

17 September 2018

Mr. Joshua Cummins
New York Department of Environmental Conservation
21 South Putt Corners Rd
New Paltz, NY 12561

Re: Tank Closure Report – Reg No. 3-000101
524 NY-303, Orangeburg, NY
(NYSDEC Spill No. 1711490)

**Environmental
Resources
Management**

105 Maxess Road
Suite 316
Melville, NY 11747
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(631) 756-8901 (fax)
<http://www.erm.com>



Dear Mr. Cummins:

On behalf of Avery Dennison Corporation (hereafter referred to as “Avery Dennison”), ERM Consulting & Engineering, Inc. (ERM) has prepared this summary letter report to document the investigation, and removal of three (3) underground storage tanks (UST’s), associated equipment and a concrete pad at 524 route 303, Orangeburg, NY (the Site or Property). The tanks removed included one (1) 10,000-gallon methyl ethyl ketone (MEK) UST, one (1) 10,000-gallon toluene UST and one (1) 5,000-gallon isopropanol UST.

PROJECT BACKGROUND

The Site is a former coated paper manufacturing facility located at 524 Route 303, in Orangeburg NY. The vacant Site is located in an industrial area surrounded by industrial properties in all directions. An active railroad borders the Site to the west.

Historically, Avery Dennison conducted groundwater sampling at the property from 2007 to 2014 for a chlorinated solvent release (NYSDEC Site No. 344072) unrelated to the former UST system. In a letter to Avery Dennison dated October 19, 2017, Mr. Daniel Landers of NYDEC indicated there is no need for further remedial action to address the on-Site groundwater condition at this time. Pursuant to subsequent discussions with Mr. Landers, Avery Dennison will record an easement for the entire property that prohibits residential land use and extraction of groundwater for potable use, and a pending Site Management Plan will outline future vapor intrusion mitigation activities under New York State Department of Health’s oversight. Avery Dennison shut down its operations and ceased all manufacturing on 22 December 2017. Finishing operations were continued until 15 February 2018, and all remaining equipment and inventory was removed from the facility by the end of March 2018. The decommissioning efforts included the removal of three solvent underground storage tanks (USTs), associated equipment and a concrete pad.

On 5 December 2017, a Tank Closure Notification Form was filed with the New York State Department of Environmental Conservation (NYSDEC) and approval was granted. Copies of the closure notice and approval emails are provided as Appendix A. A site plan showing the tank locations is provided as Figure 1.

While closing the tanks, an interior secondary containment sump above which the transfer pumps for the former USTs were located was identified and removed. During its removal soil impacts were identified indicating a release had occurred. This was reported to the NYSDEC through the Spill Hotline and Spill Number 1711490 was issued. This report also summarizes the findings of this supplemental investigation. The sumps location is identified in Figure 1.

For general comparison purposes, this letter report references the Industrial Use (IU), Unrestricted Use (UU) and Protection of Groundwater (PGW) Soil Cleanup Criteria's (SCO's), although in our conclusions we have assumed that IU will apply to the property once the pending easement is recorded.

DECOMMISSIONING ACTIVITIES

On 11 January 2018, ERM and its subcontractor, AES Remedial Contracting, LLC. ("AES") mobilized to the Site to remove the three tanks. The following activities were conducted during the removal of the tanks:

- The transfer line were disconnected from the pumps and flushed with clean water back to the tanks;
- The manways on either side of the tanks were exposed to allow access to the tanks for cleaning and removal of residual product;
- Veolia Environmental Services vacuumed out the residual product, while AES cleaned the interior of each of the three tanks.
- Following cleaning, dry ice was placed in each tank to render the atmosphere inert;
- The existing concrete pad above the tanks was then broken to expose the tank tops and remove the vent pipes, fill ports and tank alarms.
- The tanks were then exposed and the tie down straps were removed.
- The tanks were then removed, exteriors cleaned and interior inspected.
- The transfer lines were excavated, removed exteriors cleaned and interiors inspected.
- The tanks and transfer lines were then sent off-site for recycling.

Following removal of the tanks and transfer line the soil and groundwater were evaluated in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The following activities were conducted:

- A total of twelve (12) soil/solids samples and two (2) groundwater samples were collected.
 - Four (4) soil samples (SW-01 thru SW-04) were collected from the sidewalls of the tank grave (Table 1),
 - Seven (7) soil samples were collected from the sidewalls (PR-01 thru PR-06) and the bottom (PR-B-01) of the pipe run portion of the excavation (Table 2), and
 - One (1) solid sample (SUMP-01) was collected from the sump where the transfer lines running from the tanks entered the building (Table 2).
- Groundwater was encountered during excavation activities related to the tank removals, so, one (1) groundwater sample (GW-01) was collected from the bottom of the tank grave, and one (1) additional groundwater sample (GW-02) was collected from a monitoring well located down gradient from the grave (Table 3).
- All samples were analyzed for Volatile Organic Compounds (VOCs) via EPA Method V8260TCL20, Isopropyl Alcohol (IPA) Via EPA Method D8015 and percent solids.
- All sampling locations are provided in Figure 1.

The soil results were compared to the UU, PGW and IU Soil Cleanup SCO's listed in 6 New York Codes, Rules and Regulations (NYCCR) Part 375. All soil samples results were below the referenced criteria.

The groundwater results for samples GW-01 and GW-02 were compared to the NYS Ambient Groundwater Quality Standards and Guidance Values for Class GA (potable) ground water as listed in TOGS 1.1.1 (June 1998) and in 6 NYCRR 703.5 and the. The only detection in groundwater was toluene at 1.9 ug/l, which is below the applicable criteria. The results indicate no release has occurred from the tanks or transfer lines. A summary of the analytical results are provided as Tables 1 through 3 and a complete analytical data report is provided as Appendix B.

Soil material generated during the tank and piping removal was temporarily stockpiled on-site and sampled for all criteria required for soil re-use according to standards outlined by the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. Four (4) discrete samples (BM-01, 04, 07 and 10) were collected and analyzed for VOCs and two (2) composite samples (BM-25 and 26) were collected and analyzed for alcohols, semi-

volatile organic compound (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, herbicides, hexavalent and trivalent chromium, cyanide, redox, pH and percent solids. These analytical results were provided to the NYSDEC and authorization was obtained to re-use the excavated material as backfill (Appendix C). A summary of the analytical results is provided as Tables 4A & 4B and a complete analytical data report is provided as Appendix B.

On 31 January 2018, ERM and AES remobilized to backfill the excavations. The backfill was installed in compacted lifts, and finished to grade with topsoil. In addition to the material reused, fill material was brought in from off-Site to complete the backfilling. Receipts for the off-Site fill from West Nyack Quarry is provided in Appendix D. Pictures documenting the tank closure and restoration work are provided in Appendix E.

SUPPLEMENTAL INVESTIGATION FOR INTERIOR TRANSFER PUMP

On 28 February 2018, ERM returned to the Site to investigate a second sump discovered inside the Site building by an employee after removal of the chemical transfer pumps. The second sump was located adjacent to the sump where the transfer lines entered the building as indicated in Figure 1. The second sump was a steel lined overflow catch basin that was approximately 5 feet wide by 8 feet long and 2 feet deep. The sump was separated into two sections. One section had been abandoned and filled with concrete.

On 28 February 2018, ERM collected a sample (SUMP-02) from the material at the bottom of the sump and analyzed it for Volatile Organic Compounds (VOCs) via EPA Method V8260 TCL + TICS, Semi-Volatile Organic compounds (SVOCs) via EPA method SVOC8270 TCL + TICS, Isopropyl Alcohol (IPA) via EPA Method D8015, and Metals via EPA Methods 6010C, 7470A and 7471B and percent solids. Several volatile and semi-volatile organic compounds were detected at elevated concentrations. A summary of the analytical results from sample SUMP-02 are provided in Table 5.

On 14 March 2018, ERM mobilized to the Site to remove the sump. A small amount of subgrade material from the perimeter of the sump and from below the sump was also removed, and four (4) samples were collected, one from the bottom of the excavation (SUMP-PE-B), and three from the sidewalls (SUMP-PE-S, SUMP-PE-E, SUMP-PE-N). The west side of the excavation was the concrete building foundation wall so no sample was collected. The samples were analyzed for Volatile Organic Compounds (VOCs) via EPA Method V8260 TCL + TICS, Semi-Volatile Organic compounds (SVOCs) via EPA method SVOC8270 TCL + TICS, Isopropyl Alcohol (IPA) Via EPA

Method D8015 and percent solids. The data were compared to the UU, PGW and IU SCO's. Sampling locations are identified in Figure 1.

Acetone, MEK, and toluene were detected in samples SUMP-PE-B, SUMP-PE-S, and SUMP-PE-E in excess of the UU and PGW SCO's. Xylene was also detected in SUMP-PE-S in excess of the UU and PGW SCO's. None of the detected compounds exceeded the IU SCO's. Toluene was the only compound detected in SUMP-PE-N and it was below all applicable criteria. A summary of the results is provided in Table 6.

Based on the results ERM determined that a release had occurred and called the NYSDEC Spill Hotline to report a spill. Spill Number 1711490 was issued on 19 March 2018.

On 25 April 2018, ERM and Ephase II, LLC mobilized to the site to delineate the extent of impacted soil and groundwater. Twelve (12) soil borings (SB-01 - SB-12) were installed in a grid pattern around the SUMP and soil samples were collected from multiple depth intervals at each location. ERM analyzed eighteen (18) samples from 8 of the 12 borings surrounding the sump. The samples were analyzed for VOCs via EPA Method V8260 TCL + TICS, SVOCs via EPA method SVOC8270 TCL + TICS, IPA Via EPA Method D8015 and percent solids with the exception of SB-07, 08, 11 and 12, which were only analyzed for acetone via EPA Method V8260. Based on these analytical results ERM determined that it was not necessary to analyze the remaining samples. A list of the samples that were analyzed and associated depth intervals are provided below.

Sample ID	Depth (ft.)	Depth (ft.)	Depth (ft.)
SB01	2	4	
SB02	4.5	7.5	
SB03	1	4	8
SB04	1	4	
SB-07	1	4	8
SB-08	1	4	
SB-11	1	4	
SB-12	1	4	

One (1) temporary monitoring well (MW-03) was also installed downgradient of the sump and sampled on 25 May 2018. The approximate depth to groundwater at this location was 2-feet below the building slab.

The soil results were compared to the UU, PGW, and IU SCO's listed in 6 New York Codes, Rules and Regulations (NYCCR) Part 375. All soil samples results were below the IU SCO's.

Acetone was the only compound detected above its UU and PGW SCO, which is 50 ug/kg. Acetone exceeded its UU and PGW SCO at SB-04, SB-08, and SB-11 at 1' but did not exceed criteria at 4'. Acetone exceeded its UU and PGW SCO at SB-03 and SB-07 at both the 1' and 4' intervals but did not exceed in the 8' interval. Acetone exceeded its UU and PGW SCO at SB-12 at both 1' and 4' intervals. An 8' sample was not collected. The table below identifies the soil borings where acetone exceeded its UU and PGW SCO, and the depth of the sample with its corresponding acetone concentration in ug/kg.

Sample ID	Depth ft./ Acetone Conc. ug/kg	Depth ft./ Acetone Conc. ug/kg	Depth ft./ Acetone Conc. ug/kg
SB03	1 /437	4/83.4	8/<50.3
SB04	1/372	4/28.2	
SB-07	1/309	4/154	8/<46.5
SB-08	1/251	4/<75.5	
SB-11	1/85.9	4/<62.2	
SB-12	1/341	4/106	

A full summary of the analytical results is provided in Table 7. Sample locations are indicated in Figure 1.

The groundwater sample results from monitoring well MW-03, which was collected downgradient of the Sump as indicated in Figure 1, were compared to the NYS Ambient Groundwater Quality Standards and Guidance Values for Class GA (potable) ground water as listed in TOGS 1.1.1 (June 1998) and in 6 NYCRR 703.5 and the. No compounds were detected in monitoring well MW-03. A summary of the groundwater analytical results is provided in Table 3.

WASTE DISPOSAL

A total of 80 cubic yards of un-impacted concrete from above the tanks was removed and transported to Sterling Recycling, Inc. in Sloatsburg, NY, for recycling. A total of 10 tons of hazardous waste solids related to the removal of the second sump were transported to Wayne Disposal, Inc. Site #2 Landfill in Belleville, MI for disposal. One 55-gallon drum of hazardous concrete cutting water was transported to Veolia ES Technical Solutions in Flanders, NJ for disposal. The associated waste disposal documentation is provided as Appendix F.

Approximately 1,400 – 1,800 gallons of combined tank sludge and wash water were collected in the vacuum truck and the tanks were then transported to Teplitz Metal Processing in Nanuet, NY for recycling. The associated receipts are provided in Appendix G.

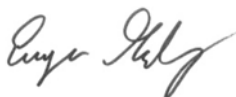
CONCLUSIONS AND RECOMMENDATIONS

The subject property is zoned industrial and being remediated under NYSDEC oversight. Remaining soil impacts are being addressed by an Environmental Easement/Deed Restriction that limits future use/development of the property to industrial uses only. ERM requests closure of NYSDEC Spill Number 1711490 as soon as possible as the remaining impacts do not pose a significant threat to public health because:

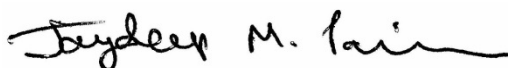
- 1) the compounds detected in soil are all below the IU SCOs;
- 2) there were no compounds detected in groundwater above the applicable criteria; and
- 3) the area of remaining soil impacts is covered with a 6-inch concrete floor that will be maintained as requirement of the Environmental Easement/Deed Restriction.

We look forward to your expeditious reply.

Sincerely,



Eugene Gabay
Principal Consultant

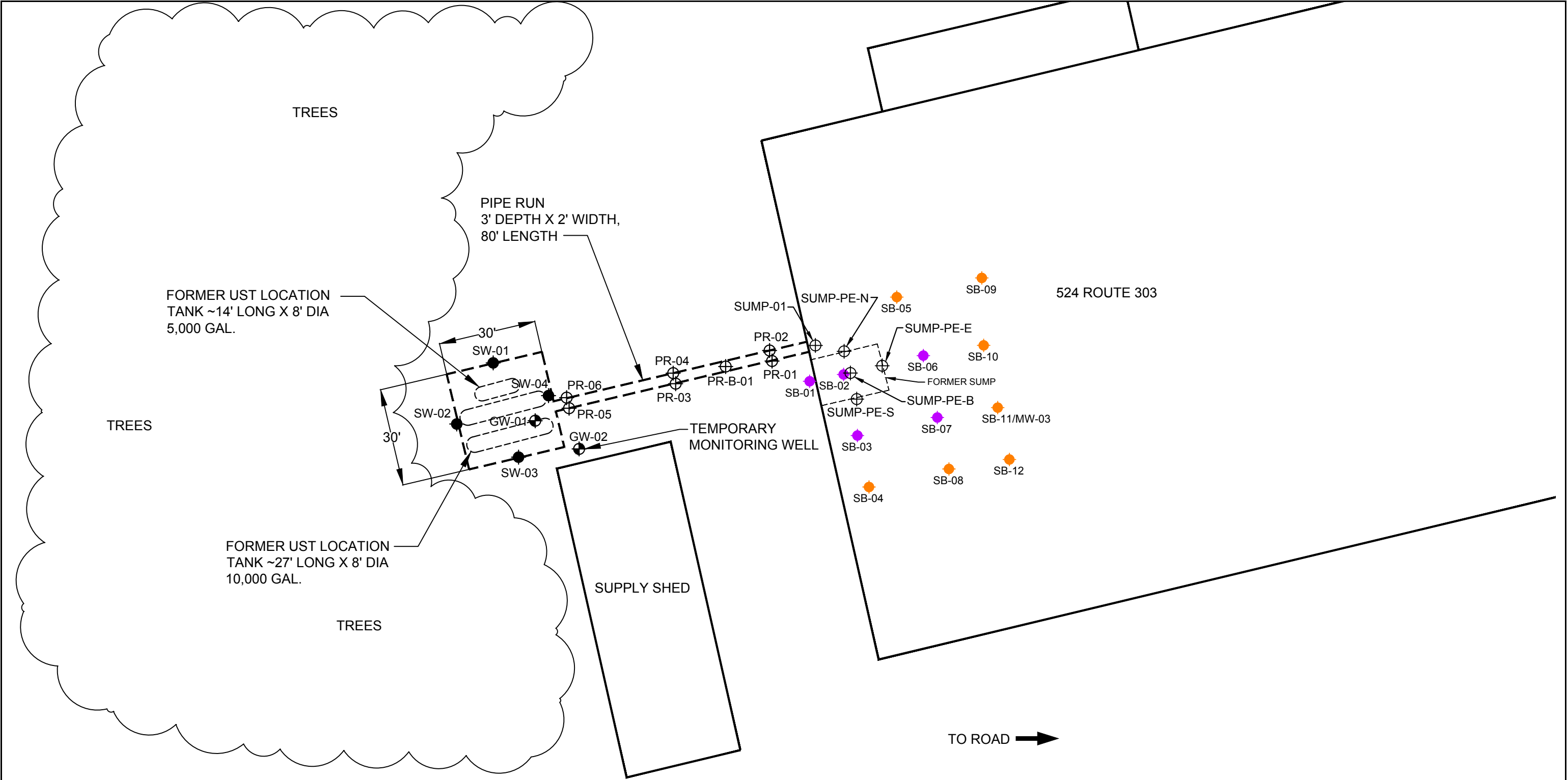


Jaydeep Parikh
Partner

Attachments

cc: Paul Gallagher – Avery Dennison
Danial R. Lanners - NYSDEC

FIGURE



LEGEND

- ⊕ GROUNDWATER SAMPLE LOCATION
- ⊕ SOLID SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- PRIMARY SOIL BORING LOCATIONS
- SECONDARY SOIL BORING LOCATIONS



TITLE			
SAMPLE LOCATION MAP 524 ROUTE 303 ORANGEBURG, NY 10962			
PREPARED FOR			
AVERY DENNISON CORPORATION			
Environmental Resources Management		FIGURE	
DRAWN BY		1	
EMF	SCALE GRAPHIC	DATE 5/9/18	JOB NO. 0438688

TABLE

Table 1 - Summary of Tank Grave Results

Avery Dennison

524 Route 300, Orangeburg, New York

Client Sample ID:	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	SW-01	SW-02	SW-03	SW-04
Lab Sample ID:					JC59040-4	JC59040-5	JC59040-6	JC59040-7
Date Sampled:					1/16/2018	1/16/2018	1/16/2018	1/16/2018
Matrix:					Soil	Soil	Soil	Soil
Depth					8'	6'	6'	4'
MS Volatiles (SW846 8260C)								
Acetone	ug/kg	50	1000000	50	ND (5.2)	ND (7.7)	ND (6.0)	ND (5.4)
Benzene	ug/kg	60	89000	60	ND (0.087)	ND (0.13)	ND (0.10)	ND (0.091)
Bromochloromethane	ug/kg	-	-	-	ND (0.35)	ND (0.52)	ND (0.40)	ND (0.37)
Bromodichloromethane	ug/kg	-	-	-	ND (0.20)	ND (0.29)	ND (0.23)	ND (0.21)
Bromoform	ug/kg	-	-	-	ND (0.25)	ND (0.37)	ND (0.29)	ND (0.26)
Bromomethane	ug/kg	-	-	-	ND (0.57)	ND (0.84)	ND (0.65)	ND (0.60)
2-Butanone (MEK)	ug/kg	120	1000000	120	ND (4.2)	ND (6.3)	ND (4.9)	ND (4.4)
Carbon disulfide	ug/kg	-		2700	ND (0.49)	ND (0.73)	ND (0.57)	ND (0.52)
Carbon tetrachloride	ug/kg	760	44000	760	ND (0.53)	ND (0.78)	ND (0.60)	ND (0.55)
Chlorobenzene	ug/kg	1100	1000000	1100	ND (0.23)	ND (0.35)	ND (0.27)	ND (0.24)
Chloroethane	ug/kg	-		1900	ND (0.73)	ND (1.1)	ND (0.84)	ND (0.77)
Chloroform	ug/kg	370	700000	370	ND (0.26)	ND (0.39)	ND (0.30)	ND (0.27)
Chloromethane	ug/kg	-	-	-	ND (0.80)	ND (1.2)	ND (0.92)	ND (0.84)
Cyclohexane	ug/kg	-	-	-	ND (0.28)	ND (0.41)	ND (0.32)	ND (0.29)
1,2-Dibromo-3-chloropropane	ug/kg	-	-	-	ND (0.55)	ND (0.81)	ND (0.63)	ND (0.57)
Dibromochloromethane	ug/kg	-			ND (0.31)	ND (0.46)	ND (0.35)	ND (0.32)
1,2-Dibromoethane	ug/kg	-	-	-	ND (0.20)	ND (0.29)	ND (0.23)	ND (0.21)
1,2-Dichlorobenzene	ug/kg	1100	1000000	1100	ND (0.42)	ND (0.62)	ND (0.48)	ND (0.44)
1,3-Dichlorobenzene	ug/kg	2400	560000	2400	ND (0.23)	ND (0.34)	ND (0.27)	ND (0.24)
1,4-Dichlorobenzene	ug/kg	1800	250000	1800	ND (0.39)	ND (0.58)	ND (0.45)	ND (0.41)
Dichlorodifluoromethane	ug/kg	-	-	-	ND (0.49)	ND (0.73)	ND (0.57)	ND (0.52)
1,1-Dichloroethane	ug/kg	270	480000	270	ND (0.21)	ND (0.31)	ND (0.24)	ND (0.22)
1,2-Dichloroethane	ug/kg	20	60000	20	ND (0.15)	ND (0.22)	ND (0.17)	ND (0.15)
1,1-Dichloroethene	ug/kg	330	1000000	330	ND (0.57)	ND (0.85)	ND (0.66)	ND (0.60)
cis-1,2-Dichloroethene	ug/kg	250	1000000	250	ND (0.33)	ND (0.48)	ND (0.37)	ND (0.34)
trans-1,2-Dichloroethene	ug/kg	190	1000000	190	ND (0.47)	ND (0.70)	ND (0.54)	ND (0.50)
1,2-Dichloropropane	ug/kg	-			ND (0.32)	ND (0.48)	ND (0.37)	ND (0.34)
cis-1,3-Dichloropropene	ug/kg	-	-	-	ND (0.31)	ND (0.46)	ND (0.36)	ND (0.33)
trans-1,3-Dichloropropene	ug/kg	-	-	-	ND (0.19)	ND (0.28)	ND (0.22)	ND (0.20)
Ethylbenzene	ug/kg	1000	780000	1000	ND (0.23)	ND (0.35)	ND (0.27)	ND (0.25)
Freon 113	ug/kg	-		6000	ND (0.55)	ND (0.81)	ND (0.63)	ND (0.57)
2-Hexanone	ug/kg	-	-	-	ND (2.3)	ND (3.4)	ND (2.6)	ND (2.4)
Isopropylbenzene	ug/kg	-		2300	ND (0.20)	ND (0.30)	ND (0.23)	ND (0.21)
Methyl Acetate	ug/kg	-	-	-	ND (2.1)	ND (3.0)	ND (2.4)	ND (2.1)
Methylcyclohexane	ug/kg	-	-	-	ND (0.44)	ND (0.66)	ND (0.51)	ND (0.46)
Methyl Tert Butyl Ether	ug/kg	930	1000000	930	ND (0.35)	ND (0.51)	ND (0.40)	ND (0.36)
4-Methyl-2-pentanone(MIBK)	ug/kg	-		1000	ND (1.5)	ND (2.2)	ND (1.7)	ND (1.5)
Methylene chloride	ug/kg	50	1000000	50	ND (2.0)	ND (3.0)	ND (2.3)	ND (2.1)
Styrene	ug/kg	-			ND (0.40)	ND (0.60)	ND (0.46)	ND (0.42)
1,1,2,2-Tetrachloroethane	ug/kg	-		600	ND (0.21)	ND (0.31)	ND (0.24)	ND (0.22)
Tetrachloroethene	ug/kg	1300	300000	1300	ND (0.52)	ND (0.76)	ND (0.59)	ND (0.54)
Toluene	ug/kg	700	1000000	700	ND (0.44)	ND (0.66)	ND (0.51)	6.1
1,2,3-Trichlorobenzene	ug/kg	-			ND (0.81)	ND (1.2)	ND (0.93)	ND (0.85)
1,2,4-Trichlorobenzene	ug/kg	-		3400	ND (0.81)	ND (1.2)	ND (0.93)	ND (0.85)
1,1,1-Trichloroethane	ug/kg	680	1000000	680	ND (0.47)	ND (0.70)	ND (0.54)	ND (0.49)
1,1,2-Trichloroethane	ug/kg	-	-	-	ND (0.34)	ND (0.50)	ND (0.39)	ND (0.36)
Trichloroethene	ug/kg	470	400000	470	ND (0.44)	ND (0.66)	ND (0.51)	ND (0.46)
Trichlorofluoromethane	ug/kg	-	-	-	ND (0.39)	ND (0.58)	ND (0.45)	ND (0.41)
Vinyl chloride	ug/kg	20	27000	20	ND (0.62)	ND (0.92)	ND (0.71)	ND (0.65)

Table 1 - Summary of Tank Grave Results

Avery Dennison

524 Route 300, Orangeburg, New York

Client Sample ID:	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	SW-01	SW-02	SW-03	SW-04
Lab Sample ID:					JC59040-4	JC59040-5	JC59040-6	JC59040-7
Date Sampled:					1/16/2018	1/16/2018	1/16/2018	1/16/2018
Matrix:					Soil	Soil	Soil	Soil
Depth					8'	6'	6'	4'
m,p-Xylene	ug/kg	260	1000000	1600	ND (0.44)	ND (0.66)	ND (0.51)	ND (0.47)
o-Xylene	ug/kg	260	1000000	1600	ND (0.20)	ND (0.30)	ND (0.23)	ND (0.21)
Xylene (total)	ug/kg	260	1000000	1600	ND (0.20)	ND (0.30)	ND (0.23)	ND (0.21)
GC Volatiles (SW846-8015C (DAI))								
Isopropyl Alcohol	ug/kg	-	-	-	ND (100)	ND (110)	ND (100)	ND (110)
ND (#)	Not detected at or above the method detection limit (MDL).							
Detected	Compound was detected at the indicated concentration.							
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).							

