1	6	43.5	1.00	6.00	43.5	3.96	23.76		3.96	17.24	g8	01/31/20 16:46	VTP
200-52203-1	6	41.8	1.00	6.00	41.8	3.84	23.06		3.84	66.25	g8	01/31/20 16:46	VTP
200-52203-2	6	41.4	0.68	4.05	41.4	3.82	22.90		5.65	5.65	G8	01/15/20 12:18	TPB
200-52203-3	6	45.2	0.71	4.28	45.2	4.07	24.45		5.72	5.72	G8	01/15/20 12:22	TPB
200-52203-3	6	37.3	1.00	6.00	37.3	3.54	21.22		3.54	20.23	G8	01/15/20 12:22	TPB
200-52203-4	6	42.2	1.00	6.00	42.2	3.87	23.22		3.87	3.87	G8	01/15/20 12:26	TPB
200-52203-5	6	39.5	0.73	4.36	39.5	3.69	22.12		5.08	5.08	G8	01/15/20 12:27	TPB
200-52203-6	6	43.6	1.00	6.00	43.6	3.97	23.80		3.97	3.97	G8	01/15/20 12:29	TPB

Formulae:

Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg

Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig

Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)

14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)