J = Estimated value. The compound was detected at a concentration below the reporting limit (RL), but greater than the MDL.

NS = No standard

Table 2 - Summary of Results from Transfer Lines and SUMP-01

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	PR-01	DUP011718 (PR-01)	PR-02	PR-03	PR-04	PR-05	PR-06	PR-B-01	SUMP-01
Lab Sample ID:					JC59041-1	JC59041-5	JC59041-2	JC59041-3	JC59041-4	JC59041-10	JC59041-11	JC59041-9	JC59041-7
Date Sampled:					1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018
Matrix:					Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Depth					1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	3'	3'
MS Volatiles (SW846 8260C)													
Acetone	ug/kg	50	1000000	50	ND (6.3)	ND (7.2)	ND (6.8)	ND (5.7)	ND (6.5)	ND (6.0)	ND (5.9)	ND (5.8)	ND (6.1)
Benzene	ug/kg	60	89000	60	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.095)	ND (0.11)	ND (0.10)	ND (0.099)	ND (0.097)	ND (0.10)
Bromochloromethane	ug/kg	-	-	-	ND (0.43)	ND (0.49)	ND (0.46)	ND (0.39)	ND (0.44)	ND (0.41)	ND (0.40)	ND (0.39)	ND (0.41)
Bromodichloromethane	ug/kg	-	-	-	ND (0.24)	ND (0.27)	ND (0.26)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.23)
Bromoform	ug/kg	-	-	-	ND (0.31)	ND (0.35)	ND (0.33)	ND (0.28)	ND (0.32)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.30)
Bromomethane	ug/kg	-	-	-	ND (0.69)	ND (0.79)	ND (0.74)	ND (0.62)	ND (0.71)	ND (0.66)	ND (0.65)	ND (0.63)	ND (0.67)
2-Butanone (MEK)	ug/kg	120	1000000	120	ND (5.2)	ND (5.9)	6.9 J	ND (4.6)	ND (5.3)	ND (4.9)	ND (4.8)	ND (4.7)	ND (5.0)
Carbon disulfide	ug/kg	-		2700	ND (0.60)	ND (0.69)	ND (0.65)	ND (0.54)	ND (0.62)	ND (0.57)	ND (0.56)	ND (0.55)	ND (0.58)
Carbon tetrachloride	ug/kg	760	44000	760	ND (0.64)	ND (0.73)	ND (0.69)	ND (0.58)	ND (0.66)	ND (0.61)	ND (0.60)	ND (0.59)	ND (0.62)
Chlorobenzene	ug/kg	1100	1000000	1100	ND (0.28)	ND (0.32)	ND (0.30)	ND (0.26)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.27)
Chloroethane	ug/kg	-		1900	ND (0.89)	ND (1.0)	ND (0.96)	ND (0.80)	ND (0.91)	ND (0.84)	ND (0.84)	ND (0.82)	ND (0.86)
Chloroform	ug/kg	370	700000	370	ND (0.32)	ND (0.36)	ND (0.34)	ND (0.29)	ND (0.33)	ND (0.30)	ND (0.30)	ND (0.29)	ND (0.31)
Chloromethane	ug/kg	-	-	-	ND (0.97)	ND (1.1)	ND (1.0)	ND (0.87)	ND (1.0)	ND (0.92)	ND (0.91)	ND (0.89)	ND (0.94)
Cyclohexane	ug/kg	-	-	-	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.30)	ND (0.35)	ND (0.32)	ND (0.32)	ND (0.31)	ND (0.33)
1,2-Dibromo-3-chloropropane	ug/kg	-	-	-	ND (0.67)	ND (0.76)	ND (0.71)	ND (0.60)	ND (0.68)	ND (0.63)	ND (0.62)	ND (0.61)	ND (0.64)
Dibromochloromethane	ug/kg	-			ND (0.38)	ND (0.43)	ND (0.40)	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.35)	ND (0.34)	ND (0.36)
1,2-Dibromoethane	ug/kg	-	-	-	ND (0.24)	ND (0.28)	ND (0.26)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.23)
1,2-Dichlorobenzene	ug/kg	1100	1000000	1100	ND (0.51)	ND (0.58)	ND (0.55)	ND (0.46)	ND (0.52)	ND (0.48)	ND (0.48)	ND (0.47)	ND (0.49)
1,3-Dichlorobenzene	ug/kg	2400	560000	2400	ND (0.28)	ND (0.32)	ND (0.30)	ND (0.25)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.27)
1,4-Dichlorobenzene	ug/kg	1800	250000	1800	ND (0.47)	ND (0.54)	ND (0.51)	ND (0.42)	ND (0.48)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.46)
Dichlorodifluoromethane	ug/kg	-	-	-	ND (0.60)	ND (0.68)	ND (0.64)	ND (0.54)	ND (0.61)	ND (0.57)	ND (0.56)	ND (0.55)	ND (0.58)
1,1-Dichloroethane	ug/kg	270	480000	270	ND (0.26)	ND (0.29)	ND (0.27)	ND (0.23)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.25)
1,2-Dichloroethane	ug/kg	20	60000	20	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.16)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)
1,1-Dichloroethene	ug/kg	330	1000000	330	ND (0.70)	ND (0.80)	ND (0.75)	ND (0.63)	ND (0.71)	ND (0.66)	ND (0.65)	ND (0.64)	ND (0.67)
cis-1,2-Dichloroethene	ug/kg	250	1000000	250	ND (0.40)	ND (0.45)	ND (0.43)	ND (0.36)	ND (0.41)	ND (0.38)	ND (0.37)	ND (0.36)	ND (0.38)
trans-1,2-Dichloroethene	ug/kg	190	1000000	190	ND (0.58)	ND (0.66)	ND (0.62)	ND (0.52)	ND (0.59)	ND (0.55)	ND (0.54)	ND (0.53)	ND (0.56)
1,2-Dichloropropane	ug/kg	-			ND (0.39)	ND (0.45)	ND (0.42)	ND (0.35)	ND (0.40)	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.38)
cis-1,3-Dichloropropene	ug/kg	-	-	-	ND (0.38)	ND (0.43)	ND (0.41)	ND (0.34)	ND (0.39)	ND (0.36)	ND (0.36)	ND (0.35)	ND (0.37)
trans-1,3-Dichloropropene	ug/kg	-	-	-	ND (0.23)	ND (0.27)	ND (0.25)	ND (0.21)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.23)
Ethylbenzene	ug/kg	1000	780000	1000	ND (0.29)	ND (0.33)	ND (0.31)	ND (0.26)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.27)
Freon 113	ug/kg	-		6000	ND (0.67)	ND (0.76)	ND (0.71)	ND (0.60)	ND (0.68)	ND (0.63)	ND (0.62)	ND (0.61)	ND (0.64)
2-Hexanone	ug/kg	-	-	-	ND (2.8)	ND (3.1)	ND (3.0)	ND (2.5)	ND (2.8)	ND (2.6)	ND (2.6)	ND (2.5)	ND (2.7)
Isopropylbenzene	ug/kg	-		2300	ND (0.25)	ND (0.28)	ND (0.26)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.24)
Methyl Acetate	ug/kg	-	-	-	ND (2.5)	ND (2.8)	ND (2.7)	ND (2.2)	ND (2.6)	ND (2.4)	ND (2.3)	ND (2.3)	ND (2.4)
Methylcyclohexane	ug/kg	-	-	-	ND (0.54)	ND (0.61)	ND (0.58)	ND (0.48)	ND (0.55)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)
Methyl Tert Butyl Ether	ug/kg	930	1000000	930	ND (0.42)	ND (0.48)	ND (0.45)	ND (0.38)	ND (0.43)	ND (0.40)	ND (0.40)	ND (0.39)	ND (0.41)
4-Methyl-2-pentanone(MIBK)	ug/kg	-		1000	ND (1.8)	ND (2.0)	ND (1.9)	ND (1.6)	ND (1.8)	ND (1.7)	ND (1.7)	ND (1.6)	ND (1.7)
Methylene chloride	ug/kg	50	1000000	50	ND (2.5)	ND (2.8)	ND (2.6)	ND (2.2)	ND (2.5)	ND (2.3)	ND (2.3)	ND (2.3)	ND (2.4)
Styrene	ug/kg	-			ND (0.49)	ND (0.56)	ND (0.52)	ND (0.44)	ND (0.50)	ND (0.46)	ND (0.46)	ND (0.45)	ND (0.47)
1,1,2,2-Tetrachloroethane	ug/kg	-		600	ND (0.25)	ND (0.29)	ND (0.27)	ND (0.23)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.24)
Tetrachloroethene	ug/kg	1300	300000	1300	ND (0.63)	ND (0.72)	ND (0.67)	ND (0.56)	ND (0.64)	ND (0.60)	ND (0.59)	ND (0.58)	ND (0.61)

Table 2 - Summary of Results from Transfer Lines and SUMP-01

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCCR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	PR-01	DUP011718 (PR-01)	PR-02	PR-03	PR-04	PR-05	PR-06	PR-B-01	SUMP-01
Lab Sample ID:					JC59041-1	JC59041-5	JC59041-2	JC59041-3	JC59041-4	JC59041-10	JC59041-11	JC59041-9	JC59041-7
Date Sampled:					1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018	1/17/2018
Matrix:					Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Depth					1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	3'	3'
Toluene	ug/kg	700	1000000	700	ND (0.54)	ND (0.62)	ND (0.58)	0.9	ND (0.55)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)
1,2,3-Trichlorobenzene	ug/kg	-			ND (0.99)	ND (1.1)	ND (1.1)	ND (0.89)	ND (1.0)	ND (0.93)	ND (0.93)	ND (0.90)	ND (0.95)
1,2,4-Trichlorobenzene	ug/kg	-		3400	ND (0.99)	ND (1.1)	ND (1.1)	ND (0.89)	ND (1.0)	ND (0.93)	ND (0.93)	ND (0.90)	ND (0.95)
1,1,1-Trichloroethane	ug/kg	680	1000000	680	ND (0.57)	ND (0.65)	ND (0.61)	ND (0.51)	ND (0.59)	ND (0.54)	ND (0.54)	ND (0.52)	ND (0.55)
1,1,2-Trichloroethane	ug/kg	-	-	-	ND (0.42)	ND (0.47)	ND (0.44)	ND (0.37)	ND (0.42)	ND (0.39)	ND (0.39)	ND (0.38)	ND (0.40)
Trichloroethene	ug/kg	470	400000	470	ND (0.54)	ND (0.62)	ND (0.58)	ND (0.48)	ND (0.55)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)
Trichlorofluoromethane	ug/kg	-	-	-	ND (0.47)	ND (0.54)	ND (0.51)	ND (0.43)	ND (0.49)	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.46)
Vinyl chloride	ug/kg	20	27000	20	ND (0.76)	ND (0.86)	ND (0.81)	ND (0.68)	ND (0.77)	ND (0.72)	ND (0.71)	ND (0.69)	ND (0.73)
m,p-Xylene	ug/kg	260	1000000	1600	ND (0.54)	ND (0.62)	ND (0.58)	ND (0.49)	ND (0.55)	ND (0.51)	ND (0.51)	ND (0.49)	ND (0.52)
o-Xylene	ug/kg	260	1000000	1600	ND (0.25)	ND (0.28)	ND (0.27)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)
Xylene (total)	ug/kg	260	1000000	1600	ND (0.25)	ND (0.28)	ND (0.27)	ND (0.22)	ND (0.25)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)
GC Volatiles (SW846-8015C (DAI))													
Isopropyl Alcohol	ug/kg	-	-	-	ND (99)	ND (110)	ND (100)	ND (94)	ND (94)	ND (95)	ND (95)	ND (99)	ND (94)
ND (#)	Not detected at or above the method detection limit (MDL).												
Detected	Compound was detected at the indicated concentration.												
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).												

J = Estimated value. The compound was detected at a concentration below the reporting limit (RL), but greater than the MDL.

NS = No standard

Table 3 - Summary of Ground Water Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:		NYS AWQS & GV ^{1,2}	GW-01	GW-02	DUP011618 (GW-02)	GW-03	DUP052418 (GW-03)
Lab Sample ID:			JC59040-8	JC59040-9	JC59040-10	JC66770-1	JC66770-2
Date Sampled:			1/16/2018	1/16/2018	1/16/2018	5/24/2018	5/24/2018
Matrix:			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
MS Volatiles (SW846 8260C)							
Acetone	ug/l	50	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Benzene	ug/l	1	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Bromochloromethane	ug/l	5	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
Bromodichloromethane	ug/l	50	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Bromoform	ug/l	50	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
Bromomethane	ug/l	5	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
2-Butanone (MEK)	ug/l	50	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)
Carbon disulfide	ug/l	60	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Carbon tetrachloride	ug/l	5	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
Chlorobenzene	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Chloroethane	ug/l	5	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)
Chloroform	ug/l	7	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
Chloromethane	ug/l	5	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Cyclohexane	ug/l	NS	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)
1,2-Dibromo-3-chloropropane	ug/l	0.04	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)
Dibromochloromethane	ug/l	50	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
1,2-Dibromoethane	ug/l	0.0006	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichlorobenzene	ug/l	3	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,3-Dichlorobenzene	ug/l	3	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,4-Dichlorobenzene	ug/l	3	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Dichlorodifluoromethane	ug/l	5	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
1,1-Dichloroethane	ug/l	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloroethane	ug/l	0.6	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethene	ug/l	5	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)
cis-1,2-Dichloroethene	ug/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
trans-1,2-Dichloroethene	ug/l	5	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
1,2-Dichloropropane	ug/l	1	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/l	0.4	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
trans-1,3-Dichloropropene	ug/l	0.4	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Ethylbenzene	ug/l	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Freon 113	ug/l	5	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
2-Hexanone	ug/l	50	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)	ND (3.3)
Isopropylbenzene	ug/l	5	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Methyl Acetate	ug/l	NS	ND (3.1)	ND (3.1)	ND (3.1)	ND (3.1)	ND (3.1)
Methylcyclohexane	ug/l	NS	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
Methyl Tert Butyl Ether	ug/l	10	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
4-Methyl-2-pentanone(MIBK)	ug/l	NS	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Methylene chloride	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	ug/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
1,1,2,2-Tetrachloroethane	ug/l	5	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Tetrachloroethene	ug/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Toluene	ug/l	5	1.9	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,2,3-Trichlorobenzene	ug/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	ug/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	ug/l	5	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
1,1,2-Trichloroethane	ug/l	1	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Trichloroethene	ug/l	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Trichlorofluoromethane	ug/l	5	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Vinyl chloride	ug/l	2	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)
m,p-Xylene	ug/l	5	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
o-Xylene	ug/l	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Xylene (total)	ug/l	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
GC Volatiles (SW846-8015C (DAI))							
Isopropyl Alcohol	ug/l	-	ND (54)	ND (54)	ND (54)	ND (54)	ND (54)

#	1. AWQS - NYS Ambient Groundwater Quality Standards for Class GA (potable) ground water as listed in TOGS 1.1.1 (June 1998) and in 6 NYCRR 703.5.
#	2. AWQGV - NYS Ambient Groundwater Quality Guidance Values for Class GA (potable) ground water as listed in TOGS 1.1.1 (June 1998) and in 6 NYCRR 703.5.
ND (#)	Not detected at or above the method detection limit (MDL).
Detected	Compound was detected at the indicated concentration.
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).

J = Estimated value. The compound was detected at a concentration below the reporting limit (RL), but greater than the MDL.

NS = No standard

Table 4A - Summary of Backfill Sample Results

Avery Dennison
524 Route 300, Orangeberg, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	BM-01 (Discrete 1)	BM-04 (Discrete 2)	BM-07 (Discrete 3)	BM-10 (Discrete 4)
Lab Sample ID:				JC58956-1	JC58956-2	JC58956-3	JC58956-4
Date Sampled:				1/15/2018	1/15/2018	1/15/2018	1/15/2018
Matrix:				Solid	Solid	Solid	Solid
MS Volatiles (SW846 8260C)							
Acetone	ug/kg	50	50	ND (5.7)	ND (5.4)	ND (5.9)	ND (5.2)
Benzene	ug/kg	60	60	ND (0.096)	ND (0.091)	ND (0.098)	ND (0.086)
Bromochloromethane	ug/kg	NS	NS	ND (0.39)	ND (0.37)	ND (0.40)	ND (0.35)
Bromodichloromethane	ug/kg	NS	NS	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.20)
Bromoform	ug/kg	NS	NS	ND (0.28)	ND (0.26)	ND (0.29)	ND (0.25)
Bromomethane	ug/kg	NS	NS	ND (0.63)	ND (0.59)	ND (0.65)	ND (0.56)
2-Butanone (MEK)	ug/kg	120	120	ND (4.7)	ND (4.4)	ND (4.8)	ND (4.2)
Carbon disulfide	ug/kg	NS	2700	ND (0.54)	ND (0.52)	ND (0.56)	ND (0.49)
Carbon tetrachloride	ug/kg	760	760	ND (0.58)	ND (0.55)	ND (0.60)	ND (0.52)
Chlorobenzene	ug/kg	1100	1100	ND (0.26)	ND (0.24)	ND (0.27)	ND (0.23)
Chloroethane	ug/kg	NS	1900	ND (0.81)	ND (0.76)	ND (0.83)	ND (0.73)
Chloroform	ug/kg	370	370	ND (0.29)	ND (0.27)	ND (0.30)	ND (0.26)
Chloromethane	ug/kg	NS	NS	ND (0.88)	ND (0.83)	ND (0.91)	ND (0.79)
Cyclohexane	ug/kg	NS	NS	ND (0.31)	ND (0.29)	ND (0.32)	ND (0.28)
chloropropane	ug/kg	NS	NS	ND (0.60)	ND (0.57)	ND (0.62)	ND (0.54)
Dibromochloromethane	ug/kg	NS	NS	ND (0.34)	ND (0.32)	ND (0.35)	ND (0.31)
1,2-Dibromoethane	ug/kg	NS	NS	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)
1,2-Dichlorobenzene	ug/kg	1100	1100	ND (0.46)	ND (0.44)	ND (0.47)	ND (0.42)
1,3-Dichlorobenzene	ug/kg	2400	2400	ND (0.26)	ND (0.24)	ND (0.26)	ND (0.23)
1,4-Dichlorobenzene	ug/kg	1800	1800	ND (0.43)	ND (0.41)	ND (0.44)	ND (0.39)
Dichlorodifluoromethane	ug/kg	NS	NS	ND (0.54)	ND (0.51)	ND (0.56)	ND (0.49)
1,1-Dichloroethane	ug/kg	270	270	ND (0.23)	ND (0.22)	ND (0.24)	ND (0.21)
1,2-Dichloroethane	ug/kg	20	20	ND (0.16)	ND (0.15)	ND (0.17)	ND (0.14)
1,1-Dichloroethene	ug/kg	330	330	ND (0.63)	ND (0.60)	ND (0.65)	ND (0.57)
cis-1,2-Dichloroethene	ug/kg	250	250	ND (0.36)	ND (0.34)	ND (0.37)	ND (0.32)
trans-1,2-Dichloroethene	ug/kg	190	190	ND (0.52)	ND (0.49)	ND (0.54)	ND (0.47)
1,2-Dichloropropane	ug/kg	NS	NS	ND (0.35)	ND (0.34)	ND (0.37)	ND (0.32)
cis-1,3-Dichloropropene	ug/kg	NS	NS	ND (0.34)	ND (0.32)	ND (0.35)	ND (0.31)
trans-1,3-Dichloropropene	ug/kg	NS	NS	ND (0.21)	ND (0.20)	ND (0.22)	ND (0.19)
Ethylbenzene	ug/kg	1000	1000	ND (0.26)	ND (0.24)	ND (0.27)	ND (0.23)
Freon 113	ug/kg	NS	6000	ND (0.60)	ND (0.57)	ND (0.62)	ND (0.54)
2-Hexanone	ug/kg	NS	NS	ND (2.5)	ND (2.4)	ND (2.6)	ND (2.2)
Isopropylbenzene	ug/kg	NS	2300	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)
Methyl Acetate	ug/kg	NS	NS	ND (2.3)	ND (2.1)	ND (2.3)	ND (2.0)
Methylcyclohexane	ug/kg	NS	NS	ND (0.49)	ND (0.46)	ND (0.50)	ND (0.44)
Methyl Tert Butyl Ether	ug/kg	930	930	ND (0.38)	ND (0.36)	ND (0.39)	ND (0.34)
4-Methyl-2-pentanone(MIBK)	ug/kg	NS	1000	ND (1.6)	ND (1.5)	ND (1.7)	ND (1.4)
Methylene chloride	ug/kg	50	50	ND (2.2)	ND (2.1)	ND (2.3)	ND (2.0)
Styrene	ug/kg	NS	NS	ND (0.44)	ND (0.42)	ND (0.46)	ND (0.40)
1,1,2,2-Tetrachloroethane	ug/kg	NS	600	ND (0.23)	ND (0.21)	ND (0.23)	ND (0.20)
Tetrachloroethene	ug/kg	1300	1300	ND (0.57)	ND (0.54)	ND (0.59)	ND (0.51)
Toluene	ug/kg	700	700	1.4	ND (0.46)	ND (0.50)	ND (0.44)
1,2,3-Trichlorobenzene	ug/kg	NS	NS	ND (0.89)	ND (0.85)	ND (0.92)	ND (0.80)
1,2,4-Trichlorobenzene	ug/kg	NS	3400	ND (0.89)	ND (0.85)	ND (0.92)	ND (0.80)
1,1,1-Trichloroethane	ug/kg	680	680	ND (0.52)	ND (0.49)	ND (0.53)	ND (0.47)
1,1,2-Trichloroethane	ug/kg	NS	NS	ND (0.38)	ND (0.36)	ND (0.39)	ND (0.34)
Trichloroethene	ug/kg	470	470	ND (0.49)	ND (0.46)	ND (0.50)	ND (0.44)
Trichlorofluoromethane	ug/kg	NS	NS	ND (0.43)	ND (0.41)	ND (0.44)	ND (0.39)
Vinyl chloride	ug/kg	20	20	ND (0.68)	ND (0.65)	ND (0.70)	ND (0.62)
m,p-Xylene	ug/kg	260	1600	ND (0.49)	ND (0.46)	ND (0.50)	ND (0.44)
o-Xylene	ug/kg	260	1600	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)
Xylene (total)	ug/kg	260	1600	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.20)
ND (#)	Not detected at or above the method detection limit (MDL).						
Detected	Compound was detected at the indicated concentration.						
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).						

J = Estimated value. The compound was detected at a concentration below the reporting limit (RL), but greater than the MDL.

NS = No standard

Table 4B - Summary of Backfill Sample Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	BM-25 (Composite 1)	BM-26 (Composite 2)
Lab Sample ID:				JC58956-25	JC58956-26
Date Sampled:				1/15/2018	1/15/2018
Matrix:				Solid	Solid
MS Semi-volatiles (SW846 8270D)					
2-Chlorophenol	ug/kg	NS	NS	ND (18)	ND (17)
4-Chloro-3-methyl phenol	ug/kg	NS	NS	ND (22)	ND (22)
2,4-Dichlorophenol	ug/kg	NS	400	ND (30)	ND (30)
2,4-Dimethylphenol	ug/kg	NS	NS	ND (63)	ND (63)
2,4-Dinitrophenol	ug/kg	NS	200	ND (130)	ND (130)
4,6-Dinitro-o-cresol	ug/kg	NS	NS	ND (38)	ND (38)
2-Methylphenol	ug/kg	330	330	ND (23)	ND (22)
3&4-Methylphenol	ug/kg	NS	NS	ND (29)	ND (29)
2-Nitrophenol	ug/kg	NS	300	ND (24)	ND (23)
4-Nitrophenol	ug/kg	NS	100	ND (95)	ND (94)
Pentachlorophenol	ug/kg	800	800	ND (33)	ND (33)
Phenol	ug/kg	330	330	ND (19)	ND (18)
2,3,4,6-Tetrachlorophenol	ug/kg	NS	NS	ND (24)	ND (23)
2,4,5-Trichlorophenol	ug/kg	NS	100	ND (27)	ND (26)
2,4,6-Trichlorophenol	ug/kg	NS	NS	ND (21)	ND (21)
Acenaphthene	ug/kg	20000	98000	ND (12)	ND (12)
Acenaphthylene	ug/kg	100000	107000	ND (18)	ND (18)
Acetophenone	ug/kg	NS	NS	ND (7.7)	ND (7.6)
Anthracene	ug/kg	100000	1000000	ND (22)	ND (22)
Atrazine	ug/kg	NS	NS	ND (15)	ND (15)
Benzo(a)anthracene	ug/kg	1000	1000	ND (10)	ND (10)
Benzo(a)pyrene	ug/kg	1000	22000	ND (16)	ND (16)
Benzo(b)fluoranthene	ug/kg	1000	1700	ND (16)	ND (16)
Benzo(g,h,i)perylene	ug/kg	100000	1000000	ND (18)	ND (18)
Benzo(k)fluoranthene	ug/kg	800	1700	ND (17)	ND (16)
4-Bromophenyl phenyl ether	ug/kg	NS	NS	ND (14)	ND (14)
Butyl benzyl phthalate	ug/kg	NS	122000	ND (8.7)	ND (8.6)
1,1'-Biphenyl	ug/kg	NS	NS	ND (4.9)	ND (4.8)
Benzaldehyde	ug/kg	NS	NS	ND (8.8)	ND (8.7)
2-Chloronaphthalene	ug/kg	NS	NS	ND (8.5)	ND (8.4)
4-Chloroaniline	ug/kg	NS	220	ND (13)	ND (13)
Carbazole	ug/kg	NS	NS	ND (5.2)	ND (5.1)
Caprolactam	ug/kg	NS	NS	ND (14)	ND (14)
Chrysene	ug/kg	1000	1000	ND (11)	ND (11)
bis(2-Chloroethoxy)methane	ug/kg	NS	NS	ND (7.6)	ND (7.5)
bis(2-Chloroethyl)ether	ug/kg	NS	NS	ND (15)	ND (15)
bis(2-Chloroisopropyl)ether	ug/kg	NS	NS	ND (13)	ND (13)
4-Chlorophenyl phenyl ether	ug/kg	NS	NS	ND (12)	ND (11)
2,4-Dinitrotoluene	ug/kg	NS	NS	ND (11)	ND (11)
2,6-Dinitrotoluene	ug/kg	NS	1000	ND (18)	ND (18)
3,3'-Dichlorobenzidine	ug/kg	NS	NS	ND (30)	ND (29)
1,4-Dioxane	ug/kg	100	100	ND (24)	ND (23)
Dibenzo(a,h)anthracene	ug/kg	330	1000000	ND (16)	ND (16)
Dibenzofuran	ug/kg	7000	6200	ND (14)	ND (14)
Di-n-butyl phthalate	ug/kg	NS	8100	ND (5.8)	ND (5.7)
Di-n-octyl phthalate	ug/kg	NS	120000	ND (8.9)	ND (8.8)

Table 4B - Summary of Backfill Sample Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	BM-25 (Composite 1)	BM-26 (Composite 2)
Lab Sample ID:				JC58956-25	JC58956-26
Date Sampled:				1/15/2018	1/15/2018
Matrix:				Solid	Solid
Diethyl phthalate	ug/kg	NS	7100	ND (7.6)	ND (7.5)
Dimethyl phthalate	ug/kg	NS	27000	ND (6.3)	ND (6.3)
bis(2-Ethylhexyl)phthalate	ug/kg	NS	435000	ND (8.3)	ND (8.2)
Fluoranthene	ug/kg	100000	1000000	ND (16)	ND (16)
Fluorene	ug/kg	30000	386000	ND (16)	ND (16)
Hexachlorobenzene	ug/kg	330	1400	ND (9.0)	ND (8.9)
Hexachlorobutadiene	ug/kg	NS	NS	ND (14)	ND (14)
Hexachlorocyclopentadiene	ug/kg	NS	NS	ND (14)	ND (14)
Hexachloroethane	ug/kg	NS	NS	ND (18)	ND (17)
Indeno(1,2,3-cd)pyrene	ug/kg	500	8200	ND (17)	ND (17)
Isophorone	ug/kg	NS	4400	ND (7.6)	ND (7.5)
2-Methylnaphthalene	ug/kg	NS	36400	ND (8.0)	ND (8.0)
2-Nitroaniline	ug/kg	NS	400	ND (8.4)	ND (8.3)
3-Nitroaniline	ug/kg	NS	500	ND (8.9)	ND (8.8)
4-Nitroaniline	ug/kg	NS	NS	ND (9.2)	ND (9.1)
Naphthalene	ug/kg	12000	12000	ND (10)	ND (9.9)
Nitrobenzene	ug/kg	NS	170	ND (14)	ND (14)
N-Nitroso-di-n-propylamine	ug/kg	NS	NS	ND (10)	ND (10)
N-Nitrosodiphenylamine	ug/kg	NS	NS	ND (13)	ND (13)
Phenanthrene	ug/kg	100000	1000000	ND (12)	ND (12)
Pyrene	ug/kg	100000	1000000	17.9 J	ND (11)
1,2,4,5-Tetrachlorobenzene	ug/kg	NS	NS	ND (9.0)	ND (8.9)
GC/LC Semi-volatiles (SW846 8081B)					
Aldrin	ug/kg	5	190	ND (0.58)	ND (0.58)
alpha-BHC	ug/kg	20	20	ND (0.57)	ND (0.57)
beta-BHC	ug/kg	36	90	ND (0.63)	ND (0.64)
delta-BHC	ug/kg	40	250	ND (0.67)	ND (0.68)
gamma-BHC (Lindane)	ug/kg	100	100	ND (0.52)	ND (0.52)
alpha-Chlordane	ug/kg	94	2900	ND (0.57)	ND (0.57)
gamma-Chlordane	ug/kg	NS	14000	ND (0.32)	ND (0.32)
Dieldrin	ug/kg	5	100	ND (0.48)	ND (0.48)
4,4'-DDD	ug/kg	3.3	14000	ND (0.64)	ND (0.65)
4,4'-DDE	ug/kg	3.3	17000	ND (0.61)	ND (0.62)
4,4'-DDT	ug/kg	3.3	136000	ND (0.62)	ND (0.62)
Endrin	ug/kg	14	60	ND (0.54)	ND (0.55)
Endosulfan sulfate	ug/kg	2400	1000000	ND (0.55)	ND (0.55)
Endrin aldehyde	ug/kg	NS	NS	ND (0.40)	ND (0.40)
Endosulfan-I	ug/kg	2400	102000	ND (0.40)	ND (0.41)
Endosulfan-II	ug/kg	2400	102000	ND (0.44)	ND (0.44)
Heptachlor	ug/kg	42	380	ND (0.60)	ND (0.61)
Heptachlor epoxide	ug/kg	NS	20	ND (0.49)	ND (0.49)
Methoxychlor	ug/kg	NS	900000	ND (0.56)	ND (0.56)
Endrin ketone	ug/kg	NS	NS	ND (0.51)	ND (0.51)
Toxaphene	ug/kg	NS	NS	ND (16)	ND (16)
GC/LC Semi-volatiles (SW846 8082A)					
Aroclor 1016	ug/kg	100	3200	ND (14)	ND (14)
Aroclor 1221	ug/kg	100	3200	ND (14)	ND (14)

Table 4B - Summary of Backfill Sample Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:		NY SCO - Unrestricted Use (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	BM-25 (Composite 1)	BM-26 (Composite 2)
Lab Sample ID:				JC58956-25	JC58956-26
Date Sampled:				1/15/2018	1/15/2018
Matrix:				Solid	Solid
Aroclor 1232	ug/kg	100	3200	ND (9.4)	ND (9.4)
Aroclor 1242	ug/kg	100	3200	ND (5.6)	ND (5.6)
Aroclor 1248	ug/kg	100	3200	ND (21)	ND (21)
Aroclor 1254	ug/kg	100	3200	ND (8.6)	ND (8.7)
Aroclor 1260	ug/kg	100	3200	ND (11)	ND (11)
Aroclor 1268	ug/kg	100	3200	ND (5.2)	ND (5.2)
Aroclor 1262	ug/kg	100	3200	14.4 J	7.5 J
GC/LC Semi-volatiles (SW846 8151A)					
2,4-D	ug/kg	NS	500	ND (12)	N (12)
2,4,5-TP (Silvex)	ug/kg	3800	3800	ND (3.0)	N (2.9)
2,4,5-T	ug/kg	NS	1900	ND (1.6)	N (1.6)
Metals Analysis					
Arsenic	mg/kg	13	16	3.5	2.6
Barium	mg/kg	350	820	62.3	53.6
Beryllium	mg/kg	7.2	47	0.49	0.48
Cadmium	mg/kg	2.5	7.5	<0.53	<0.53
Chromium	mg/kg	NS	NS	18.9	19
Copper	mg/kg	50	1720	36.2	62.8
Lead	mg/kg	63	450	7.9	5.1
Manganese	mg/kg	1600	2000	603	662
Mercury	mg/kg	0.18	0.73	<0.035	<0.034
Nickel	mg/kg	30	130	21.1	23.1
Selenium	mg/kg	3.9	4	<2.1	<2.1
Silver	mg/kg	2	8.3	<0.53	<1.1
Zinc	mg/kg	109	2480	40.5	44.6
General Chemistry					
Chromium, Hexavalent	mg/kg	1	19	<0.43	<0.42
Chromium, Trivalent	mg/kg	30	ns	18.9 ^e	19
Cyanide	mg/kg	27	40	<0.19	<0.13
Redox Potential Vs H2	mv	NS	NS	242	231
Solids, Percent	%	NS	NS	93.3	94.7
pH	su	NS	NS	7.93	18.9 +10:F134

ND (#)	Not detected at or above the method detection limit (MDL).
Detected	Compound was detected at the indicated concentration.
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).

J = Estimated value. The compound was detected at a concentration below the reporting limit (RL), but greater than the MDL.

NS = No standard

Table 5 - Summary of SUMP-02 Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	SUMP-02
Lab Sample ID:		JC61548-1
Date Sampled:		2/28/2018
Matrix:		Solid
MS Volatiles (SW846 8260C)		
Acetone	ug/kg	ND (150000)
Benzene	ug/kg	ND (2400)
Bromochloromethane	ug/kg	ND (9900)
Bromodichloromethane	ug/kg	ND (5500)
Bromoform	ug/kg	ND (7100)
Bromomethane	ug/kg	ND (16000)
2-Butanone (MEK)	ug/kg	474000
Carbon disulfide	ug/kg	ND (14000)
Carbon tetrachloride	ug/kg	ND (15000)
Chlorobenzene	ug/kg	ND (6500)
Chloroethane	ug/kg	ND (21000)
Chloroform	ug/kg	ND (7300)
Chloromethane	ug/kg	ND (22000)
Cyclohexane	ug/kg	ND (7800)
1,2-Dibromo-3-chloropropane	ug/kg	ND (15000)
Dibromochloromethane	ug/kg	ND (8700)
1,2-Dibromoethane	ug/kg	ND (5600)
1,2-Dichlorobenzene	ug/kg	ND (12000)
1,3-Dichlorobenzene	ug/kg	ND (6500)
1,4-Dichlorobenzene	ug/kg	ND (11000)
Dichlorodifluoromethane	ug/kg	ND (14000)
1,1-Dichloroethane	ug/kg	ND (5900)
1,2-Dichloroethane	ug/kg	ND (4100)
1,1-Dichloroethene	ug/kg	ND (16000)
cis-1,2-Dichloroethene	ug/kg	ND (9100)
trans-1,2-Dichloroethene	ug/kg	ND (13000)
1,2-Dichloropropane	ug/kg	ND (9000)
cis-1,3-Dichloropropene	ug/kg	ND (8700)
trans-1,3-Dichloropropene	ug/kg	ND (5400)
Ethylbenzene	ug/kg	91600
Freon 113	ug/kg	ND (15000)
2-Hexanone	ug/kg	ND (63000)
Isopropylbenzene	ug/kg	ND (5600)
Methyl Acetate	ug/kg	ND (57000)
Methylcyclohexane	ug/kg	ND (12000)
Methyl Tert Butyl Ether	ug/kg	ND (9700)
4-Methyl-2-pentanone(MIBK)	ug/kg	ND (41000)
Methylene chloride	ug/kg	ND (57000)
Styrene	ug/kg	ND (11000)
1,1,2,2-Tetrachloroethane	ug/kg	ND (5800)
Tetrachloroethene	ug/kg	ND (14000)
Toluene	ug/kg	37600000
1,2,3-Trichlorobenzene	ug/kg	ND (23000)

Table 5 - Summary of SUMP-02 Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	SUMP-02
Lab Sample ID:		JC61548-1
Date Sampled:		2/28/2018
Matrix:		Solid
1,2,4-Trichlorobenzene	ug/kg	ND (23000)
1,1,1-Trichloroethane	ug/kg	ND (13000)
1,1,2-Trichloroethane	ug/kg	ND (9500)
Trichloroethene	ug/kg	ND (12000)
Trichlorofluoromethane	ug/kg	ND (11000)
Vinyl chloride	ug/kg	ND (17000)
m,p-Xylene	ug/kg	352000
o-Xylene	ug/kg	137000
Xylene (total)	ug/kg	489000
GC Volatiles (SW846-8015C (DAI))		
Isopropyl Alcohol	ug/kg	18800
MS Semi-volatiles (SW846 8270D)		
2-Chlorophenol	ug/kg	ND (420)
4-Chloro-3-methyl phenol	ug/kg	ND (520)
2,4-Dichlorophenol	ug/kg	ND (730)
2,4-Dimethylphenol	ug/kg	ND (1500)
2,4-Dinitrophenol	ug/kg	ND (3200)
4,6-Dinitro-o-cresol	ug/kg	ND (920)
2-Methylphenol	ug/kg	16100
3&4-Methylphenol	ug/kg	4090
2-Nitrophenol	ug/kg	ND (570)
4-Nitrophenol	ug/kg	ND (2300)
Pentachlorophenol	ug/kg	ND (800)
Phenol	ug/kg	6080
2,3,4,6-Tetrachlorophenol	ug/kg	ND (570)
2,4,5-Trichlorophenol	ug/kg	ND (640)
2,4,6-Trichlorophenol	ug/kg	ND (510)
Acenaphthene	ug/kg	ND (300)
Acenaphthylene	ug/kg	ND (430)
Acetophenone	ug/kg	ND (180)
Anthracene	ug/kg	ND (520)
Atrazine	ug/kg	ND (370)
Benzo(a)anthracene	ug/kg	ND (240)
Benzo(a)pyrene	ug/kg	ND (390)
Benzo(b)fluoranthene	ug/kg	ND (380)
Benzo(g,h,i)perylene	ug/kg	ND (430)
Benzo(k)fluoranthene	ug/kg	ND (400)
4-Bromophenyl phenyl ether	ug/kg	ND (330)
Butyl benzyl phthalate	ug/kg	ND (210)
1,1'-Biphenyl	ug/kg	ND (120)
Benzaldehyde	ug/kg	ND (210)
2-Chloronaphthalene	ug/kg	ND (200)
4-Chloroaniline	ug/kg	ND (310)
Carbazole	ug/kg	ND (120)

Table 5 - Summary of SUMP-02 Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	SUMP-02
Lab Sample ID:		JC61548-1
Date Sampled:		2/28/2018
Matrix:		Solid
Caprolactam	ug/kg	ND (340)
Chrysene	ug/kg	ND (270)
bis(2-Chloroethoxy)methane	ug/kg	ND (180)
bis(2-Chloroethyl)ether	ug/kg	ND (370)
2,2'-Oxybis(1-chloropropane)	ug/kg	ND (310)
4-Chlorophenyl phenyl ether	ug/kg	ND (280)
2,4-Dinitrotoluene	ug/kg	ND (270)
2,6-Dinitrotoluene	ug/kg	ND (430)
3,3'-Dichlorobenzidine	ug/kg	ND (710)
1,4-Dioxane	ug/kg	ND (570)
Dibenzo(a,h)anthracene	ug/kg	ND (380)
Dibenzofuran	ug/kg	ND (350)
Di-n-butyl phthalate	ug/kg	ND (140)
Di-n-octyl phthalate	ug/kg	ND (210)
Diethyl phthalate	ug/kg	ND (180)
Dimethyl phthalate	ug/kg	ND (150)
bis(2-Ethylhexyl)phthalate	ug/kg	2690
Fluoranthene	ug/kg	ND (380)
Fluorene	ug/kg	ND (390)
Hexachlorobenzene	ug/kg	ND (220)
Hexachlorobutadiene	ug/kg	ND (340)
Hexachlorocyclopentadiene	ug/kg	ND (340)
Hexachloroethane	ug/kg	ND (420)
Indeno(1,2,3-cd)pyrene	ug/kg	ND (400)
Isophorone	ug/kg	ND (180)
2-Methylnaphthalene	ug/kg	ND (190)
2-Nitroaniline	ug/kg	ND (200)
3-Nitroaniline	ug/kg	ND (210)
4-Nitroaniline	ug/kg	ND (220)
Naphthalene	ug/kg	ND (240)
Nitrobenzene	ug/kg	ND (330)
N-Nitroso-di-n-propylamine	ug/kg	ND (250)
N-Nitrosodiphenylamine	ug/kg	ND (310)
Phenanthrene	ug/kg	ND (290)
Pyrene	ug/kg	ND (270)
1,2,4,5-Tetrachlorobenzene	ug/kg	ND (220)
Metals Analysis		
Arsenic	mg/kg	ND (2.5)
Barium	mg/kg	ND (25)
Cadmium	mg/kg	2.9
Chromium	mg/kg	11.3
Lead	mg/kg	2.5
Mercury	mg/kg	ND (0.042)
Selenium	mg/kg	ND (2.5)

Table 5 - Summary of SUMP-02 Results

Avery Dennison

524 Route 300, Orangeberg, New York

Client Sample ID:	Units	SUMP-02
Lab Sample ID:		JC61548-1
Date Sampled:		2/28/2018
Matrix:		Solid
Silver	mg/kg	ND (0.63)

ND (#)	Not detected at or above the method detection limit (MDL).
Detected	Compound was detected at the indicated concentration.

Table 6 - Summary of SUMP-02 Excavation Sidewall and Bottom Results (Hits Only)

Avery Dennison

524 Route 300, Orangeberg, New York

Client ID:	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375- 6 12/06)	Sump-PE-S	Sump-PE-N	Sump-PE-E	Sump-PE-B
Lab ID:					SC44789-01RE1	SC44789-03	SC44789-04	SC44789-02
Sampled:					3/14/18	3/14/18	3/14/18	3/14/18
Matrix:					Soil	Soil	Soil	Soil
Depth					1'	1'	1'	2.5'
MS Volatiles (SW846 8260C)								
Acetone	ug/kg	50	1000000	50	3540	ND (16.7)	127	259
2-Butanone (MEK)	ug/kg	120	1000000	120	3880	ND (7.48)	844	2060
Ethylbenzene	ug/kg	1000	780000	1000	182	ND (0.60)	ND (0.64)	17.7
Toluene	ug/kg	700	1000000	700	15000	5.45	834	1990
m,p-Xylene	ug/kg	NS	NS	NS	781	ND (0.75)	60.2	74.5
o-Xylene	ug/kg	NS	NS	NS	313	ND (1.17)	14.9	28.8
Xylene (total)	ug/kg	260	1000000	1600	1094	ND	75.1	103.3

ND (#)	Not detected at or above the method detection limit (MDL).
Detected	Compound was detected at the indicated concentration.
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).

NS = No standard

Table 7 - Summary of SUMP Delineation Results (Hits Only)

Avery Dennison
524 Route 300, Orangeberg, New York

Sample Location	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	SB-01	SB-01	SB-02	SB-02	SB-03	SB-03	SB-03	SB-04	SB-04	SB-07	SB-07	SB-07	
Laboratory ID					SC46117-26	SC46117-27	SC46117-34	SC46117-35	SC46117-23	SC46117-24	SC46117-25	SC46117-05RE1	SC46117-06	SC46117-20	SC46117-21	SC46117-22	
Sample Date					4/26/2018	4/26/2018	4/26/2018	4/26/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	
Matrix					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth					2	4	4.5	7.5	1	4	8	1	4	1	4	1	4
SW8015D MOD (mg/kg)																	
Ethanol	ug/kg	NS	NS	NS	<5.9	6.1	6.5	<5.8	<5.6	<6.0				<5.6	<5.6		
Methanol	ug/kg	NS	NS	NS	<5.9	15	<5.7	<5.8	<5.6	<6.0				<5.6	<5.6		
SW846 8260C (ug/kg)																	
Acetone	ug/kg	50	1000000	50	<55.9	32.1	<61.8	<68.0	437	83.4	<50.3	372	28.2	309	154	<46.5	
2-Butanone (MEK)	ug/kg	120	1000000	120	<11.2	<10.9	<12.4	<13.6	33.0	<13.5		<121		57.6	86.9		
Ethylbenzene	ug/kg	1000	780000	1000	<5.59	<5.44	<6.18	0.98	<7.21	2.92		<60.6		<6.09	<4.89		
Methylene chloride	ug/kg	50	1000000	50	5.06	5.11	5.53	10.7	16.4	4.99		<121		7.00	4.66		
Toluene	ug/kg	700	1000000	700	<5.59	<5.44	<6.18	32.9	18.6	5.01		33.3		3.36	27.4		
m,p-Xylene	ug/kg	NS	NS	NS	<11.2	<10.9	<12.4	6.21	<14.4	5.88		<121		<12.2	<9.79		
o-Xylene	ug/kg	NS	NS	NS	<5.59	<5.44	<6.18	2.35	<7.21	<6.73		<60.6		<6.09	<4.89		
Xylene (total)	ug/kg	260	1000000	1600													
Tert-Butanol / butyl alcohol	ug/kg	NS	NS	NS	<55.9	<54.4	<61.8	<68.0	<72.1	<67.3		<606		72.0	<48.9		
Ethanol	ug/kg	NS	NS	NS	<1120	<1090	<1240	<1360	470	<1350		<12100		<1220	<979		
ND (#)		Not detected at or above the method detection limit (MDL).															
Detected		Compound was detected at the indicated concentration.															
[Exceed]		Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).															

NS = No standard

Table 7 - Summary of SUMP Delineation Results (Hits Only)

Avery Dennison
524 Route 300, Orangeberg, New York

Sample Location	Units	NY SCO - Unrestricted Use (6 NYCCR 375-6 12/06)	NY SCO - Industrial w/CP-51 (10/10) (6 NYCRR 375-6 12/06)	NY SCO - Protection of Groundwater (6 NYCCR 375-6 12/06)	SB-08	SB-08	SB-11	SB-11	SB-12	SB-12
Laboratory ID					SC46117-08	SC46117-09	SC46117-14	SC46117-15	SC46117-11	SC46117-12
Sample Date					4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018
Matrix					Soil	Soil	Soil	Soil	Soil	Soil
Depth					1	4	1	4	1	4
SW8015D MOD (mg/kg)										
Ethanol	ug/kg	NS	NS	NS						
Methanol	ug/kg	NS	NS	NS						
SW846 8260C (ug/kg)										
Acetone	ug/kg	50	1000000	50	251	<75.5	85.9	<62.2	341	106
2-Butanone (MEK)	ug/kg	120	1000000	120						
Ethylbenzene	ug/kg	1000	780000	1000						
Methylene chloride	ug/kg	50	1000000	50						
Toluene	ug/kg	700	1000000	700						
m,p-Xylene	ug/kg	NS	NS	NS						
o-Xylene	ug/kg	NS	NS	NS						
Xylene (total)	ug/kg	260	1000000	1600						
Tert-Butanol / butyl alcohol	ug/kg	NS	NS	NS						
Ethanol	ug/kg	NS	NS	NS						
ND (#)	Not detected at or above the method detection limit (MDL).									
Detected	Compound was detected at the indicated concentration.									
[Exceed]	Results flagged as "Exceed" if any of the selected criteria exceeded (most stringent).									

NS = No standard

APPENDIX A
NYSDEC TANK CLOSURE
APPROVAL

New York State Department of Environmental Conservation
Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation or Closure



This form provides notice of an upcoming tank installation and/or closure per 6 NYCRR Sections 613-1.9(h) and (f), 613-2.6(b) (1), 613-3.5 (b) (1) and 613-4.5 (b) (1) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Sections 596.2(f) and (h) of the Chemical Bulk Storage (CBS) Regulations. Submit the completed form to the Department's Regional Office at least 30 days prior to action for PBS tank installation * and permanent closure** ; at least 3 days prior for CBS tank installation ***. For CBS permanent tank closure, a minimum of 3 day prior notice is recommended. **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613 or 598/599). Any questions, call the Department's Regional Office. Information on the Chemical and Petroleum Bulk Storage Programs be found at: <http://www.dec.ny.gov/chemical/287.html>

*not required for temporary tank system

** unless in response to corrective action

*** unless immediate action is required

Check Applicable Program: PBS X CBS

Facility PBS or CBS Registration No. 3-000101

Site Name: Avery Dennison, Information & Brand Management	Contractor: AES Remedial Contracting, LLC
Site Address: 524 Route 303, Orangeburg, NY 10962	Address: 132 Town Line Road, Southington, CT 06489
Site Address (cont):	Address(cont):
Site Contact: William Reilley	Contact: Ken Sweetman
Phone Number: 845-680-3890	Fax Number: 860-620-1791
Email Address: william.reilley@averydennison.com	Email Address: info@aesremedial.com

Tank Number	Type of Action (Close & Remove, Close in Place, Install)	Proposed Date (mm/dd/yy)	Tank Location (Aboveground or Underground)	Capacity (Gallons)	Spills/Leaks? (Yes/No w/Spill # if Yes)	Reason for Action
00012	Close and Remove	12/11/17	underground	10,000	no	Facility Closure
00013	Close and Remove	12/11/17	underground	10,000	no	Facility Closure

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): John Turner

Title: Plant Manager

Signature [Signature] Date 12-5-17

From: Moore, Edward L (DEC) [<mailto:edward.moore@dec.ny.gov>]
Sent: Tuesday, December 05, 2017 3:18 PM
To: Jason Fernet <Jason.Fernet@erm.com>
Cc: william.reilley@averydennison.com; John Turner (john.turner@averydennison.com)
<john.turner@averydennison.com>; paul.gallagher@averydennison.com; David DeRosier
(david.derosier@averydennison.com) <david.derosier@averydennison.com>; Jaydeep Parikh
<jaydeep.parikh@erm.com>; Karl Klotzbach <Karl.Klotzbach@erm.com>
Subject: RE: Tank Closure Notification - Avery Dennison Reg No. 3-000101

Good plan. Thanks.

Anchor pads could be left in place. Just select your post excavation samples accordingly.

From: Jason Fernet [<mailto:Jason.Fernet@erm.com>]
Sent: Tuesday, December 05, 2017 3:02 PM
To: Moore, Edward L (DEC) <edward.moore@dec.ny.gov>
Cc: william.reilley@averydennison.com; John Turner (john.turner@averydennison.com)
<john.turner@averydennison.com>; paul.gallagher@averydennison.com; David DeRosier
(david.derosier@averydennison.com) <david.derosier@averydennison.com>; Jaydeep Parikh
<jaydeep.parikh@erm.com>; Karl Klotzbach <Karl.Klotzbach@erm.com>
Subject: Tank Closure Notification - Avery Dennison Reg No. 3-000101

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Edward, please find attached the required pre-work notification for a CBS tank closure at the Avery Dennison facility located 524 Route 303 in Orangeburg, New York. The facility has two 10,000 gallon solvent (MEK and Toluene) USTs that are currently registered in the CBS program. These two tanks along with a 5,000 gallon isopropanol tank will all be closed and removed. The cleaning and preparatory work is anticipated to begin the week of 12-11-17 with ultimate tank removal during the week of 12-18-17. A more detailed schedule will be provided once it has been finalized.

Also can you clarify if it is required to remove the concrete anchor pad (if present below UST) when closing the USTs or can they be left in place?

Thanks and let me know if you have any questions

Jason Fernet, PE, LEP
Principal Consultant

ERM
99 East River Drive, 3rd. Floor | East Hartford, CT | 06108
T 860-466-8517 | M 860-604-4372
E jason.fernet@erm.com | W www.erm.com



APPENDIX B
DATA DELIVERABLE

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Avery Dennison, 524 Route 303, Orangeburg, NY

0438688

SGS Job Number: JC61548

Sampling Date: 02/28/18

Report to:

ERM, Inc.

eugene.gabay@erm.com

ATTN: Eugene Gabay

Total number of pages in report: 28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

ERM, Inc.

Job No: JC61548

Avery Dennison, 524 Route 303, Orangeburg, NY
Project No: 0438688

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC61548-1	02/28/18	10:30 JH	02/28/18	SO	Solid	SUMP-02
JC61548-2	02/28/18	10:40 JH	02/28/18	AQ	Field Blank Soil	FB022818
JC61548-3	02/28/18	10:40 JH	02/28/18	AQ	Trip Blank Soil	TB022818

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc.

Job No JC61548

Site: Avery Dennison, 524 Route 303, Orangeburg, NY

Report Date 3/8/2018 12:16:46 PM

On 02/28/2018, 1 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC61548 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ

Batch ID: V3B6386

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61393-1MS, JC61393-1MSD were used as the QC samples indicated.
- JC61548-2 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JC61548-2 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC61548-3 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC61548-3 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JC61548-3 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC61548-2 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

Matrix: SO

Batch ID: V3V1642

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61481-10MS, JC61481-10MSD were used as the QC samples indicated.
- JC61548-1: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Matrix: SO

Batch ID: VD10319

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61430-4MS, JC61430-4MSD were used as the QC samples indicated.
- JC61548-1: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC61548-1 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JC61548-1 for 2-Butanone (MEK): Associated CCV outside of control limits high.
- JC61548-1 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.

Thursday, March 08, 2018

Page 1 of 3

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ

Batch ID: OP10350

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: OP10349

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61469-3MS, JC61469-3MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Fluoranthene, Pyrene are outside of in house control limits.
- RPD(s) for MSD for 4-Chloroaniline, Butyl benzyl phthalate, N-Nitroso-di-n-propylamine are outside of in house control limits for sample OP10349-MSD.
- JC61548-1: Dilution required due to matrix interference.
- JC61548-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JC61548-1 for Benzaldehyde: Associated CCV outside of control limits low.

GC Volatiles By Method SW846-8015C (DAI)

Matrix: AQ

Batch ID: GGH5982

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC61486-1MS, JC61486-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Isopropyl Alcohol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Isopropyl Alcohol are outside control limits for sample JC61486-1MSD. Outside control limits due to matrix interference.

Matrix: SO

Batch ID: GGH5984

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61548-1MS, JC61548-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Isopropyl Alcohol are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Isopropyl Alcohol are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JC61548-1MS for Hexanol: Outside control limits due to matrix interference.
- JC61548-1 for Hexanol: Outside control limits due to matrix interference. Confirmed by MS/MSD.
- JC61548-1MSD for Hexanol: Outside control limits due to matrix interference.

Metals Analysis By Method SW846 6010C

Matrix: AQ

Batch ID: MP6003

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61545-3MS, JC61545-3MSD, JC61545-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Silver are outside control limits for sample MP6003-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Samples(s) JC61548-2: New York does not offer 3010A certification for antimony and silver. The laboratory is certified for method 3010A (Acid Digestion for Total Metals) for all other metals and is certified for the associated analytical methods of 6010C (ICP Analysis) and 6020A (ICP-MS Analysis). New York does certify for method 3005A (Acid Digestion for Total Recoverable or Dissolved Metals) for antimony and silver and the laboratory holds that certification, but that provides total recoverable rather than total metals results.

Matrix: SO

Batch ID: MP6005

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61533-1MS, JC61533-1MSD, JC61533-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Arsenic are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Arsenic are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Lead are outside control limits for sample MP6005-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ

Batch ID: MP6014

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61599-3MS, JC61599-3MSD were used as the QC samples for metals.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP5994

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC61469-5MS, JC61469-5MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN76972

- The data for SM2540 G-97 meets quality control requirements.

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

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

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

Thursday, March 08, 2018

Page 3 of 3

Summary of Hits

Page 1 of 1

Job Number: JC61548
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 02/28/18



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

JC61548-1 SUMP-02

2-Butanone (MEK) ^a	474000	230000	120000	ug/kg	SW846 8260C
Ethylbenzene ^b	91600	23000	6600	ug/kg	SW846 8260C
Toluene ^b	37600000	230000	120000	ug/kg	SW846 8260C
m,p-Xylene ^b	352000	23000	12000	ug/kg	SW846 8260C
o-Xylene ^b	137000	23000	5700	ug/kg	SW846 8260C
Xylene (total) ^b	489000	23000	5700	ug/kg	SW846 8260C
2-Methylphenol ^c	16100	1700	550	ug/kg	SW846 8270D
3&4-Methylphenol ^c	4090	1700	700	ug/kg	SW846 8270D
Phenol ^c	6080	1700	450	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate ^c	2690	1700	200	ug/kg	SW846 8270D
Isopropyl Alcohol	18800	130	120	ug/kg	SW846-8015C (DAI)
Cadmium	2.9	0.63		mg/kg	SW846 6010C
Chromium	11.3	1.3		mg/kg	SW846 6010C
Lead	2.5	2.5		mg/kg	SW846 6010C

JC61548-2 FB022818

No hits reported in this sample.

JC61548-3 TB022818

No hits reported in this sample.

- (a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory. Associated CCV outside of control limits high.
- (b) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- (c) Dilution required due to matrix interference.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	D255758.D	200	03/05/18 15:14	TDN	03/01/18 09:00	n/a	VD10319
Run #2 ^a	3V40793.D	2000	03/06/18 10:21	TDN	03/01/18 09:00	n/a	V3V1642

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.5 g	10.0 ml	100 ul
Run #2	6.5 g	10.0 ml	100 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	230000	150000	ug/kg	
71-43-2	Benzene	ND	11000	2400	ug/kg	
74-97-5	Bromochloromethane	ND	110000	9900	ug/kg	
75-27-4	Bromodichloromethane	ND	45000	5500	ug/kg	
75-25-2	Bromoform	ND	110000	7100	ug/kg	
74-83-9	Bromomethane	ND	110000	16000	ug/kg	
78-93-3	2-Butanone (MEK) ^c	474000	230000	120000	ug/kg	
75-15-0	Carbon disulfide	ND	45000	14000	ug/kg	
56-23-5	Carbon tetrachloride	ND	45000	15000	ug/kg	
108-90-7	Chlorobenzene	ND	45000	6500	ug/kg	
75-00-3	Chloroethane	ND	110000	21000	ug/kg	
67-66-3	Chloroform	ND	45000	7300	ug/kg	
74-87-3	Chloromethane	ND	110000	22000	ug/kg	
110-82-7	Cyclohexane	ND	45000	7800	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	45000	15000	ug/kg	
124-48-1	Dibromochloromethane	ND	45000	8700	ug/kg	
106-93-4	1,2-Dibromoethane	ND	23000	5600	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	23000	12000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	23000	6500	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	23000	11000	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	110000	14000	ug/kg	
75-34-3	1,1-Dichloroethane	ND	23000	5900	ug/kg	
107-06-2	1,2-Dichloroethane	ND	23000	4100	ug/kg	
75-35-4	1,1-Dichloroethene	ND	23000	16000	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	23000	9100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	23000	13000	ug/kg	
78-87-5	1,2-Dichloropropane	ND	45000	9000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	45000	8700	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	45000	5400	ug/kg	
100-41-4	Ethylbenzene	91600	23000	6600	ug/kg	
76-13-1	Freon 113	ND	110000	15000	ug/kg	
591-78-6	2-Hexanone ^b	ND	110000	63000	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	45000	5600	ug/kg	
79-20-9	Methyl Acetate	ND	110000	57000	ug/kg	
108-87-2	Methylcyclohexane	ND	45000	12000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	23000	9700	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	110000	41000	ug/kg	
75-09-2	Methylene chloride	ND	110000	57000	ug/kg	
100-42-5	Styrene	ND	45000	11000	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	45000	5800	ug/kg	
127-18-4	Tetrachloroethene	ND	45000	14000	ug/kg	
108-88-3	Toluene	37600000 d	230000	120000	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	110000	23000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	110000	23000	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	45000	13000	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	45000	9500	ug/kg	
79-01-6	Trichloroethene	ND	23000	12000	ug/kg	
75-69-4	Trichlorofluoromethane	ND	110000	11000	ug/kg	
75-01-4	Vinyl chloride	ND	45000	17000	ug/kg	
	m,p-Xylene	352000	23000	12000	ug/kg	
95-47-6	o-Xylene	137000	23000	5700	ug/kg	
1330-20-7	Xylene (total)	489000	23000	5700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	94%	75-127%
17060-07-0	1,2-Dichloroethane-D4	97%	108%	75-130%
2037-26-5	Toluene-D8	103%	102%	80-120%
460-00-4	4-Bromofluorobenzene	100%	98%	79-127%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits high.

(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z129789.D	2	03/05/18 08:50	CS	03/01/18 07:45	OP10349	EZ6402
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	1700	420	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	4300	520	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	4300	730	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	4300	1500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4300	3200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4300	920	ug/kg	
95-48-7	2-Methylphenol	16100	1700	550	ug/kg	
	3&4-Methylphenol	4090	1700	700	ug/kg	
88-75-5	2-Nitrophenol	ND	4300	570	ug/kg	
100-02-7	4-Nitrophenol	ND	8600	2300	ug/kg	
87-86-5	Pentachlorophenol	ND	3400	800	ug/kg	
108-95-2	Phenol	6080	1700	450	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4300	570	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	4300	640	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	4300	510	ug/kg	
83-32-9	Acenaphthene	ND	860	300	ug/kg	
208-96-8	Acenaphthylene	ND	860	430	ug/kg	
98-86-2	Acetophenone	ND	4300	180	ug/kg	
120-12-7	Anthracene	ND	860	520	ug/kg	
1912-24-9	Atrazine ^b	ND	1700	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	860	240	ug/kg	
50-32-8	Benzo(a)pyrene	ND	860	390	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	860	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	860	430	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	860	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1700	330	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1700	210	ug/kg	
92-52-4	1,1'-Biphenyl	ND	1700	120	ug/kg	
100-52-7	Benzaldehyde ^c	ND	4300	210	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1700	200	ug/kg	
106-47-8	4-Chloroaniline	ND	4300	310	ug/kg	
86-74-8	Carbazole	ND	1700	120	ug/kg	

ND = Not detected MDL = Method Detection Limit

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RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	1700	340	ug/kg	
218-01-9	Chrysene	ND	860	270	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1700	180	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1700	370	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	1700	310	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	280	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	860	270	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	860	430	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1700	710	ug/kg	
123-91-1	1,4-Dioxane	ND	860	570	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	860	380	ug/kg	
132-64-9	Dibenzofuran	ND	1700	350	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1700	140	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1700	210	ug/kg	
84-66-2	Diethyl phthalate	ND	1700	180	ug/kg	
131-11-3	Dimethyl phthalate	ND	1700	150	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	2690	1700	200	ug/kg	
206-44-0	Fluoranthene	ND	860	380	ug/kg	
86-73-7	Fluorene	ND	860	390	ug/kg	
118-74-1	Hexachlorobenzene	ND	1700	220	ug/kg	
87-68-3	Hexachlorobutadiene	ND	860	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	8600	340	ug/kg	
67-72-1	Hexachloroethane	ND	4300	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	860	400	ug/kg	
78-59-1	Isophorone	ND	1700	180	ug/kg	
91-57-6	2-Methylnaphthalene	ND	860	190	ug/kg	
88-74-4	2-Nitroaniline	ND	4300	200	ug/kg	
99-09-2	3-Nitroaniline	ND	4300	210	ug/kg	
100-01-6	4-Nitroaniline	ND	4300	220	ug/kg	
91-20-3	Naphthalene	ND	860	240	ug/kg	
98-95-3	Nitrobenzene	ND	1700	330	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1700	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	4300	310	ug/kg	
85-01-8	Phenanthrene	ND	860	290	ug/kg	
129-00-0	Pyrene	ND	860	270	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	4300	220	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		23-115%

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	64%		27-114%
118-79-6	2,4,6-Tribromophenol	58%		19-152%
4165-60-0	Nitrobenzene-d5	50%		26-134%
321-60-8	2-Fluorobiphenyl	59%		39-124%
1718-51-0	Terphenyl-d14	51%		36-134%

- (a) Dilution required due to matrix interference.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated CCV outside of control limits low.

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

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

Report of Analysis

Client Sample ID:	SUMP-02						
Lab Sample ID:	JC61548-1					Date Sampled:	02/28/18
Matrix:	SO - Solid					Date Received:	02/28/18
Method:	SW846-8015C (DAI)					Percent Solids:	77.6
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH113357.D	1	03/06/18 07:14	XPL	n/a	n/a	GGH5984
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	18800	130	120	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	92%		52-141%
111-27-3	Hexanol	260% ^a		52-141%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SUMP-02	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-1	Date Received:	02/28/18
Matrix:	SO - Solid	Percent Solids:	77.6
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 2.5	2.5	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Barium	< 25	25	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Cadmium	2.9	0.63	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Chromium	11.3	1.3	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Lead	2.5	2.5	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Mercury	< 0.042	0.042	mg/kg	1	03/01/18	03/01/18	DP	SW846 7471B ¹ SW846 7471B ³
Selenium	< 2.5	2.5	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴
Silver	< 0.63	0.63	mg/kg	1	03/01/18	03/02/18	MET	SW846 6010C ² SW846 3050B ⁴

- (1) Instrument QC Batch: MA43899
(2) Instrument QC Batch: MA43909
(3) Prep QC Batch: MP5994
(4) Prep QC Batch: MP6005

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-2	Date Received:	02/28/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B144438.D	1	03/02/18 03:20	EH	n/a	n/a	V3B6386
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID: FB022818	Date Sampled: 02/28/18
Lab Sample ID: JC61548-2	Date Received: 02/28/18
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8260C	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

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

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

Report of Analysis

Page 1 of 3

Client Sample ID:	FB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-2	Date Received:	02/28/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P48192.D	1	03/01/18 13:39	SB	03/01/18 01:30	OP10350	E5P2311
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FB022818	Date Sampled: 02/28/18
Lab Sample ID: JC61548-2	Date Received: 02/28/18
Matrix: AQ - Field Blank Soil	Percent Solids: n/a
Method: SW846 8270D SW846 3510C	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		10-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-2	Date Received:	02/28/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	25%		10-110%
118-79-6	2,4,6-Tribromophenol	82%		36-151%
4165-60-0	Nitrobenzene-d5	67%		34-128%
321-60-8	2-Fluorobiphenyl	64%		38-119%
1718-51-0	Terphenyl-d14	82%		26-129%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: FB022818			
Lab Sample ID: JC61548-2		Date Sampled: 02/28/18	
Matrix: AQ - Field Blank Soil		Date Received: 02/28/18	
Method: SW846-8015C (DAI)		Percent Solids: n/a	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH113333.D	1	03/02/18 16:52	XPL	n/a	n/a	GGH5982
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	104%		56-145%
111-27-3	Hexanol	87%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-2	Date Received:	02/28/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic	< 3.0	3.0	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Barium	< 200	200	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/02/18	03/02/18	JA	SW846 7470A ¹	SW846 7470A ⁴
Selenium	< 10	10	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/01/18	03/03/18	GT	SW846 6010C ²	SW846 3010A ³

- (1) Instrument QC Batch: MA43916
- (2) Instrument QC Batch: MA43927
- (3) Prep QC Batch: MP6003
- (4) Prep QC Batch: MP6014

RL = Reporting Limit

4.2
4

Report of Analysis

Page 1 of 2

Client Sample ID:	TB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-3	Date Received:	02/28/18
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B144439.D	1	03/02/18 03:49	EH	n/a	n/a	V3B6386
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	TB022818	Date Sampled:	02/28/18
Lab Sample ID:	JC61548-3	Date Received:	02/28/18
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		81-124%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

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

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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

5.1

SGS Sample Receipt Summary

Job Number: JC61548

Client: ERM, INC.

Project: AVERY DENNISON, 524 ROUTE 303, ORANGEB

Date / Time Received: 2/28/2018 5:30:00 PM

Delivery Method: Accutest Courier

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.9);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

Cooler Security
Y or N
Y or N

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

Cooler Temperature
Y or N

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

Quality Control Preservation
Y or N
N/A

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

Sample Integrity - Documentation
Y or N

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

Sample Integrity - Condition
Y or N

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

Sample Integrity - Instructions
Y or N
N/A

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

Test Strip Lot #s:	pH 1-12: 216017	pH 12+: 208717	Other: (Specify)
--------------------	-----------------	----------------	------------------

Comments -1 Sample matrix not amenable to Encore or Terracore kit collection, VOA lab to prep from intact volume within hold.

SM089-03
Rev. Date 12/7/17

JC61548: Chain of Custody

Page 2 of 3

Responded to by: CSR: N/A

Response Date: Response Date: 2/28/2018

Response:

Response: Proceed with analysis

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Avery Dennison, 524 Route 303, Orangeburg, NY

0438688

SGS Job Number: JC59041

Sampling Date: 01/17/18

Report to:

ERM, Inc.

eugene.gabay@erm.com

ATTN: Eugene Gabay

Total number of pages in report: 43



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

ERM, Inc.

Job No: JC59041

Avery Dennison, 524 Route 303, Orangeburg, NY
Project No: 0438688

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC59041-1	01/17/18	10:20 JH	01/17/18	SO	Solid	PR-01
JC59041-2	01/17/18	10:35 JH	01/17/18	SO	Solid	PR-02
JC59041-3	01/17/18	10:50 JH	01/17/18	SO	Solid	PR-03
JC59041-3D	01/17/18	10:50 JH	01/17/18	SO	Soil Dup/MSD	PR-03
JC59041-3S	01/17/18	10:50 JH	01/17/18	SO	Soil Matrix Spike	PR-03
JC59041-4	01/17/18	11:10 JH	01/17/18	SO	Solid	PR-04
JC59041-5	01/17/18	00:00 JH	01/17/18	SO	Solid	DUP011718
JC59041-6	01/17/18	14:45 JH	01/17/18	AQ	Trip Blank Soil	TRIP BLANK
JC59041-7	01/17/18	11:40 JH	01/17/18	SO	Solid	SUMP-01
JC59041-8	01/17/18	14:45 JH	01/17/18	AQ	Field Blank Soil	FB-SO-02
JC59041-9	01/17/18	12:00 JH	01/17/18	SO	Solid	PR-B-01
JC59041-10	01/17/18	12:10 JH	01/17/18	SO	Solid	PR-05
JC59041-11	01/17/18	12:20 JH	01/17/18	SO	Solid	PR-06

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc.

Job No JC59041

Site: Avery Dennison, 524 Route 303, Orangeburg, NY

Report Date 1/22/2018 3:26:11 PM

On 01/17/2018, 9 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC59041 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ

Batch ID: V2E6115

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58847-4DUP, JC58989-4MS were used as the QC samples indicated.
- JC59041-6 for Freon 113: Associated CCV outside of control limits low.
- JC59041-6 for Acetone: Associated CCV outside of control limits low.
- JC59041-8 for Freon 113: Associated CCV outside of control limits low.
- JC59041-8 for Acetone: Associated CCV outside of control limits low.

Matrix: SO

Batch ID: V1C6820

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC59040-4MS, JC59040-5DUP were used as the QC samples indicated.
- JC59041-9: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-7: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-10: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-11: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

Matrix: SO

Batch ID: VI8762

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59041-3MS, JC59041-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JC59041-4: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-2: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-5: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-3: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-1: Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- JC59041-3 for Acetone: Associated CCV outside of control limits low.
- JC59041-2 for Acetone: Associated CCV outside of control limits low.
- JC59041-5 for Acetone: Associated CCV outside of control limits low.
- JC59041-1 for Acetone: Associated CCV outside of control limits low.
- JC59041-4 for Acetone: Associated CCV outside of control limits low.

Monday, January 22, 2018

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GC Volatiles By Method SW846-8015C (DAI)

Matrix: AQ

Batch ID: GGH5942

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC59040-9MS, JC59040-9MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: GGH5944

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59041-3MS, JC59041-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Isopropyl Alcohol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Isopropyl Alcohol are outside control limits for sample JC59041-3MSD. Outside control limits due to matrix interference.

General Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN75132

- The data for SM2540 G-97 meets quality control requirements.

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

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

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

Summary of Hits

Job Number: JC59041
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 01/17/18



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JC59041-1 PR-01

No hits reported in this sample.

JC59041-2 PR-02

2-Butanone (MEK) ^a	6.9 J	11	5.5	ug/kg	SW846 8260C
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JC59041-3 PR-03

Toluene ^a	0.90	0.89	0.48	ug/kg	SW846 8260C
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JC59041-4 PR-04

No hits reported in this sample.

JC59041-5 DUP011718

No hits reported in this sample.

JC59041-6 TRIP BLANK

No hits reported in this sample.

JC59041-7 SUMP-01

No hits reported in this sample.

JC59041-8 FB-SO-02

No hits reported in this sample.

JC59041-9 PR-B-01

No hits reported in this sample.

JC59041-10 PR-05

No hits reported in this sample.

JC59041-11 PR-06

No hits reported in this sample.

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.



Dayton, NJ

Section 4

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Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	PR-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-1	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	87.2
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	I218057.D	1	01/18/18 16:19	PS	01/18/18 12:00	n/a	VI8762
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	9.9	6.3	ug/kg	
71-43-2	Benzene	ND	0.49	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.43	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.24	ug/kg	
75-25-2	Bromoform	ND	4.9	0.31	ug/kg	
74-83-9	Bromomethane	ND	4.9	0.69	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.9	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.60	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.64	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.28	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.89	ug/kg	
67-66-3	Chloroform	ND	2.0	0.32	ug/kg	
74-87-3	Chloromethane	ND	4.9	0.97	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.34	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.38	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.99	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.99	0.51	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.99	0.28	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.99	0.47	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	0.60	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.99	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.99	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.99	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.99	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.99	0.58	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.39	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.38	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	0.99	0.29	ug/kg	
76-13-1	Freon 113	ND	4.9	0.67	ug/kg	
591-78-6	2-Hexanone	ND	4.9	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PR-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-1	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	87.2
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	0.25	ug/kg	
79-20-9	Methyl Acetate	ND	4.9	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.54	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.99	0.42	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.9	1.8	ug/kg	
75-09-2	Methylene chloride	ND	4.9	2.5	ug/kg	
100-42-5	Styrene	ND	2.0	0.49	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.63	ug/kg	
108-88-3	Toluene	ND	0.99	0.54	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.99	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.57	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.42	ug/kg	
79-01-6	Trichloroethene	ND	0.99	0.54	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.47	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.76	ug/kg	
	m,p-Xylene	ND	0.99	0.54	ug/kg	
95-47-6	o-Xylene	ND	0.99	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	0.99	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-129%
17060-07-0	1,2-Dichloroethane-D4	100%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	101%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PR-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-1	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	87.2
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112655.D	1	01/19/18 09:18	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		52-141%
111-27-3	Hexanol	93%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	PR-02	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-2	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	90.9
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	I218058.D	1	01/18/18 16:45	PS	01/18/18 12:00	n/a	VI8762
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	11	6.8	ug/kg	
71-43-2	Benzene	ND	0.53	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	0.46	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.26	ug/kg	
75-25-2	Bromoform	ND	5.3	0.33	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	6.9	11	5.5	ug/kg	J
75-15-0	Carbon disulfide	ND	2.1	0.65	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.69	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.30	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.96	ug/kg	
67-66-3	Chloroform	ND	2.1	0.34	ug/kg	
74-87-3	Chloromethane	ND	5.3	1.0	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.36	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.71	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.40	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.30	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.51	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	0.64	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.27	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.42	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.41	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.31	ug/kg	
76-13-1	Freon 113	ND	5.3	0.71	ug/kg	
591-78-6	2-Hexanone	ND	5.3	3.0	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PR-02	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-2	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	90.9
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	0.26	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.58	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.45	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	1.9	ug/kg	
75-09-2	Methylene chloride	ND	5.3	2.6	ug/kg	
100-42-5	Styrene	ND	2.1	0.52	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.27	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.67	ug/kg	
108-88-3	Toluene	ND	1.1	0.58	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.61	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.44	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.58	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.81	ug/kg	
	m,p-Xylene	ND	1.1	0.58	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.27	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-129%
17060-07-0	1,2-Dichloroethane-D4	99%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PR-02	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-2	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	90.9
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112656.D	1	01/19/18 09:37	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	103%		52-141%
111-27-3	Hexanol	100%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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4

Report of Analysis

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Client Sample ID:	PR-03	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-3	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.3
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	I218056.D	1	01/18/18 15:52	PS	01/18/18 12:00	n/a	VI8762
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	8.9	5.7	ug/kg	
71-43-2	Benzene	ND	0.44	0.095	ug/kg	
74-97-5	Bromochloromethane	ND	4.4	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.22	ug/kg	
75-25-2	Bromoform	ND	4.4	0.28	ug/kg	
74-83-9	Bromomethane	ND	4.4	0.62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.9	4.6	ug/kg	
75-15-0	Carbon disulfide	ND	1.8	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.8	0.58	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.26	ug/kg	
75-00-3	Chloroethane	ND	4.4	0.80	ug/kg	
67-66-3	Chloroform	ND	1.8	0.29	ug/kg	
74-87-3	Chloromethane	ND	4.4	0.87	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.30	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.60	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.34	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.89	0.22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.89	0.46	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.89	0.25	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.89	0.42	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.4	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.89	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.89	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.89	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.89	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.89	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.34	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	0.89	0.26	ug/kg	
76-13-1	Freon 113	ND	4.4	0.60	ug/kg	
591-78-6	2-Hexanone	ND	4.4	2.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PR-03	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-3	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.3
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	0.22	ug/kg	
79-20-9	Methyl Acetate	ND	4.4	2.2	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.48	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.89	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.4	1.6	ug/kg	
75-09-2	Methylene chloride	ND	4.4	2.2	ug/kg	
100-42-5	Styrene	ND	1.8	0.44	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.56	ug/kg	
108-88-3	Toluene	0.90	0.89	0.48	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.4	0.89	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.4	0.89	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.51	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.37	ug/kg	
79-01-6	Trichloroethene	ND	0.89	0.48	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.4	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	1.8	0.68	ug/kg	
	m,p-Xylene	ND	0.89	0.49	ug/kg	
95-47-6	o-Xylene	ND	0.89	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	0.89	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-129%
17060-07-0	1,2-Dichloroethane-D4	99%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PR-03	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-3	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.3
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112652.D	1	01/19/18 08:23	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		52-141%
111-27-3	Hexanol	96%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	PR-04	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-4	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.0
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	I218059.D	1	01/18/18 17:12	PS	01/18/18 12:00	n/a	VI8762
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	10	6.5	ug/kg	
71-43-2	Benzene	ND	0.51	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.44	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.25	ug/kg	
75-25-2	Bromoform	ND	5.1	0.32	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.71	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.62	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.29	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.91	ug/kg	
67-66-3	Chloroform	ND	2.0	0.33	ug/kg	
74-87-3	Chloromethane	ND	5.1	1.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.35	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.68	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.39	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.52	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.29	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.48	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.41	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.59	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.40	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.39	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/kg	
76-13-1	Freon 113	ND	5.1	0.68	ug/kg	
591-78-6	2-Hexanone	ND	5.1	2.8	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PR-04	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-4	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.0
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	0.25	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.55	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.43	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	1.8	ug/kg	
75-09-2	Methylene chloride	ND	5.1	2.5	ug/kg	
100-42-5	Styrene	ND	2.0	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.64	ug/kg	
108-88-3	Toluene	ND	1.0	0.55	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.59	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.42	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.55	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.49	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.77	ug/kg	
	m,p-Xylene	ND	1.0	0.55	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.25	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-129%
17060-07-0	1,2-Dichloroethane-D4	99%		73-132%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	100%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PR-04	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-4	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	97.0
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112657.D	1	01/19/18 09:55	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	101%		52-141%
111-27-3	Hexanol	96%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP011718	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-5	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	85.5
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	I218060.D	1	01/18/18 17:39	PS	01/18/18 12:00	n/a	VI8762
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	11	7.2	ug/kg	
71-43-2	Benzene	ND	0.56	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.49	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.27	ug/kg	
75-25-2	Bromoform	ND	5.6	0.35	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.79	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	5.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.2	0.69	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.73	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.32	ug/kg	
75-00-3	Chloroethane	ND	5.6	1.0	ug/kg	
67-66-3	Chloroform	ND	2.2	0.36	ug/kg	
74-87-3	Chloromethane	ND	5.6	1.1	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.39	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.76	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.43	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.28	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.58	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.32	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.54	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.68	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.29	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.20	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.66	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.45	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.43	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.27	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.33	ug/kg	
76-13-1	Freon 113	ND	5.6	0.76	ug/kg	
591-78-6	2-Hexanone	ND	5.6	3.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DUP011718	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-5	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	85.5
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	0.28	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.61	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	2.0	ug/kg	
75-09-2	Methylene chloride	ND	5.6	2.8	ug/kg	
100-42-5	Styrene	ND	2.2	0.56	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.29	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.72	ug/kg	
108-88-3	Toluene	ND	1.1	0.62	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.47	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.62	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.54	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.86	ug/kg	
	m,p-Xylene	ND	1.1	0.62	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.28	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-129%
17060-07-0	1,2-Dichloroethane-D4	98%		73-132%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	101%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP011718						
Lab Sample ID:	JC59041-5					Date Sampled:	01/17/18
Matrix:	SO - Solid					Date Received:	01/17/18
Method:	SW846-8015C (DAI)					Percent Solids:	85.5
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112658.D	1	01/19/18 10:14	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	108%		52-141%
111-27-3	Hexanol	104%		52-141%

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

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

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-6	Date Received:	01/17/18
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E140120.D	1	01/18/18 10:56	JP	n/a	n/a	V2E6115
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-6	Date Received:	01/17/18
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		81-124%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

(a) Associated CCV outside of control limits low.

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	SUMP-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-7	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	95.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1C154516.D	1	01/18/18 16:56	PS	01/18/18 12:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.5	6.1	ug/kg	
71-43-2	Benzene	ND	0.48	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.41	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.23	ug/kg	
75-25-2	Bromoform	ND	4.8	0.30	ug/kg	
74-83-9	Bromomethane	ND	4.8	0.67	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.5	5.0	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.58	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.27	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.86	ug/kg	
67-66-3	Chloroform	ND	1.9	0.31	ug/kg	
74-87-3	Chloromethane	ND	4.8	0.94	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.33	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.64	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.36	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.95	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.95	0.49	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.95	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.95	0.46	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.95	0.25	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.95	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.95	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.95	0.38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.95	0.56	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.38	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.37	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	0.95	0.27	ug/kg	
76-13-1	Freon 113	ND	4.8	0.64	ug/kg	
591-78-6	2-Hexanone	ND	4.8	2.7	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SUMP-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-7	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	95.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	0.24	ug/kg	
79-20-9	Methyl Acetate	ND	4.8	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.52	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.95	0.41	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.8	1.7	ug/kg	
75-09-2	Methylene chloride	ND	4.8	2.4	ug/kg	
100-42-5	Styrene	ND	1.9	0.47	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.61	ug/kg	
108-88-3	Toluene	ND	0.95	0.52	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.95	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.40	ug/kg	
79-01-6	Trichloroethene	ND	0.95	0.52	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.46	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.73	ug/kg	
	m,p-Xylene	ND	0.95	0.52	ug/kg	
95-47-6	o-Xylene	ND	0.95	0.24	ug/kg	
1330-20-7	Xylene (total)	ND	0.95	0.24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-129%
17060-07-0	1,2-Dichloroethane-D4	109%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	104%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

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

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

Report of Analysis

Client Sample ID:	SUMP-01						
Lab Sample ID:	JC59041-7					Date Sampled:	01/17/18
Matrix:	SO - Solid					Date Received:	01/17/18
Method:	SW846-8015C (DAI)					Percent Solids:	95.6
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112661.D	1	01/19/18 11:10	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	102%		52-141%
111-27-3	Hexanol	113%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	FB-SO-02	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-8	Date Received:	01/17/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E140119.D	1	01/18/18 10:29	JP	n/a	n/a	V2E6115
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	FB-SO-02	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-8	Date Received:	01/17/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	106%		80-120%

(a) Associated CCV outside of control limits low.

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

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

Report of Analysis

Client Sample ID: FB-SO-02			
Lab Sample ID: JC59041-8		Date Sampled: 01/17/18	
Matrix: AQ - Field Blank Soil		Date Received: 01/17/18	
Method: SW846-8015C (DAI)		Percent Solids: n/a	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112626.D	1	01/18/18 15:15	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	137%		56-145%
111-27-3	Hexanol	126%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PR-B-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-9	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	92.3
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1C154513.D	1	01/18/18 15:36	PS	01/18/18 12:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.0	5.8	ug/kg	
71-43-2	Benzene	ND	0.45	0.097	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.22	ug/kg	
75-25-2	Bromoform	ND	4.5	0.28	ug/kg	
74-83-9	Bromomethane	ND	4.5	0.63	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.0	4.7	ug/kg	
75-15-0	Carbon disulfide	ND	1.8	0.55	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.8	0.59	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.26	ug/kg	
75-00-3	Chloroethane	ND	4.5	0.82	ug/kg	
67-66-3	Chloroform	ND	1.8	0.29	ug/kg	
74-87-3	Chloromethane	ND	4.5	0.89	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.31	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.61	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.34	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.90	0.22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.90	0.47	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.90	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.90	0.43	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.5	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.90	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.90	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.90	0.64	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.90	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.90	0.53	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.36	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	0.90	0.26	ug/kg	
76-13-1	Freon 113	ND	4.5	0.61	ug/kg	
591-78-6	2-Hexanone	ND	4.5	2.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PR-B-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-9	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	92.3
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	0.22	ug/kg	
79-20-9	Methyl Acetate	ND	4.5	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.90	0.39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.5	1.6	ug/kg	
75-09-2	Methylene chloride	ND	4.5	2.3	ug/kg	
100-42-5	Styrene	ND	1.8	0.45	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.58	ug/kg	
108-88-3	Toluene	ND	0.90	0.49	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.90	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.90	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.38	ug/kg	
79-01-6	Trichloroethene	ND	0.90	0.49	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.5	0.43	ug/kg	
75-01-4	Vinyl chloride	ND	1.8	0.69	ug/kg	
	m,p-Xylene	ND	0.90	0.49	ug/kg	
95-47-6	o-Xylene	ND	0.90	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	0.90	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	108%		73-132%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	103%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

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

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

Report of Analysis

Client Sample ID:	PR-B-01	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-9	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	92.3
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112662.D	1	01/19/18 11:28	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	104%		52-141%
111-27-3	Hexanol	106%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

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Client Sample ID:	PR-05	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-10	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	95.5
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1C154514.D	1	01/18/18 16:02	PS	01/18/18 12:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	5.6 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.3	6.0	ug/kg	
71-43-2	Benzene	ND	0.47	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	0.41	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.23	ug/kg	
75-25-2	Bromoform	ND	4.7	0.29	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.66	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.3	4.9	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.57	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.61	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.27	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.84	ug/kg	
67-66-3	Chloroform	ND	1.9	0.30	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.92	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.63	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.36	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.93	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.48	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.45	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.93	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.93	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.93	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.93	0.55	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	0.93	0.27	ug/kg	
76-13-1	Freon 113	ND	4.7	0.63	ug/kg	
591-78-6	2-Hexanone	ND	4.7	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PR-05	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-10	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	95.5
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	0.23	ug/kg	
79-20-9	Methyl Acetate	ND	4.7	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.93	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	1.7	ug/kg	
75-09-2	Methylene chloride	ND	4.7	2.3	ug/kg	
100-42-5	Styrene	ND	1.9	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.60	ug/kg	
108-88-3	Toluene	ND	0.93	0.51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.93	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.93	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.39	ug/kg	
79-01-6	Trichloroethene	ND	0.93	0.51	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.45	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.72	ug/kg	
	m,p-Xylene	ND	0.93	0.51	ug/kg	
95-47-6	o-Xylene	ND	0.93	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	0.93	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-129%
17060-07-0	1,2-Dichloroethane-D4	106%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	104%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

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

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

Report of Analysis

Client Sample ID:	PR-05	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-10	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	95.5
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112663.D	1	01/19/18 11:47	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	96%		52-141%
111-27-3	Hexanol	91%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PR-06	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-11	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	96.4
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1C154515.D	1	01/18/18 16:29	PS	01/18/18 12:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	5.6 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.3	5.9	ug/kg	
71-43-2	Benzene	ND	0.46	0.099	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	0.40	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.23	ug/kg	
75-25-2	Bromoform	ND	4.6	0.29	ug/kg	
74-83-9	Bromomethane	ND	4.6	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.3	4.8	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.56	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.60	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.27	ug/kg	
75-00-3	Chloroethane	ND	4.6	0.84	ug/kg	
67-66-3	Chloroform	ND	1.9	0.30	ug/kg	
74-87-3	Chloromethane	ND	4.6	0.91	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.35	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.93	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.48	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.44	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.93	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.93	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.93	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.93	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	0.93	0.27	ug/kg	
76-13-1	Freon 113	ND	4.6	0.62	ug/kg	
591-78-6	2-Hexanone	ND	4.6	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PR-06	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-11	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	96.4
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	0.23	ug/kg	
79-20-9	Methyl Acetate	ND	4.6	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.93	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.6	1.7	ug/kg	
75-09-2	Methylene chloride	ND	4.6	2.3	ug/kg	
100-42-5	Styrene	ND	1.9	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.59	ug/kg	
108-88-3	Toluene	ND	0.93	0.51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	0.93	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	0.93	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.39	ug/kg	
79-01-6	Trichloroethene	ND	0.93	0.51	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	0.44	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.71	ug/kg	
	m,p-Xylene	ND	0.93	0.51	ug/kg	
95-47-6	o-Xylene	ND	0.93	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	0.93	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-129%
17060-07-0	1,2-Dichloroethane-D4	108%		73-132%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	102%		77-125%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

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

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

Report of Analysis

Client Sample ID:	PR-06	Date Sampled:	01/17/18
Lab Sample ID:	JC59041-11	Date Received:	01/17/18
Matrix:	SO - Solid	Percent Solids:	96.4
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112664.D	1	01/19/18 12:05	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	106%		52-141%
111-27-3	Hexanol	104%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

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CR

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)										Matrix Codes			
Company Name ERIM		Project Name AD - Orangeburg NY												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RS - Rinse Blank TB - Trip Blank			
Street Address 44 E. River Dr.		Street 524 Route 303															
City Hartford CT		City Orangeburg NY		Billing Information (if different from Report to)													
State 06108		State NY		Company Name ERIM													
Project Contact Jason Fernet		Project # 0438688		Street Address													
Phone # 860.446.8566		Client Purchase Order #		City													
Fax #				State													
Sampler(s) Name(s) J. Harey/B. Murphy		Project Manager Jason Fernet		Attention:													
Phone # 516.946.3894																	
Field ID / Point of Collection		MEQ/ID/Vial #		Date		Time		Sampled by		Matrix		# of bottles		Number of preserved bottles		LAB USE ONLY	
1 PR-01				1/17/18		10:20		JH		S		3				C38	
2 PR-02						10:35		JH		S		3				C32T3	
3 PR-03 (MS/MSD)						10:50		JH		S		3				4C5	
4 PR-04						11:10		JH		S		3				14M4	
5 PUP 011718						00:00		JH		S		3				4017	
6 TRIP BLANK				1/15/18		16:00		TB		S		3				CRUSL	
7 Sump - 01				1/17/18		11:40		JH		S		3				V705	
8 PR-B-01				1/17/18		14:45		JH		FB		4					
9 PR-05						12:00		JH		S		3					
10 PR-06						12:10		JH		S		3					
11 PR-06						12:20		JH		S		3					
Turnaround Time (Business days)																	
Emergency & Rush TIA data available VIA Lablink		Approved By (SGS Accutest PM): / Date:															
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH ☐ 2 Day RUSH ☒ 1 Day RUSH ☐ other		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NJ Data of Known Quality Protocol Reporting Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw Data		☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other		Comments / Special Instructions											
Sample inventory is verified upon receipt in the Laboratory																	
1 Relinquished by: JH		Date Time: 1/17/18 14:50		Received By: JH		Custody Seal # 72		Relinquished By: JH		Date Time: 1/17/18 14:51		Received By: JH		On Ice 30°F			
3 Relinquished by Sampler:		Date Time:		Received By:		Custody Seal #		Relinquished By:		Date Time:		Received By:					
5 Relinquished by:		Date Time:		Received By:		Custody Seal #		Relinquished By:		Date Time:		Received By:					

Form:SM088-01CRev.Date:9/13/16

JC59041: Chain of Custody

Page 1 of 3



SGS Sample Receipt Summary

Job Number: JC59041

Client: ERM, INC.

Project: AVERY DENNISON, 524 ROUTE 303, ORANGEB

Date / Time Received: 1/17/2018 7:51:00 PM

Delivery Method: Other Courier

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security

Y or N

Y or N

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

Cooler Temperature

Y or N

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

Quality Control Preservation

Y or N

N/A

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

Sample Integrity - Documentation

Y or N

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

Sample Integrity - Condition

Y or N

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

Sample Integrity - Instructions

Y or N

N/A

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

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments For all Solid samples, sample matrix not amenable to Encore or Terracore kit collection, VOA lab to prep from intact as soon as possible.

SM089-03
Rev. Date 12/7/17

JC59041: Chain of Custody

Page 2 of 3

Responded to by: CSR: N/A

Response Date: Response Date: 1/17/2018

Response:

Response: Proceed with analysis

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Avery Dennison, 524 Route 303, Orangeburg, NY

0438688

SGS Job Number: JC59040

Sampling Date: 01/16/18

Report to:

ERM, Inc.

eugene.gabay@erm.com

ATTN: Eugene Gabay

Total number of pages in report: 39



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

ERM, Inc.

Job No: JC59040

Avery Dennison, 524 Route 303, Orangeburg, NY
Project No: 0438688

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC59040-1	01/16/18	17:00 JH	01/17/18	AQ	Field Blank Water	FB-GW-01
JC59040-2	01/16/18	17:15 JH	01/17/18	AQ	Field Blank Soil	FB-SO-01
JC59040-3	01/16/18	17:15 JH	01/17/18	AQ	Trip Blank Water	TRIP BLANK
JC59040-4	01/16/18	14:45 JH	01/17/18	SO	Soil	SW-01
JC59040-5	01/16/18	15:00 JH	01/17/18	SO	Soil	SW-02
JC59040-6	01/16/18	15:15 JH	01/17/18	SO	Soil	SW-03
JC59040-7	01/16/18	15:30 JH	01/17/18	SO	Soil	SW-04
JC59040-8	01/16/18	15:25 JH	01/17/18	AQ	Ground Water	GW-01
JC59040-9	01/16/18	16:15 JH	01/17/18	AQ	Ground Water	GW-02
JC59040-9D	01/16/18	16:15 JH	01/17/18	AQ	Water Dup/MSD	GW-02 MSD
JC59040-9S	01/16/18	16:15 JH	01/17/18	AQ	Water Matrix Spike	GW-02 MS
JC59040-10	01/16/18	00:00 JH	01/17/18	AQ	Ground Water	DUP011618

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc.

Job No JC59040

Site: Avery Dennison, 524 Route 303, Orangeburg, NY

Report Date 1/22/2018 11:19:19 A

On 01/17/2018, 7 Sample(s), 1 Trip Blank(s) and 2 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC59040 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ

Batch ID: V3B6352

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59040-9MS, JC59040-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: V1C6820

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59040-4MS, JC59040-5DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method SW846-8015C (DAI)

Matrix: AQ

Batch ID: GGH5942

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59040-9MS, JC59040-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: GGH5944

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC59041-3MS, JC59041-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Isopropyl Alcohol are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Isopropyl Alcohol are outside control limits for sample JC59041-3MSD. Outside control limits due to matrix interference.

General Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN75126

- The data for SM2540 G-97 meets quality control requirements.

Monday, January 22, 2018

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

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

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

Summary of Hits

Job Number: JC59040
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 01/16/18



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JC59040-1 FB-GW-01

No hits reported in this sample.

JC59040-2 FB-SO-01

No hits reported in this sample.

JC59040-3 TRIP BLANK

No hits reported in this sample.

JC59040-4 SW-01

No hits reported in this sample.

JC59040-5 SW-02

No hits reported in this sample.

JC59040-6 SW-03

No hits reported in this sample.

JC59040-7 SW-04

Toluene	6.1	0.85	0.46	ug/kg	SW846 8260C
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JC59040-8 GW-01

Toluene	1.9	1.0	0.25	ug/l	SW846 8260C
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JC59040-9 GW-02

No hits reported in this sample.

JC59040-10 DUP011618

No hits reported in this sample.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	FB-GW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-1	Date Received:	01/17/18
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143691.D	1	01/18/18 10:52	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	FB-GW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-1	Date Received:	01/17/18
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		81-124%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FB-GW-01			
Lab Sample ID: JC59040-1		Date Sampled: 01/16/18	
Matrix: AQ - Field Blank Water		Date Received: 01/17/18	
Method: SW846-8015C (DAI)		Percent Solids: n/a	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112623.D	1	01/18/18 14:19	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	136%		56-145%
111-27-3	Hexanol	125%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	FB-SO-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-2	Date Received:	01/17/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143692.D	1	01/18/18 11:20	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	FB-SO-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-2	Date Received:	01/17/18
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		81-124%
2037-26-5	Toluene-D8	95%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FB-SO-01			
Lab Sample ID: JC59040-2		Date Sampled: 01/16/18	
Matrix: AQ - Field Blank Soil		Date Received: 01/17/18	
Method: SW846-8015C (DAI)		Percent Solids: n/a	
Project: Avery Dennison, 524 Route 303, Orangeburg, NY			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112624.D	1	01/18/18 14:38	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	139%		56-145%
111-27-3	Hexanol	129%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-3	Date Received:	01/17/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143693.D	1	01/18/18 11:49	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-3	Date Received:	01/17/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		81-124%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-4	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	89.4
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C154509.D	1	01/18/18 13:48	PS	01/18/18 09:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	6.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.1	5.2	ug/kg	
71-43-2	Benzene	ND	0.41	0.087	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	1.6	0.20	ug/kg	
75-25-2	Bromoform	ND	4.1	0.25	ug/kg	
74-83-9	Bromomethane	ND	4.1	0.57	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.1	4.2	ug/kg	
75-15-0	Carbon disulfide	ND	1.6	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.6	0.53	ug/kg	
108-90-7	Chlorobenzene	ND	1.6	0.23	ug/kg	
75-00-3	Chloroethane	ND	4.1	0.73	ug/kg	
67-66-3	Chloroform	ND	1.6	0.26	ug/kg	
74-87-3	Chloromethane	ND	4.1	0.80	ug/kg	
110-82-7	Cyclohexane	ND	1.6	0.28	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.55	ug/kg	
124-48-1	Dibromochloromethane	ND	1.6	0.31	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.81	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.81	0.42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.81	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.81	0.39	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.81	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.81	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.81	0.57	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.81	0.33	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.81	0.47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.6	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.19	ug/kg	
100-41-4	Ethylbenzene	ND	0.81	0.23	ug/kg	
76-13-1	Freon 113	ND	4.1	0.55	ug/kg	
591-78-6	2-Hexanone	ND	4.1	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-4	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	89.4
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.6	0.20	ug/kg	
79-20-9	Methyl Acetate	ND	4.1	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	1.6	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.81	0.35	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.1	1.5	ug/kg	
75-09-2	Methylene chloride	ND	4.1	2.0	ug/kg	
100-42-5	Styrene	ND	1.6	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	1.6	0.52	ug/kg	
108-88-3	Toluene	ND	0.81	0.44	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	0.81	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	0.81	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.47	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.34	ug/kg	
79-01-6	Trichloroethene	ND	0.81	0.44	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	1.6	0.62	ug/kg	
	m,p-Xylene	ND	0.81	0.44	ug/kg	
95-47-6	o-Xylene	ND	0.81	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	0.81	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	106%		73-132%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	105%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-4	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	89.4
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112665.D	1	01/19/18 12:23	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	109%		52-141%
111-27-3	Hexanol	108%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	SW-02	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-5	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	77.1
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C154510.D	1	01/18/18 14:15	PS	01/18/18 09:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	7.7	ug/kg	
71-43-2	Benzene	ND	0.60	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.52	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.29	ug/kg	
75-25-2	Bromoform	ND	6.0	0.37	ug/kg	
74-83-9	Bromomethane	ND	6.0	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	6.3	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.73	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.78	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.35	ug/kg	
75-00-3	Chloroethane	ND	6.0	1.1	ug/kg	
67-66-3	Chloroform	ND	2.4	0.39	ug/kg	
74-87-3	Chloromethane	ND	6.0	1.2	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.41	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.81	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.46	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.34	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.58	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.31	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.22	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.85	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.48	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.46	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.28	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.35	ug/kg	
76-13-1	Freon 113	ND	6.0	0.81	ug/kg	
591-78-6	2-Hexanone	ND	6.0	3.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SW-02	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-5	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	77.1
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	0.30	ug/kg	
79-20-9	Methyl Acetate	ND	6.0	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	0.66	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	2.2	ug/kg	
75-09-2	Methylene chloride	ND	6.0	3.0	ug/kg	
100-42-5	Styrene	ND	2.4	0.60	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.31	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.76	ug/kg	
108-88-3	Toluene	ND	1.2	0.66	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.70	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.50	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.66	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.58	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.92	ug/kg	
	m,p-Xylene	ND	1.2	0.66	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.30	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	108%		73-132%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	104%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-02	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-5	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	77.1
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112666.D	1	01/19/18 12:42	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	97%		52-141%
111-27-3	Hexanol	96%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	SW-03	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-6	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C154511.D	1	01/18/18 14:42	PS	01/18/18 09:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.3	6.0	ug/kg	
71-43-2	Benzene	ND	0.47	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	0.40	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.23	ug/kg	
75-25-2	Bromoform	ND	4.7	0.29	ug/kg	
74-83-9	Bromomethane	ND	4.7	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.3	4.9	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.57	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.60	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.27	ug/kg	
75-00-3	Chloroethane	ND	4.7	0.84	ug/kg	
67-66-3	Chloroform	ND	1.9	0.30	ug/kg	
74-87-3	Chloromethane	ND	4.7	0.92	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.63	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.35	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.93	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.48	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.27	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.45	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	0.57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.93	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.93	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.93	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.93	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.36	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	0.93	0.27	ug/kg	
76-13-1	Freon 113	ND	4.7	0.63	ug/kg	
591-78-6	2-Hexanone	ND	4.7	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SW-03	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-6	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	0.23	ug/kg	
79-20-9	Methyl Acetate	ND	4.7	2.4	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.93	0.40	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.7	1.7	ug/kg	
75-09-2	Methylene chloride	ND	4.7	2.3	ug/kg	
100-42-5	Styrene	ND	1.9	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	1.9	0.59	ug/kg	
108-88-3	Toluene	ND	0.93	0.51	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.93	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.93	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.54	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.39	ug/kg	
79-01-6	Trichloroethene	ND	0.93	0.51	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	0.45	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.71	ug/kg	
	m,p-Xylene	ND	0.93	0.51	ug/kg	
95-47-6	o-Xylene	ND	0.93	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	0.93	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	107%		73-132%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	102%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-03						
Lab Sample ID:	JC59040-6					Date Sampled:	01/16/18
Matrix:	SO - Soil					Date Received:	01/17/18
Method:	SW846-8015C (DAI)					Percent Solids:	89.6
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112667.D	1	01/19/18 13:00	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	110	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		52-141%
111-27-3	Hexanol	98%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SW-04	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-7	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C154512.D	1	01/18/18 15:09	PS	01/18/18 09:00	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	6.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.5	5.4	ug/kg	
71-43-2	Benzene	ND	0.42	0.091	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	1.7	0.21	ug/kg	
75-25-2	Bromoform	ND	4.2	0.26	ug/kg	
74-83-9	Bromomethane	ND	4.2	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.5	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	1.7	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.7	0.55	ug/kg	
108-90-7	Chlorobenzene	ND	1.7	0.24	ug/kg	
75-00-3	Chloroethane	ND	4.2	0.77	ug/kg	
67-66-3	Chloroform	ND	1.7	0.27	ug/kg	
74-87-3	Chloromethane	ND	4.2	0.84	ug/kg	
110-82-7	Cyclohexane	ND	1.7	0.29	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.57	ug/kg	
124-48-1	Dibromochloromethane	ND	1.7	0.32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.85	0.21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.85	0.44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.85	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.85	0.41	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	0.52	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.85	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.85	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.85	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.85	0.34	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.85	0.50	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.7	0.34	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	0.85	0.25	ug/kg	
76-13-1	Freon 113	ND	4.2	0.57	ug/kg	
591-78-6	2-Hexanone	ND	4.2	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SW-04	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-7	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8260C SW846 5035		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.7	0.21	ug/kg	
79-20-9	Methyl Acetate	ND	4.2	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	1.7	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.85	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.2	1.5	ug/kg	
75-09-2	Methylene chloride	ND	4.2	2.1	ug/kg	
100-42-5	Styrene	ND	1.7	0.42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	1.7	0.54	ug/kg	
108-88-3	Toluene	6.1	0.85	0.46	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.85	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.85	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.49	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.36	ug/kg	
79-01-6	Trichloroethene	ND	0.85	0.46	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	0.41	ug/kg	
75-01-4	Vinyl chloride	ND	1.7	0.65	ug/kg	
	m,p-Xylene	ND	0.85	0.47	ug/kg	
95-47-6	o-Xylene	ND	0.85	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	0.85	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	108%		73-132%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	102%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-04	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-7	Date Received:	01/17/18
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112668.D	1	01/19/18 13:19	XPL	n/a	n/a	GGH5944
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	110	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
111-27-3	Hexanol	96%		52-141%		
111-27-3	Hexanol	95%		52-141%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	GW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-8	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143695.D	1	01/18/18 12:55	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	GW-01	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-8	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.9	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		81-124%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

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

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

Report of Analysis

Client Sample ID:	GW-01						
Lab Sample ID:	JC59040-8					Date Sampled:	01/16/18
Matrix:	AQ - Ground Water					Date Received:	01/17/18
Method:	SW846-8015C (DAI)					Percent Solids:	n/a
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112625.D	1	01/18/18 14:56	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	115%		56-145%
111-27-3	Hexanol	131%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	GW-02	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-9	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143694.D	1	01/18/18 12:17	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	GW-02	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-9	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		81-124%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-02							
Lab Sample ID: JC59040-9				Date Sampled: 01/16/18			
Matrix: AQ - Ground Water				Date Received: 01/17/18			
Method: SW846-8015C (DAI)				Percent Solids: n/a			
Project: Avery Dennison, 524 Route 303, Orangeburg, NY							

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112619.D	1	01/18/18 13:04	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	97%		56-145%
111-27-3	Hexanol	98%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	DUP011618	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-10	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3B143696.D	1	01/18/18 13:23	EH	n/a	n/a	V3B6352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DUP011618	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-10	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		81-124%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP011618	Date Sampled:	01/16/18
Lab Sample ID:	JC59040-10	Date Received:	01/17/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112622.D	1	01/18/18 14:00	XPL	n/a	n/a	GGH5942
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	121%		56-145%
111-27-3	Hexanol	134%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

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impair

SGS Accutest Job #	Bottle Order Control #
SGS Accutest Quantity	SGS Accutest Job #

5C59040

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name ERIM	Project Name AD - Orangeburg NY						
Street Address 99 E. River Drive	Street 524 Ate. 303						
City E Hartford	State CT	City Orangeburg	State NY	Billing Information (if different from Report to)			
Project Contact Jason Farnet	E-mail Jason.Farnet@erim.com	Project # 0438688		Street Address ERIM			
Phone # 860.466.8501	Fax #	Client Purchase Order #		City		State	
Sampler(s) Name(s) B Murphy / A Harvey	Phone #	Project Manager Jason Farnet		Attention:			
SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles
1	FB-6W-01		4/6/18	17:00	JH	FB	4
2	FB-50-01		4/6/18	17:15		FB	4
3	TRIP BLANK		4/5/18	16:00		TB	2
4	SW-01		4/6/18	14:45		SO	5
5	SW-02			15:00		SO	5
6	SW-03			15:15		SO	5
7	SW-04			15:30		SO	5
8	6W-01			15:25		6W	6
9	6W-02 (MS/MSD)			16:15		6W	18
10	DUP 011618			00:00		6W	6

Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions	
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH ☐ 2 Day RUSH ☒ 1 Day RUSH ☐ other	Approved By (SGS Accutest PM): / Date:	☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NJ Data of Known Quality Protocol Reporting	☐ NYASP Category A ☒ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other	3X5J EN100 INITIAL ASSESSMENT 3B17P LABEL VERIFICATION	
Emergency & Rush T/A data available VIA Lablink		Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data		Sample inventory is verified upon receipt in the Laboratory	

Relinquished by Sampler:		Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:	Date Time:	
1	JH	4/17/18 14:50	1	JH #72	2	JH #72	1/17/18	2	f fte
3			3		4		4		
5			5						

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☐ Cooler Temp. 30°C

5.1
5

JC59040: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: JC59040

Client: ERM, INC.

Project: AVERY DENNISON, 524 ROUTE 303, ORANGEB

Date / Time Received: 1/17/2018 7:51:00 PM

Delivery Method:

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Security

Y or N

Y or N

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

Cooler Temperature

Y or N

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

Quality Control Preservation

Y or N

N/A

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

Sample Integrity - Documentation

Y or N

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

Sample Integrity - Condition

Y or N

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

Sample Integrity - Instructions

Y or N

N/A

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

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC59040: Chain of Custody

Page 2 of 2

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Avery Dennison, 524 Route 303, Orangeburg, NY

0438688

SGS Job Number: JC58956

Sampling Date: 01/15/18

Report to:

ERM, Inc.

eugene.gabay@erm.com

ATTN: Eugene Gabay

Total number of pages in report: **51**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

ERM, Inc.

Job No: JC58956

Avery Dennison, 524 Route 303, Orangeburg, NY
Project No: 0438688

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC58956-1	01/15/18	14:01 BM	01/16/18	SO	Solid	BM-01
JC58956-2	01/15/18	14:04 BM	01/16/18	SO	Solid	BM-04
JC58956-3	01/15/18	14:09 BM	01/16/18	SO	Solid	BM-07
JC58956-4	01/15/18	14:16 BM	01/16/18	SO	Solid	BM-10
JC58956-25	01/15/18	15:28 BM	01/16/18	SO	Solid	BM-25
JC58956-25A	01/15/18	15:28 BM	01/16/18	SO	Solid	BM-25
JC58956-26	01/15/18	15:40 BM	01/16/18	SO	Solid	BM-26
JC58956-26A	01/15/18	15:40 BM	01/16/18	SO	Solid	BM-26

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc.

Job No JC58956

Site: Avery Dennison, 524 Route 303, Orangeburg, NY

Report Date 1/24/2018 11:42:00 A

On 01/16/2018, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC58956 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Please refer to certification exceptions summary for additional certification information.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: SO

Batch ID: V1C6820

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC59040-4MS, JC59040-5DUP were used as the QC samples indicated.

Matrix: SO

Batch ID: V3C6431

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC58958-9MS, JC58958-4DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Chloroethane are outside control limits. High percent recoveries and no associated positive reported in the QC batch.
- RPD(s) for Duplicate for Acetone are outside control limits for sample JC58958-4DUP. High RPD could be expected when significant difference exist in sample weights used for spiking.
- JC58956-2 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-3 for Chloroethane: Associated CCV and BS outside of control limits high, sample was ND.
- JC58956-2 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JC58956-3 for Chloromethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-1 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-2 for Chloromethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-2 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JC58956-3 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JC58956-3 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-2 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-1 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JC58956-1 for Chloroethane: Associated CCV and BS outside of control limits high, sample was ND.
- JC58956-1 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JC58956-3 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JC58956-2 for Chloroethane: Associated CCV and BS outside of control limits high, sample was ND.
- JC58956-3 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JC58956-1 for Chloromethane: Associated CCV outside of control limits high, sample was ND.

Wednesday, January 24, 2018

Page 1 of 4

MS Semi-volatiles By Method SW846 8270D

Matrix: SO

Batch ID: OP9341

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58995-1MS, JC58995-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for 4-Chloroaniline are outside control limits for sample OP9341-MSD. Outside of in house control limits.
- JC58956-25 for 4-Chlorophenyl phenyl ether: Associated CCV outside of control limits low.
- JC58956-26 for 4-Chlorophenyl phenyl ether: Associated CCV outside of control limits low.

GC Volatiles By Method SW846-8015C (DAI)

Matrix: SO

Batch ID: GGH5941

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC58956-1MS, JC58956-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP9329

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58958-8MS, JC58958-8MSD, OP9329-MSMSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP9328

- All samples were extracted within the recommended method holding time.
- Sample(s) JC58958-3MS, JC58958-3MSD, OP9328-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP9338

- All samples were extracted within the recommended method holding time.
- Sample(s) JC58956-25AMS, JC58956-25AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010C

Matrix: SO

Batch ID: MP5260

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58896-1MS, JC58896-1MSD, JC58896-1SDL, JC58896-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Zinc are outside control limits for sample MP5260-D1. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Beryllium, Chromium, Copper, Lead, Zinc are outside control limits for sample MP5260-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP5260-D1 for Beryllium: RPD acceptable due to low duplicate and sample concentrations.
- MP5260-D1 for Barium: RPD acceptable due to low duplicate and sample concentrations.
- MP5260-D1 for Selenium: RPD acceptable due to low duplicate and sample concentrations.
- MP5260-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- JC58956-26 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JC58956-26 for Beryllium: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP5278

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58896-1DUP, JC58896-1MS, JC58896-1MSD were used as the QC samples for metals.

General Chemistry By Method ASTM D1498-76M

Matrix: SO

Batch ID: GN75103

- Sample(s) JC58958-1DUP were used as the QC samples for Redox Potential Vs H2.

General Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN75068

- The data for SM2540 G-97 meets quality control requirements.

Matrix: SO

Batch ID: GN75090

- The data for SM2540 G-97 meets quality control requirements.

General Chemistry By Method SW846 3060A/7196A

Matrix: SO

Batch ID: GP10576

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC58956-25DUP, JC58956-25MS were used as the QC samples for Chromium, Hexavalent.
- GP10576-S1 for Chromium, Hexavalent: Good recovery on soluble XCR matrix spike. Good recovery (104%) on the post-spike.
- GP10576-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

General Chemistry By Method SW846 6010/7196A M

Matrix: SO

Batch ID: R167854

- The data for SW846 6010/7196A M meets quality control requirements.
- JC58956-25 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix: SO

Batch ID: R167855

- The data for SW846 6010/7196A M meets quality control requirements.
- JC58956-26 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP10584

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC59031-37ADUP, JC59031-37AMS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method SW846 9045D

Matrix: SO

Batch ID: GN75104

- Sample(s) JC58958-1DUP were used as the QC samples for pH.

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

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

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

Summary of Hits

Job Number: JC58956
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 01/15/18



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

JC58956-1 BM-01

Toluene	1.4	0.89	0.49	ug/kg	SW846 8260C
---------	-----	------	------	-------	-------------

JC58956-2 BM-04

No hits reported in this sample.

JC58956-3 BM-07

No hits reported in this sample.

JC58956-4 BM-10

No hits reported in this sample.

JC58956-25 BM-25

Pyrene	17.9 J	36	11	ug/kg	SW846 8270D
Aroclor 1262	14.4 J	35	2.7	ug/kg	SW846 8082A
Arsenic	3.5	2.1		mg/kg	SW846 6010C
Barium	62.3	21		mg/kg	SW846 6010C
Beryllium	0.49	0.21		mg/kg	SW846 6010C
Chromium	18.9	1.1		mg/kg	SW846 6010C
Copper	36.2	2.7		mg/kg	SW846 6010C
Lead	7.9	2.1		mg/kg	SW846 6010C
Manganese	603	1.6		mg/kg	SW846 6010C
Nickel	21.1	4.2		mg/kg	SW846 6010C
Zinc	40.5	5.3		mg/kg	SW846 6010C
Chromium, Trivalent ^a	18.9	1.5		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2	242			mv	ASTM D1498-76M
pH	7.93			su	SW846 9045D

JC58956-25A BM-25

No hits reported in this sample.

JC58956-26 BM-26

Aroclor 1262	7.5 J	35	2.7	ug/kg	SW846 8082A
Arsenic	2.6	2.1		mg/kg	SW846 6010C
Barium	53.6	21		mg/kg	SW846 6010C
Beryllium ^b	0.48	0.42		mg/kg	SW846 6010C
Chromium	19.0	1.1		mg/kg	SW846 6010C
Copper	62.8	2.6		mg/kg	SW846 6010C

Summary of Hits

Job Number: JC58956
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 01/15/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
Lead		5.1	2.1		mg/kg	SW846 6010C
Manganese		662	1.6		mg/kg	SW846 6010C
Nickel		23.1	4.2		mg/kg	SW846 6010C
Zinc		44.6	5.3		mg/kg	SW846 6010C
Chromium, Trivalent ^a		19.0	1.5		mg/kg	SW846 6010/7196A M
Redox Potential Vs H2		231			mv	ASTM D1498-76M
pH		8.17			su	SW846 9045D

JC58956-26A BM-26

No hits reported in this sample.

- (a) Calculated as: (Chromium) - (Chromium, Hexavalent)
- (b) Elevated detection limit due to dilution required for high interfering element.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	BM-01	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-1	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	96.5
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C142046.D	1	01/17/18 18:35	PS	n/a	n/a	V3C6431
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.9	5.7	ug/kg	
71-43-2	Benzene	ND	0.45	0.096	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.22	ug/kg	
75-25-2	Bromoform	ND	4.5	0.28	ug/kg	
74-83-9	Bromomethane ^a	ND	4.5	0.63	ug/kg	
78-93-3	2-Butanone (MEK) ^a	ND	8.9	4.7	ug/kg	
75-15-0	Carbon disulfide	ND	1.8	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.8	0.58	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.26	ug/kg	
75-00-3	Chloroethane ^b	ND	4.5	0.81	ug/kg	
67-66-3	Chloroform	ND	1.8	0.29	ug/kg	
74-87-3	Chloromethane ^a	ND	4.5	0.88	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.31	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.60	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.34	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.89	0.22	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.89	0.46	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.89	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.89	0.43	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.5	0.54	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.89	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.89	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.89	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.89	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.89	0.52	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.34	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	0.89	0.26	ug/kg	
76-13-1	Freon 113	ND	4.5	0.60	ug/kg	
591-78-6	2-Hexanone	ND	4.5	2.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	BM-01	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-1	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	96.5
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	0.22	ug/kg	
79-20-9	Methyl Acetate	ND	4.5	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.89	0.38	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.5	1.6	ug/kg	
75-09-2	Methylene chloride	ND	4.5	2.2	ug/kg	
100-42-5	Styrene	ND	1.8	0.44	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.57	ug/kg	
108-88-3	Toluene	1.4	0.89	0.49	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.89	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.89	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.38	ug/kg	
79-01-6	Trichloroethene	ND	0.89	0.49	ug/kg	
75-69-4	Trichlorofluoromethane ^a	ND	4.5	0.43	ug/kg	
75-01-4	Vinyl chloride ^a	ND	1.8	0.68	ug/kg	
	m,p-Xylene	ND	0.89	0.49	ug/kg	
95-47-6	o-Xylene	ND	0.89	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	0.89	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-129%
17060-07-0	1,2-Dichloroethane-D4	111%		73-132%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	102%		77-125%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV and BS outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-01						
Lab Sample ID:	JC58956-1				Date Sampled:	01/15/18	
Matrix:	SO - Solid				Date Received:	01/16/18	
Method:	SW846-8015C (DAI)				Percent Solids:	96.5	
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112609.D	1	01/18/18 07:58	XPL	n/a	n/a	GGH5941
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	93	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	99%		52-141%
111-27-3	Hexanol	95%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BM-04	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-2	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	96.9
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C142047.D	1	01/17/18 19:03	PS	n/a	n/a	V3C6431
Run #2							

	Initial Weight
Run #1	6.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.5	5.4	ug/kg	
71-43-2	Benzene	ND	0.42	0.091	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.37	ug/kg	
75-27-4	Bromodichloromethane	ND	1.7	0.21	ug/kg	
75-25-2	Bromoform	ND	4.2	0.26	ug/kg	
74-83-9	Bromomethane ^a	ND	4.2	0.59	ug/kg	
78-93-3	2-Butanone (MEK) ^a	ND	8.5	4.4	ug/kg	
75-15-0	Carbon disulfide	ND	1.7	0.52	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.7	0.55	ug/kg	
108-90-7	Chlorobenzene	ND	1.7	0.24	ug/kg	
75-00-3	Chloroethane ^b	ND	4.2	0.76	ug/kg	
67-66-3	Chloroform	ND	1.7	0.27	ug/kg	
74-87-3	Chloromethane ^a	ND	4.2	0.83	ug/kg	
110-82-7	Cyclohexane	ND	1.7	0.29	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.57	ug/kg	
124-48-1	Dibromochloromethane	ND	1.7	0.32	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.85	0.21	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.85	0.44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.85	0.24	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.85	0.41	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	0.51	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.85	0.22	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.85	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.85	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.85	0.34	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.85	0.49	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.7	0.34	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.32	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.20	ug/kg	
100-41-4	Ethylbenzene	ND	0.85	0.24	ug/kg	
76-13-1	Freon 113	ND	4.2	0.57	ug/kg	
591-78-6	2-Hexanone	ND	4.2	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	BM-04	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-2	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	96.9
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.7	0.21	ug/kg	
79-20-9	Methyl Acetate	ND	4.2	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	1.7	0.46	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.85	0.36	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.2	1.5	ug/kg	
75-09-2	Methylene chloride	ND	4.2	2.1	ug/kg	
100-42-5	Styrene	ND	1.7	0.42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	1.7	0.54	ug/kg	
108-88-3	Toluene	ND	0.85	0.46	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.85	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.85	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.49	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.36	ug/kg	
79-01-6	Trichloroethene	ND	0.85	0.46	ug/kg	
75-69-4	Trichlorofluoromethane ^a	ND	4.2	0.41	ug/kg	
75-01-4	Vinyl chloride ^a	ND	1.7	0.65	ug/kg	
	m,p-Xylene	ND	0.85	0.46	ug/kg	
95-47-6	o-Xylene	ND	0.85	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	0.85	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-129%
17060-07-0	1,2-Dichloroethane-D4	113%		73-132%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	103%		77-125%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV and BS outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-04	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-2	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	96.9
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112612.D	1	01/18/18 08:53	XPL	n/a	n/a	GGH5941
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	99	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	104%		52-141%
111-27-3	Hexanol	101%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BM-07	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-3	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.3
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C142048.D	1	01/17/18 19:30	PS	n/a	n/a	V3C6431
Run #2							

	Initial Weight
Run #1	5.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.2	5.9	ug/kg	
71-43-2	Benzene	ND	0.46	0.098	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	0.40	ug/kg	
75-27-4	Bromodichloromethane	ND	1.8	0.22	ug/kg	
75-25-2	Bromoform	ND	4.6	0.29	ug/kg	
74-83-9	Bromomethane ^a	ND	4.6	0.65	ug/kg	
78-93-3	2-Butanone (MEK) ^a	ND	9.2	4.8	ug/kg	
75-15-0	Carbon disulfide	ND	1.8	0.56	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.8	0.60	ug/kg	
108-90-7	Chlorobenzene	ND	1.8	0.27	ug/kg	
75-00-3	Chloroethane ^b	ND	4.6	0.83	ug/kg	
67-66-3	Chloroform	ND	1.8	0.30	ug/kg	
74-87-3	Chloromethane ^a	ND	4.6	0.91	ug/kg	
110-82-7	Cyclohexane	ND	1.8	0.32	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.8	0.62	ug/kg	
124-48-1	Dibromochloromethane	ND	1.8	0.35	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.92	0.23	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.92	0.47	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.92	0.26	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.92	0.44	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.92	0.24	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.92	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.92	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.92	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.92	0.54	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.8	0.37	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	0.35	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	0.92	0.27	ug/kg	
76-13-1	Freon 113	ND	4.6	0.62	ug/kg	
591-78-6	2-Hexanone	ND	4.6	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	BM-07	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-3	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.3
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.8	0.23	ug/kg	
79-20-9	Methyl Acetate	ND	4.6	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	1.8	0.50	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.92	0.39	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.6	1.7	ug/kg	
75-09-2	Methylene chloride	ND	4.6	2.3	ug/kg	
100-42-5	Styrene	ND	1.8	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	0.23	ug/kg	
127-18-4	Tetrachloroethene	ND	1.8	0.59	ug/kg	
108-88-3	Toluene	ND	0.92	0.50	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.8	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.39	ug/kg	
79-01-6	Trichloroethene	ND	0.92	0.50	ug/kg	
75-69-4	Trichlorofluoromethane ^a	ND	4.6	0.44	ug/kg	
75-01-4	Vinyl chloride ^a	ND	1.8	0.70	ug/kg	
	m,p-Xylene	ND	0.92	0.50	ug/kg	
95-47-6	o-Xylene	ND	0.92	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	0.92	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		72-129%
17060-07-0	1,2-Dichloroethane-D4	112%		73-132%
2037-26-5	Toluene-D8	95%		80-120%
460-00-4	4-Bromofluorobenzene	102%		77-125%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV and BS outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-07	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-3	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.3
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112613.D	1	01/18/18 09:11	XPL	n/a	n/a	GGH5941
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	96	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	111%		52-141%
111-27-3	Hexanol	108%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	BM-10	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-4	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.6
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C154507.D	1	01/18/18 12:54	PS	n/a	n/a	V1C6820
Run #2							

	Initial Weight
Run #1	6.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.0	5.2	ug/kg	
71-43-2	Benzene	ND	0.40	0.086	ug/kg	
74-97-5	Bromochloromethane	ND	4.0	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	1.6	0.20	ug/kg	
75-25-2	Bromoform	ND	4.0	0.25	ug/kg	
74-83-9	Bromomethane	ND	4.0	0.56	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.0	4.2	ug/kg	
75-15-0	Carbon disulfide	ND	1.6	0.49	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.6	0.52	ug/kg	
108-90-7	Chlorobenzene	ND	1.6	0.23	ug/kg	
75-00-3	Chloroethane	ND	4.0	0.73	ug/kg	
67-66-3	Chloroform	ND	1.6	0.26	ug/kg	
74-87-3	Chloromethane	ND	4.0	0.79	ug/kg	
110-82-7	Cyclohexane	ND	1.6	0.28	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	1.6	0.31	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.80	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.80	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.80	0.39	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.0	0.49	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.80	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.80	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.80	0.57	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.80	0.32	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.80	0.47	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.6	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.19	ug/kg	
100-41-4	Ethylbenzene	ND	0.80	0.23	ug/kg	
76-13-1	Freon 113	ND	4.0	0.54	ug/kg	
591-78-6	2-Hexanone	ND	4.0	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	BM-10	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-4	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.6
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.6	0.20	ug/kg	
79-20-9	Methyl Acetate	ND	4.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	1.6	0.44	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.34	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.0	1.4	ug/kg	
75-09-2	Methylene chloride	ND	4.0	2.0	ug/kg	
100-42-5	Styrene	ND	1.6	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	1.6	0.51	ug/kg	
108-88-3	Toluene	ND	0.80	0.44	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	0.80	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	0.80	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.47	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.34	ug/kg	
79-01-6	Trichloroethene	ND	0.80	0.44	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.0	0.39	ug/kg	
75-01-4	Vinyl chloride	ND	1.6	0.62	ug/kg	
	m,p-Xylene	ND	0.80	0.44	ug/kg	
95-47-6	o-Xylene	ND	0.80	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	0.80	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-129%
17060-07-0	1,2-Dichloroethane-D4	110%		73-132%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	104%		77-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-10	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-4	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	95.6
Method:	SW846-8015C (DAI)		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH112614.D	1	01/18/18 09:30	XPL	n/a	n/a	GGH5941
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	97	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	107%		52-141%
111-27-3	Hexanol	104%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M143328.D	1	01/19/18 03:59	CS	01/18/18 10:00	OP9341	EM6079
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	71	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	23	ug/kg	
	3&4-Methylphenol	ND	71	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	95	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	71	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	ND	36	12	ug/kg	
208-96-8	Acenaphthylene	ND	36	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.7	ug/kg	
120-12-7	Anthracene	ND	36	22	ug/kg	
1912-24-9	Atrazine	ND	71	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.9	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	8.5	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	71	5.2	ug/kg	

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J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	14	ug/kg	
218-01-9	Chrysene	ND	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	7.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	71	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether ^a	ND	71	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	71	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	16	ug/kg	
132-64-9	Dibenzofuran	ND	71	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	5.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	71	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	8.3	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	9.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	17	ug/kg	
78-59-1	Isophorone	ND	71	7.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	36	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.4	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.9	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.2	ug/kg	
91-20-3	Naphthalene	ND	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	71	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	36	12	ug/kg	
129-00-0	Pyrene	17.9	36	11	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		23-115%

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Report of Analysis

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	67%		27-114%
118-79-6	2,4,6-Tribromophenol	82%		19-152%
4165-60-0	Nitrobenzene-d5	71%		26-134%
321-60-8	2-Fluorobiphenyl	71%		39-124%
1718-51-0	Terphenyl-d14	85%		36-134%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Method:	SW846 8081B SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G89112.D	1	01/18/18 11:13	CP	01/17/18 16:00	OP9329	G4G2332
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.63	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.57	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4' -DDD	ND	0.70	0.64	ug/kg	
72-55-9	4,4' -DDE	ND	0.70	0.61	ug/kg	
50-29-3	4,4' -DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.54	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.60	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		25-135%
877-09-8	Tetrachloro-m-xylene	79%		25-135%
2051-24-3	Decachlorobiphenyl	90%		10-156%
2051-24-3	Decachlorobiphenyl	81%		10-156%

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Report of Analysis

Page 1 of 1

Client Sample ID:	BM-25						
Lab Sample ID:	JC58956-25					Date Sampled:	01/15/18
Matrix:	SO - Solid					Date Received:	01/16/18
Method:	SW846 8082A SW846 3546					Percent Solids:	93.3
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX222490.D	1	01/18/18 10:01	HB	01/17/18 16:00	OP9328	GXX6224
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	14	ug/kg	
11104-28-2	Aroclor 1221	ND	35	14	ug/kg	
11141-16-5	Aroclor 1232	ND	35	9.4	ug/kg	
53469-21-9	Aroclor 1242	ND	35	5.6	ug/kg	
12672-29-6	Aroclor 1248	ND	35	21	ug/kg	
11097-69-1	Aroclor 1254	ND	35	8.6	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	5.2	ug/kg	
37324-23-5	Aroclor 1262	14.4	35	2.7	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		24-152%
877-09-8	Tetrachloro-m-xylene	92%		24-152%
2051-24-3	Decachlorobiphenyl	94%		10-166%
2051-24-3	Decachlorobiphenyl	102%		10-166%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	3.5	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Barium	62.3	21	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Beryllium	0.49	0.21	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Cadmium	< 0.53	0.53	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Chromium	18.9	1.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Copper	36.2	2.7	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Lead	7.9	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Manganese	603	1.6	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Mercury	< 0.035	0.035	mg/kg	1	01/18/18	01/18/18	JPM	SW846 7471B ¹
Nickel	21.1	4.2	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Selenium	< 2.1	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Silver	< 0.53	0.53	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Zinc	40.5	5.3	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²

(1) Instrument QC Batch: MA43589

(2) Instrument QC Batch: MA43590

(3) Prep QC Batch: MP5260

(4) Prep QC Batch: MP5278

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	01/18/18 14:47	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	18.9	1.5	mg/kg	1	01/18/18 14:47	RI	SW846 6010/7196A M
Cyanide	< 0.19	0.19	mg/kg	1	01/18/18 15:56	BM	SW846 9012B/LACHAT
Redox Potential Vs H2	242		mv	1	01/17/18 18:33	HS	ASTM D1498-76M
Solids, Percent	93.3		%	1	01/17/18 08:47	RI	SM2540 G-97
pH	7.93		su	1	01/17/18 19:47	HS	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

4.5
4

Report of Analysis

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Client Sample ID:	BM-25	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-25A	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	93.3
Method:	SW846 8151A SW846 8151/3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA131186.D	1	01/19/18 11:42	VDT	01/18/18 09:45	OP9338	GOA4481
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	17	12	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.5	3.0	ug/kg	
93-76-5	2,4,5-T	ND	3.5	1.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	72%		10-159%
19719-28-9	2,4-DCAA	97%		10-159%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M143329.D	1	01/19/18 04:29	CS	01/18/18 10:00	OP9341	EM6079
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	70	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	70	22	ug/kg	
	3&4-Methylphenol	ND	70	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	94	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	70	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	180	7.6	ug/kg	
120-12-7	Anthracene	ND	35	22	ug/kg	
1912-24-9	Atrazine	ND	70	15	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	8.6	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.8	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	8.4	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	70	5.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	70	14	ug/kg	
218-01-9	Chrysene	ND	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	7.5	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	70	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether ^a	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	70	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	16	ug/kg	
132-64-9	Dibenzofuran	ND	70	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	5.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	70	7.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	8.2	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	8.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	17	ug/kg	
78-59-1	Isophorone	ND	70	7.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.3	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.8	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.1	ug/kg	
91-20-3	Naphthalene	ND	35	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	70	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	ND	35	12	ug/kg	
129-00-0	Pyrene	ND	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8270D SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	73%		27-114%
118-79-6	2,4,6-Tribromophenol	78%		19-152%
4165-60-0	Nitrobenzene-d5	76%		26-134%
321-60-8	2-Fluorobiphenyl	79%		39-124%
1718-51-0	Terphenyl-d14	84%		36-134%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8081B SW846 3546		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G89113.D	1	01/18/18 11:30	CP	01/17/18 16:00	OP9329	G4G2332
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.64	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.68	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.57	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4' -DDD	ND	0.70	0.65	ug/kg	
72-55-9	4,4' -DDE	ND	0.70	0.62	ug/kg	
50-29-3	4,4' -DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		25-135%
877-09-8	Tetrachloro-m-xylene	85%		25-135%
2051-24-3	Decachlorobiphenyl	93%		10-156%
2051-24-3	Decachlorobiphenyl	93%		10-156%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-26						
Lab Sample ID:	JC58956-26					Date Sampled:	01/15/18
Matrix:	SO - Solid					Date Received:	01/16/18
Method:	SW846 8082A SW846 3546					Percent Solids:	94.7
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX222491.D	1	01/18/18 10:18	HB	01/17/18 16:00	OP9328	GXX6224
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	14	ug/kg	
11104-28-2	Aroclor 1221	ND	35	14	ug/kg	
11141-16-5	Aroclor 1232	ND	35	9.4	ug/kg	
53469-21-9	Aroclor 1242	ND	35	5.6	ug/kg	
12672-29-6	Aroclor 1248	ND	35	21	ug/kg	
11097-69-1	Aroclor 1254	ND	35	8.7	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	ug/kg	
11100-14-4	Aroclor 1268	ND	35	5.2	ug/kg	
37324-23-5	Aroclor 1262	7.5	35	2.7	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		24-152%
877-09-8	Tetrachloro-m-xylene	86%		24-152%
2051-24-3	Decachlorobiphenyl	94%		10-166%
2051-24-3	Decachlorobiphenyl	96%		10-166%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.6	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Barium	53.6	21	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Beryllium ^a	0.48	0.42	mg/kg	2	01/17/18	01/18/18	ND	SW846 6010C ²
Cadmium	< 0.53	0.53	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Chromium	19.0	1.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Copper	62.8	2.6	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Lead	5.1	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Manganese	662	1.6	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Mercury	< 0.034	0.034	mg/kg	1	01/18/18	01/18/18	JPM	SW846 7471B ¹
Nickel	23.1	4.2	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Selenium	< 2.1	2.1	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²
Silver ^a	< 1.1	1.1	mg/kg	2	01/17/18	01/18/18	ND	SW846 6010C ²
Zinc	44.6	5.3	mg/kg	1	01/17/18	01/18/18	ND	SW846 6010C ²

(1) Instrument QC Batch: MA43589

(2) Instrument QC Batch: MA43590

(3) Prep QC Batch: MP5260

(4) Prep QC Batch: MP5278

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BM-26	Date Sampled:	01/15/18
Lab Sample ID:	JC58956-26	Date Received:	01/16/18
Matrix:	SO - Solid	Percent Solids:	94.7
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.42	0.42	mg/kg	1	01/18/18 14:48	RI	SW846 3060A/7196A
Chromium, Trivalent ^a	19.0	1.5	mg/kg	1	01/18/18 14:48	RI	SW846 6010/7196A M
Cyanide	< 0.13	0.13	mg/kg	1	01/18/18 15:57	BM	SW846 9012B/LACHAT
Redox Potential Vs H2	231		mv	1	01/17/18 19:36	HS	ASTM D1498-76M
Solids, Percent	94.7		%	1	01/17/18 08:47	RI	SM2540 G-97
pH	8.17		su	1	01/17/18 19:50	HS	SW846 9045D

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

4.7
4

Report of Analysis

Page 1 of 1

Client Sample ID:	BM-26						
Lab Sample ID:	JC58956-26A					Date Sampled:	01/15/18
Matrix:	SO - Solid					Date Received:	01/16/18
Method:	SW846 8151A SW846 8151/3546					Percent Solids:	94.7
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA131187.D	1	01/19/18 12:10	VDT	01/18/18 09:45	OP9338	GOA4481
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	5.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	17	12	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	3.4	2.9	ug/kg	
93-76-5	2,4,5-T	ND	3.4	1.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	54%		10-159%
19719-28-9	2,4-DCAA	66%		10-159%

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

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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JC58956
Account: ERMCT ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		SW846 6010/7196A M	SO	SGS is not certified for this parameter. ^a
Redox Potential Vs H2		ASTM D1498-76M	SO	SGS is not certified for this parameter. ^a

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

[illegible]



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
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TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 2 OF 3

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job #

JC58956

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name ERM	Project Name AD - Orangeburg NY						
Street Address 99 E. River Dr	Street						
City Ellington CT	City						
State CT	State						
Zip 06108	Zip						
Project Contact Joseph Ferrel	Project #						
E-mail jferrel@erm.com	Street Address						
Phone # 603.466.8501	City						
Fax #	State						
Client Purchase Order #	Zip						
Project Manager	Attention:						
Sampler(s) Name(s) Brian Murphy	Phone # 610.207.0721						
SGS Accutest Sample #	Field ID / Point of Collection	MEQ/ID Vial #	Date	Time	Sampled by	Matrix	# of bottles
13	BM-13		11/5/18	1425	BM	5	1
14	BM-14			1431			1
15	BM-15			1436			1
16	BM-16			1438			1
17	BM-17			1442			1
18	BM-18			1445			1
19	BM-19			1450			1
20	BM-20			1452			1
21	BM-21			1455			1
22	BM-22			1459			1
23	BM-23			1505			1
24	BM-24			1515			1
Turnaround Time (Business days)							
Approved By (SGS Accutest PM): / Date:							
☐ Std. 10 Business Days							
☐ 5 Day RUSH							
☐ 3 Day RUSH							
☐ 2 Day RUSH							
☒ 1 Day RUSH							
☐ other							
Emergency & Rush TIA data available VIA Lablink							
Data Deliverable Information							
☐ Commercial "A" (Level 1)							
☐ Commercial "B" (Level 2)							
☐ FULLT1 (Level 3+4)							
☐ NJ Reduced							
☐ Commercial "C"							
☐ NJ Data of Known Quality Protocol Reporting							
Commercial "A" = Results Only, Commercial "B" = Results + QC Summary							
NJ Reduced = Results + QC Summary + Partial Raw data							
Sample inventory is verified upon receipt in the Laboratory							
Comments / Special Instructions							

Form:SM088-01CRev.Date:9/13/16

JC58956: Chain of Custody

Page 2 of 11



SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control # JCS8956
SGS Accutest Quote #	SGS Accutest Job #

[illegible]

SGS Sample Receipt Summary

Job Number: JC58956

Client: ERM, INC.

Project: AVERY DENNISON, 524 ROUTE 303, ORANGE

Date / Time Received: 1/16/2018 5:18:00 PM

Delivery Method: Accutest Courier

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.2);

Cooler Security
Y or N

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

Cooler Temperature
Y or N

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

Quality Control Preservation
Y or N N/A

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

Sample Integrity - Documentation
Y or N

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

Sample Integrity - Condition
Y or N

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

Sample Integrity - Instructions
Y or N N/A

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

Test Strip Lot #s:	pH 1-12: 216017	pH 12+: 208717
Other: (Specify)		

Comments Analyses not noted on COC. Comments to "See sample container labels".

-1, -3, -4, -5, -6, -8, -9, -11, -12, -14, -15, -19 Rec'd 1x 60ml jar with analysis 8260 TCL on lables. Sample matrix not amenable to Encore or Terracore kit collection, VOA lab to LL prep from intact volume as soon as possible.

-2, -7, -10, -13, -16, -17, -18, -20 Rec'd 1x 60ml jar with D8015IPA analysis on labels.

-21 thru -24 Rec'd 1x 2oz jar with SOL104 analysis on labels.

SM089-02
Rev. Date 12/1/16

JC58956: Chain of Custody

Page 4 of 11

Responded to by: Tammy McCloskey

Response Date: 1/17/18

Samples will need to be re-numbered, the first 2 pages of the chains (JC58956-1 through 24, client ID's BM-01 through BM-24) are 4 discrete samples each of which are to be run for SOL104, D8015IPA, V8260TCL20 and VMS+MEK.

The third page, samples JC58956-25 and -26, client ID's BM-25 and MB-26 are 2 discrete samples and each should be analyzed for H8151STD, XPPTCL11, AB8270TCL20, HM8, BE, CU, MN, NI, ZN, CN, CR3, XXCRA

Revised chains will be submitted to receiving.

All above per James Harvey 1/17/18.

Note that all volumes have been crushed by lab on 1/18/18 am.

5.2

5

JC58956: Chain of Custody

Page 5 of 11

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quinix #	SGS Accutest Job #

5C58956

5.25

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job #
JC58956	
Requested Analysis (see TEST CODE sheet)	
Matrix Codes	
DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
LAB USE ONLY	

Client / Reporting Information		Project Information	
Company Name ERM		Project Name AD - Orangeburg NY	
Street Address 99 E. River Dr		Street	
City Elizabethtown CT		City	
State CT		State	
Zip 06108		Zip	
Project Contact Jason Ferrel		Project #	
E-mail jferrel@erm.com		Street Address ERM	
Phone # 610.466.8501		Client Purchase Order #	
Fax #		City	
Sampler(s) Name(s) Brian Murphy		Project Manager	
Phone # 610.209.0724		Attention:	
SGS Accutest Sample #		Collection	
Field ID / Point of Collection		MEOH/DI Vial #	
Date		Time	
Sampled by		Matrix	
# of bottles		# of bottles	
H2O		H2O	
NO3		NO3	
HNO3		HNO3	
H2SO4		H2SO4	
NONE		NONE	
DI Water		DI Water	
MEOH		MEOH	
ENCORE		ENCORE	
Turnaround Time (Business days)		Data Deliverable Information	
Approved By (SGS Accutest PM): / Date:		Comments / Special Instructions	
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH ☐ 2 Day RUSH ☒ 1 Day RUSH ☐ other		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NJ Data of Known Quality Protocol Reporting Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data	
Emergency & Rush T/A data available VIA Lablink		Sample inventory is verified upon receipt in the Laboratory	
Relinquished By: 1		Relinquished By: 2	
Date Time: 11/16/18 10:50		Date Time: 11/16/18	
Relinquished By: 3		Relinquished By: 4	
Date Time:		Date Time:	
Relinquished By: 5		Relinquished By: 6	
Date Time:		Date Time:	
Custody Seal # 413		Custody Seal # 413	
☐ Intact ☐ Not intact		☐ Intact ☐ Not intact	
Preserved where applicable		Preserved where applicable	
On Ice		On Ice	
Cooler Temp. 16.32°C		Cooler Temp. 16.32°C	



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 3 OF 3

Client / Reporting Information				Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes																																																	
Company Name ERM				Project Name AD - Orangeburg NY										See Sample Containers Labels										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																	
Street Address 99 E River Dr				Street																																																																					
City State Zip Eastford CT 06108				City State																																																																					
Project Contact Jason Fomet Jason.Fomet@erm.com				Company Name ERM																																																																					
Phone # 860.466.8501				Project #																																																																					
Fax #				Client Purchase Order #										Street Address																																																											
Sampler(s) Name(s) Brian Murphy 610.209.0774				Project Manager										Attention:																																																											
SGS Accutest Sample #				Collection										Number of preserved Bottles										LAB USE ONLY																																																	
Field ID / Point of Collection				MECH/DI Vial #										Date Time Sampled by Matrix # of bottles																																																											
25 BM-25				11/5/18 1528 BM S 1																																																																					
26 BM-26				11/5/18 1540 BM S 1																																																																					
Turnaround Time (Business days)				Data Deliverable Information										Comments / Special Instructions																																																											
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH ☐ 2 Day RUSH ☒ 1 Day RUSH ☐ other				Approved By (SGS Accutest PM): / Date: _____ _____ _____										☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NJ Data of Known Quality Protocol Reporting Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data										☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other Sample inventory is verified upon receipt in the Laboratory																																																	
Emergency & Rush TIA data available VIA Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.																																																																					
Relinquished to Sampler: 1 [Signature]				Date Time: 11/6/18 1050										Received By: 1 Robert Chambers										Date Time: 11/6/18 1718										Received By: [Signature]																																							
Relinquished by Sampler: 3				Date Time:										Received By: 3										Date Time:										Received By:																																							
Relinquished by: 5				Date Time:										Received By: 5										Custody Seal # 413										☐ Intact ☐ Not Intact										Preserved where applicable ☐										On Ice ☐										Cooler Temp. 3-6 3.2°C									

Form:SM088-01CRev.Date:9/13/16

JC58956: Chain of Custody

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ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
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www.accutest.com

PAGE 2 OF 3

Client / Reporting Information			Project Information			Requested Analysis (see TEST CODE sheet)													Matrix Codes			
Company Name ERM			Project Name AD - Orangeburg NY			See Sample Certificates Label													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank			
Street Address 99 E. River Dr			Street																			
City State Zip Eastford CT 06108			City State																			
Project Contact Jason Ferret Jason.Ferret@erm.com			Project #																			
Phone # 860.446.8501			Client Purchase Order #			Billing Information (if different from Report to)													Matrix Codes			
Fax # 60205.0724			Project Manager			Company Name ERM													LAB USE ONLY			
Attention:																						
Sample(s) Name(s) Brown Mungly			MECH/DI Vial #																			
Field ID / Point of Collection			Date			Time			Sampled by			Matrix			# of bottles			Number of preserved bottles				
13 BM-13] 1			11/15/18			1425			BM			S			1			V8200P220, VM+MEL			X	
14 BM-14] 1						1431									1			D801510A			X	
15 BM-15] 2						1436									1			SOL 104			X	
16 BM-16] 2						1438									1							
17 BM-17] 3						1442									1							
18 BM-18] 3						1445									1							
19 BM-19] 4						1450									1							
20 BM-20] 4						1452									1							
21 BM-21] 1						1455									1							
22 BM-22] 2						1459									1							
23 BM-23] 3						1505									1							
24 BM-24] 4						1515									1							
Turnaround Time (Business days)			Data Deliverable Information			Comments / Special Instructions																
Emergency & Rush T/A data available VIA Lablink			Approved By (SGS Accutest PM) / Date:			Data Deliverable Information																
Std. 10 Business Days						Commercial "A" (Level 1)																
5 Day RUSH						Commercial "B" (Level 2)																
3 Day RUSH						FULLT1 (Level 3+4)																
1 Day RUSH						NJ Reduced																
other						Commercial "C"																
						NJ Data of Known Quality Protocol Reporting																
						Commercial "A" = Results Only, Commercial "B" = Results + QC Summary																
						NJ Reduced = Results + QC Summary + Partial Raw data																
						Sample inventory is verified upon receipt in the Laboratory																
Relinquished by Sampler:			Date Time:			Received By:			Relinquished By:			Date Time:			Received By:							
3			11/16/18 1450			1 Robert chambers			2 Robert chambers			11/16/18			2							
Relinquished by:			Date Time:			Received By:			Relinquished By:			Date Time:			Received By:							
5						3			4						4							
Custody Seal #			Intact			Not Intact			Preserved where applicable			On Ice			Cooler Temp.							
413															56.32°C							

Form:SM088-01CRev.Date:9/13/16

JC58956: Chain of Custody

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SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

Client / Reporting Information			Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes			
Company Name ERM			Project Name: AD - Orangeburg NY										48151 STD, XPTCLII, AB88270 TEL 20 MA 8, BE, CH, MN, NE, ZN, CN, CAR3 XX CARA <i>See Sample Containers labels</i>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank			
Street Address 99 E River Dr			Street AD - Orangeburg NY																							
City State Zip E Hartford CT 06108			Billing Information (if different from Report to) ERM																							
Project Contact Jason Ford Jason.Ford@erm.com			Project # ERM																							
Phone # Fax # 860.466.8501			Client Purchase Order #																							
Sampler(s) Name(s) Brian Murphy 610.209.0724			Project Manager																							
SGS Accutest Sample #	Field ID / Point of Collection		MECH/DI Val #	Collection				Matrix	# of bottles	Number of preserved Bottles																
				Date	Time	Sampled by	HCl			NH3	HNO3	H2SO4	None	Dil Water	MEDH	ENCODE										
25	BM-25			11/15/08	1528	BM	S	1									X	X	X							
26	BM-26			11/15/08	1540	BM	S	1									X	X	X							
Turnaround Time (Business days)			Data Deliverable Information										Comments / Special Instructions													
☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day RUSH ☐ 2 Day RUSH ☒ 1 Day RUSH ☐ other _____			Approved By (SGS Accutest PMT) / Date: _____ _____ _____ _____ _____										☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☐ NJ Reduced ☐ Commercial "C" ☐ NJ Data of Known Quality Protocol Reporting ☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other _____													
Emergency & Rush T/A data available VIA Lablink			Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data										Sample inventory is verified upon receipt in the Laboratory													
Sample Custody must be documented below each time samples change possession, including courier delivery.																										
Relinquished by Sampler: 1 [Signature]			Date Time: 11/16/08 1050			Received By: 1 Robert Chambers			Date Time: 11/16/08			Relinquished By: 2 Robert Chambers			Date Time: 11/16/08			Received By: 2 [Signature]								
Relinquished by Sampler: 3 [Signature]			Date Time:			Received By: 3			Date Time:			Relinquished By: 4			Date Time:			Received By: 4								
Relinquished by: 5			Date Time:			Received By: 5			Date Time:			Custody Seal # 413			☐ Intact ☐ Not intact			Preserved where applicable ☐			On ice ☐			Cooler Temp. 37.0°C		

Report Date:
22-May-18 16:36

Laboratory Report SC46117

Environmental Resources Management
99 East River Drive, 3rd Floor
East Hartford, CT 06108
Attn: Jason Fernet

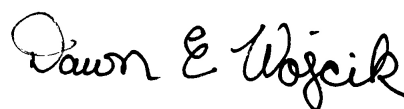
Project: Avery - Orangeburg, NY
Project #: 0438688

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 121 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC46117
Project: Avery - Orangeburg, NY
Project Number: 0438688

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC46117-01	TB042518	Trip Blank	25-Apr-18 09:00	26-Apr-18 19:20
SC46117-02	FB042518	Field Blank	25-Apr-18 15:00	26-Apr-18 19:20
SC46117-03	TB042618	Trip Blank	26-Apr-18 09:00	26-Apr-18 19:20
SC46117-04	FB042618	Field Blank	26-Apr-18 15:00	26-Apr-18 19:20
SC46117-05	SB-04-1	Soil	25-Apr-18 11:19	26-Apr-18 19:20
SC46117-06	SB-04-4	Soil	25-Apr-18 11:30	26-Apr-18 19:20
SC46117-08	SB-08-1	Soil	25-Apr-18 11:45	26-Apr-18 19:20
SC46117-09	SB-08-4	Soil	25-Apr-18 12:00	26-Apr-18 19:20
SC46117-11	SB-12-1	Soil	25-Apr-18 12:20	26-Apr-18 19:20
SC46117-12	SB-12-4	Soil	25-Apr-18 12:30	26-Apr-18 19:20
SC46117-14	SB-11-1	Soil	25-Apr-18 12:48	26-Apr-18 19:20
SC46117-15	SB-11-4	Soil	25-Apr-18 13:00	26-Apr-18 19:20
SC46117-20	SB-07-1	Soil	25-Apr-18 14:00	26-Apr-18 19:20
SC46117-21	SB-07-4	Soil	25-Apr-18 14:15	26-Apr-18 19:20
SC46117-22	SB-07-8	Soil	25-Apr-18 14:30	26-Apr-18 19:20
SC46117-23	SB-03-1	Soil	25-Apr-18 14:40	26-Apr-18 19:20
SC46117-24	SB-03-4	Soil	25-Apr-18 14:45	26-Apr-18 19:20
SC46117-25	SB-03-8	Soil	25-Apr-18 14:55	26-Apr-18 19:20
SC46117-26	SB-01-2	Soil	26-Apr-18 09:00	26-Apr-18 19:20
SC46117-27	SB-01-4	Soil	26-Apr-18 09:15	26-Apr-18 19:20
SC46117-29	DUP042618	Soil	26-Apr-18 00:00	26-Apr-18 19:20
SC46117-30	DUP042618-2	Soil	26-Apr-18 00:00	26-Apr-18 19:20
SC46117-34	SB-02-2	Soil	26-Apr-18 10:55	26-Apr-18 19:20
SC46117-35	SB-02-5	Soil	26-Apr-18 11:05	26-Apr-18 19:20

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 3.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

May 22, 2018 Report Revision Case Narrative:

This report has been revised to include analyses added as listed in the appendix at the end of this report.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8015D MOD

Laboratory Control Samples:

CA37728-LCS

This parameter is outside laboratory rpd specified recovery limits.

Propanol

Samples:

SC46117-02 *FB042518*

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol
Methanol
n-Butyl alcohol
Propanol
Sec-Butanol

SC46117-04 *FB042618*

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol
Methanol
n-Butyl alcohol
Propanol
Sec-Butanol

SW8015D MOD

Samples:

SC46117-20 SB-07-1

Alcohol Comment: Low surrogate recovery pbserved. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-21 SB-07-4

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-23 SB-03-1

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-24 SB-03-4

Alcohol Comment: Low surrogate recovery pbserved. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

SW8015D MOD

Samples:

SC46117-24 *SB-03-4*

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC46117-26 *SB-01-2*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC46117-27 *SB-01-4*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC46117-29 *DUP042618*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

SW8015D MOD

Samples:

SC46117-29 *DUP042618*

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-30 *DUP042618-2*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-34 *SB-02-2*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

SC46117-35 *SB-02-5*

Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.

% 2-Pentanol(surr)

SW8015D MOD

Samples:

SC46117-35 SB-02-5

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

CA37728-LCSD

This parameter is outside laboratory rpd specified recovery limits.

Propanol

CA37728-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Methanol

Propanol

CA37728-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Methanol

Propanol

CA37730-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Methanol

CA37730-MSD

This parameter is outside laboratory ms/msd specified recovery limits.

Methanol

SW846 8260C

Calibration:

1803021

Calibration:

1803021

Analyte quantified by quadratic equation type calibration.

1,1,1-Trichloroethane
1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Butylbenzene
sec-Butylbenzene
Styrene
trans-1,3-Dichloropropene
Trichlorofluoromethane (Freon 11)

This affected the following samples:

1805860-BLK1
1805860-BS1
1805860-BSD1
FB042518
FB042618
S817374-ICV1
S818941-CCV1
TB042518

1804018

Analyte quantified by quadratic equation type calibration.

1,2-Dibromo-3-chloropropane
1,4-Dioxane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Naphthalene
Tert-Butanol / butyl alcohol
Tetrahydrofuran
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1804018

This affected the following samples:

1805846-BLK1
1805846-BS1
1805846-BSD1
1805848-BLK1
1805848-BS1
1805848-BSD1
1805934-BLK1
1805934-BS1
1805934-BSD1
DUP042618
DUP042618-2
S818269-ICV1
S818935-CCV1
S818936-CCV1
S818998-CCV1
SB-01-2
SB-01-4
SB-02-2
SB-02-5
SB-03-1
SB-03-4
SB-07-1
SB-07-4
TB042618

1804024

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Isopropyltoluene
Bromoform
Carbon tetrachloride
Isopropylbenzene
Naphthalene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene

This affected the following samples:

S818424-ICV1

S817374-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Bromomethane (71%)

SW846 8260C

Calibration:

S817374-ICV1

This affected the following samples:

1805860-BLK1
1805860-BS1
1805860-BSD1
1805954-BLK1
1805954-BS1
1805954-BSD1
FB042518
FB042618
S818941-CCV1
S818970-CCV1
SB-03-1
TB042518
TB042618

S818269-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Bromomethane (75%)
Tert-Butanol / butyl alcohol (127%)

This affected the following samples:

1805846-BLK1
1805846-BS1
1805846-BSD1
1805848-BLK1
1805848-BS1
1805848-BSD1
1805934-BLK1
1805934-BS1
1805934-BSD1
DUP042618
DUP042618-2
S818935-CCV1
S818936-CCV1
S818998-CCV1
SB-01-2
SB-01-4
SB-02-2
SB-02-5
SB-03-1
SB-03-4
SB-07-1
SB-07-4
TB042618

S819255-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Bromomethane (72%)

This affected the following samples:

1806965-BLK1
1806965-BS1
1806965-BSD1
S819522-CCV1

Laboratory Control Samples:

1805846 BS/BSD

1,3,5-Trichlorobenzene percent recoveries (135/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

Acetone percent recoveries (148/133) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

Ethanol percent recoveries (127/132) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

Ethyl ether percent recoveries (139/126) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

Hexachlorobutadiene percent recoveries (133/139) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

Tert-Butanol / butyl alcohol percent recoveries (146/98) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

SW846 8260C

Laboratory Control Samples:

1805846 BS/BSD

Trichlorofluoromethane (Freon 11) percent recoveries (147/154) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

1805846 BSD

Tert-Butanol / butyl alcohol RPD 40% (30%) is outside individual acceptance criteria.

1805848 BS/BSD

Acetone percent recoveries (149/145) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

Ethanol percent recoveries (130/134) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

Ethyl ether percent recoveries (126/131) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

Hexachlorobutadiene percent recoveries (143/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

Tetrahydrofuran percent recoveries (62/79) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

SW846 8260C

Laboratory Control Samples:

1805848 BS/BSD

Trichlorofluoromethane (Freon 11) percent recoveries (159/164) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP042618
DUP042618-2
SB-02-2
SB-02-5

1805860 BS/BSD

Tert-Butanol / butyl alcohol percent recoveries (133/113) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

FB042518
FB042618
TB042518

1805934 BS/BSD

1,3,5-Trichlorobenzene percent recoveries (128/139) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TB042618

Acetone percent recoveries (159/147) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TB042618

Carbon tetrachloride percent recoveries (129/132) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TB042618

Hexachlorobutadiene percent recoveries (145/148) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TB042618

Trichlorofluoromethane (Freon 11) percent recoveries (158/159) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TB042618

1805954 BS/BSD

1,1-Dichloroethene percent recoveries (119/135) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-03-1
TB042618

Vinyl chloride percent recoveries (130/139) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-03-1
TB042618

1806965 BS/BSD

SW846 8260C

Laboratory Control Samples:

1806965 BS/BSD

Acetone percent recoveries (62/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-03-8
SB-04-1
SB-04-4
SB-07-8
SB-08-1
SB-08-4
SB-11-1
SB-11-4
SB-12-1
SB-12-4

1806967 BS/BSD

1,2,3-Trichlorobenzene percent recoveries (62/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-04-1

1,2,4-Trichlorobenzene percent recoveries (63/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-04-1

1,3-Dichlorobenzene percent recoveries (134/130) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-04-1

Naphthalene percent recoveries (61/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-04-1

trans-1,4-Dichloro-2-butene percent recoveries (131/127) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-04-1

Samples:

S818935-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3,5-Trichlorobenzene (29.8%)
1,3-Dichlorobenzene (26.0%)
Acetone (41.4%)
Bromoform (23.1%)
Di-isopropyl ether (-24.4%)
Ethanol (38.9%)
Ethyl ether (43.9%)
Hexachlorobutadiene (29.2%)
Trichlorofluoromethane (Freon 11) (50.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Tert-Butanol / butyl alcohol (37.8%)

SW846 8260C

Samples:

S818935-CCV1

This affected the following samples:

1805846-BLK1
1805846-BS1
1805846-BSD1
SB-01-2
SB-01-4
SB-03-1
SB-03-4
SB-07-1
SB-07-4

S818936-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3-Dichlorobenzene (27.4%)
Acetone (72.2%)
Bromoform (25.3%)
Carbon tetrachloride (23.5%)
Di-isopropyl ether (-25.2%)
Ethanol (37.5%)
Ethyl ether (35.4%)
Hexachlorobutadiene (36.5%)
sec-Butylbenzene (23.9%)
tert-Butylbenzene (20.1%)
Tetrachloroethene (22.4%)
Trichlorofluoromethane (Freon 11) (55.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Tert-Butanol / butyl alcohol (47.6%)

This affected the following samples:

1805848-BLK1
1805848-BS1
1805848-BSD1
DUP042618
DUP042618-2
SB-02-2
SB-02-5

S818941-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (21.4%)
Acrylonitrile (30.6%)
Ethyl ether (23.0%)
Methylene chloride (21.9%)
Tert-Butanol / butyl alcohol (23.6%)
Vinyl chloride (20.3%)

SW846 8260C

Samples:

S818941-CCV1

This affected the following samples:

1805860-BLK1
1805860-BS1
1805860-BSD1
FB042518
FB042618
TB042518

S818970-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Acrylonitrile (21.4%)
Bromodichloromethane (21.5%)
Vinyl chloride (29.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (23.0%)
Trichlorofluoromethane (Freon 11) (26.0%)

This affected the following samples:

1805954-BLK1
1805954-BS1
1805954-BSD1
SB-03-1
TB042618

S818998-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3,5-Trichlorobenzene (28.4%)
1,3,5-Trimethylbenzene (20.9%)
1,3-Dichlorobenzene (27.7%)
Acetone (58.8%)
Acrylonitrile (-26.0%)
Carbon tetrachloride (28.5%)
Di-isopropyl ether (-26.5%)
Ethanol (21.9%)
Ethyl ether (22.6%)
Hexachlorobutadiene (44.8%)
sec-Butylbenzene (26.9%)
tert-Butylbenzene (24.5%)
Tetrachloroethene (26.5%)
Trichlorofluoromethane (Freon 11) (58.4%)

This affected the following samples:

1805934-BLK1
1805934-BS1
1805934-BSD1
TB042618

S819522-CCV1

SW846 8260C

Samples:

S819522-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (-29.5%)
Dichlorodifluoromethane (Freon12) (20.1%)
Tetrachloroethene (23.8%)

This affected the following samples:

1806965-BLK1
1806965-BS1
1806965-BSD1
SB-03-8
SB-04-1
SB-04-4
SB-07-8
SB-08-1
SB-08-4
SB-11-1
SB-11-4
SB-12-1
SB-12-4

S819524-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-20.9%)
1,3,5-Trichlorobenzene (-28.3%)
1,3-Dichlorobenzene (33.8%)
Ethyl ether (21.1%)
Hexachlorobutadiene (-29.6%)
trans-1,3-Dichloropropene (21.2%)
trans-1,4-Dichloro-2-butene (31.3%)
Trichlorofluoromethane (Freon 11) (25.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (-38.2%)
1,2,4-Trichlorobenzene (-37.4%)
Bromomethane (29.6%)
Carbon tetrachloride (23.2%)
Naphthalene (-39.1%)

This affected the following samples:

1806967-BLK1
1806967-BS1
1806967-BSD1
SB-04-1

SC46117-05 *SB-04-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Dibromofluoromethane

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-05RE1 *SB-04-1*

SW846 8260C

Samples:

SC46117-05RE1 *SB-04-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-06 *SB-04-4*

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-08 *SB-08-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Toluene-d8

This compound was over the instrument calibration range and was not re-analyzed from the Methanol vial because a minimum 50x dilution factor is required. The dilution factor combined with reporting limit would mean the final concentration would be BRL.

Acetone

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-09 *SB-08-4*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Dibromofluoromethane

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-11 *SB-12-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Dibromofluoromethane

This compound was over the instrument calibration range and was not re-analyzed from the Methanol vial because a minimum 50x dilution factor is required. The dilution factor combined with reporting limit would mean the final concentration would be BRL.

Acetone

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-12 *SB-12-4*

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-14 *SB-11-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

4-Bromofluorobenzene

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-15 *SB-11-4*

SW846 8260C

Samples:

SC46117-15 *SB-11-4*

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-20 *SB-07-1*

This compound was over the instrument calibration range and was not re-analyzed from the Methanol vial because a minimum 50x dilution factor is required. The dilution factor combined with reporting limit would mean the final concentration would be BRL.

Acetone

SC46117-22 *SB-07-8*

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-23 *SB-03-1*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Dibromofluoromethane

SC46117-23RE1 *SB-03-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC46117-25 *SB-03-8*

This sample was analyzed outside the EPA recommended holding time per client request.

SC46117-29 *DUP042618*

This compound is a common laboratory contaminant.

Methylene chloride

SC46117-30 *DUP042618-2*

This compound is a common laboratory contaminant.

Methylene chloride

SC46117-34 *SB-02-2*

This compound is a common laboratory contaminant.

Methylene chloride

SC46117-35 *SB-02-5*

This compound is a common laboratory contaminant.

Methylene chloride

VOC Soil Extraction

Samples:

SC46117-05 *SB-04-1*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-06 *SB-04-4*

VOC Soil Extraction

Samples:

SC46117-06 *SB-04-4*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-08 *SB-08-1*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-09 *SB-08-4*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-11 *SB-12-1*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-12 *SB-12-4*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-14 *SB-11-1*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-15 *SB-11-4*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-22 *SB-07-8*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

SC46117-25 *SB-03-8*

This sample was analyzed outside the EPA recommended holding time per client request.

VOC Extraction

Sample Acceptance Check Form

Client: Environmental Resources Management - Hartford, CT
Project: Avery - Orangeburg, NY / 0438688
Work Order: SC46117
Sample(s) received on: 4/26/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC46117-05

Client ID: SB-04-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	880	E	67.0	µg/kg	SW846 8260C

Lab ID: SC46117-05RE1

Client ID: SB-04-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	372	D	303	µg/kg	SW846 8260C
Naphthalene	50.9	J, D	60.6	µg/kg	SW846 8260C
Toluene	33.3	J, D	60.6	µg/kg	SW846 8260C

Lab ID: SC46117-06

Client ID: SB-04-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	28.2	J	52.1	µg/kg	SW846 8260C

Lab ID: SC46117-08

Client ID: SB-08-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	251		VOC1148.8	µg/kg	SW846 8260C

Lab ID: SC46117-11

Client ID: SB-12-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	341		VOC1153.8	µg/kg	SW846 8260C

Lab ID: SC46117-12

Client ID: SB-12-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	106		46.7	µg/kg	SW846 8260C

Lab ID: SC46117-14

Client ID: SB-11-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	85.9		48.6	µg/kg	SW846 8260C

Lab ID: SC46117-20

Client ID: SB-07-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	57.6		12.2	µg/kg	SW846 8260C
Acetone	309		VOC1160.9	µg/kg	SW846 8260C
Methylene chloride	7.00	J	12.2	µg/kg	SW846 8260C
Tert-Butanol / butyl alcohol	72.0		60.9	µg/kg	SW846 8260C
Toluene	3.36	J	6.09	µg/kg	SW846 8260C

Lab ID: SC46117-21

Client ID: SB-07-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	86.9		9.79	µg/kg	SW846 8260C
Acetone	154		48.9	µg/kg	SW846 8260C
Methylene chloride	4.66	J	9.79	µg/kg	SW846 8260C
Toluene	27.4		4.89	µg/kg	SW846 8260C

Lab ID: SC46117-23

Client ID: SB-03-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	33.0		14.4	µg/kg	SW846 8260C
Acetone	1400	E	72.1	µg/kg	SW846 8260C
Ethanol	470	J	1440	µg/kg	SW846 8260C
Methylene chloride	16.4		14.4	µg/kg	SW846 8260C
Toluene	18.6		7.21	µg/kg	SW846 8260C

Lab ID: SC46117-23RE1

Client ID: SB-03-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	22.5	J, D	54.8	µg/kg	SW846 8260C
4-Isopropyltoluene	49.9	J, D	54.8	µg/kg	SW846 8260C
Acetone	437	D	274	µg/kg	SW846 8260C
m,p-Xylene	34.5	J, D	110	µg/kg	SW846 8260C
Methylene chloride	27.4	J, D	110	µg/kg	SW846 8260C
Toluene	72.9	D	54.8	µg/kg	SW846 8260C

Lab ID: SC46117-24

Client ID: SB-03-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	83.4		67.3	µg/kg	SW846 8260C
Ethylbenzene	2.92	J	6.73	µg/kg	SW846 8260C
m,p-Xylene	5.88	J	13.5	µg/kg	SW846 8260C
Methylene chloride	4.99	J	13.5	µg/kg	SW846 8260C
Toluene	5.01	J	6.73	µg/kg	SW846 8260C

Lab ID: SC46117-26

Client ID: SB-01-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Methylene chloride	5.06	J	11.2	µg/kg	SW846 8260C

Lab ID: SC46117-27

Client ID: SB-01-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Ethanol	6.1		5.8	mg/kg	SW8015D MOD
Methanol	15	Q1	5.8	mg/kg	SW8015D MOD
Acetone	32.1	J	54.4	µg/kg	SW846 8260C
Methylene chloride	5.11	J	10.9	µg/kg	SW846 8260C

Lab ID: SC46117-29

Client ID: DUP042618

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Methylene chloride	4.94	O01, J	11.9	µg/kg	SW846 8260C
Toluene	4.39	J	5.93	µg/kg	SW846 8260C

Lab ID: SC46117-30

Client ID: DUP042618-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Methylene chloride	5.72	O01, J	10.7	µg/kg	SW846 8260C

Lab ID: SC46117-34**Client ID:** SB-02-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Ethanol	6.5		5.7	mg/kg	SW8015D MOD
Methylene chloride	5.53	O01, J	12.4	µg/kg	SW846 8260C

Lab ID: SC46117-35**Client ID:** SB-02-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Ethylbenzene	0.98	J	6.80	µg/kg	SW846 8260C
m,p-Xylene	6.21	J	13.6	µg/kg	SW846 8260C
Methylene chloride	10.7	O01, J	13.6	µg/kg	SW846 8260C
o-Xylene	2.35	J	6.80	µg/kg	SW846 8260C
Toluene	32.9		6.80	µg/kg	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

TB042518	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-01	0438688	Trip Blank	25-Apr-18 09:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TB042518	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-01	0438688	Trip Blank	25-Apr-18 09:00	26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %		"	"	"	"	"	"	

Sample Identification

FB042518

SC46117-02

Client Project #

0438688

Matrix

Field Blank

Collection Date/Time

25-Apr-18 15:00

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

FB042518	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-02	0438688	Field Blank	25-Apr-18 15:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98	70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	101	70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	110	70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	108	70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428596-SW80

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

FB042518	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-02	0438688	Field Blank	25-Apr-18 15:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428596-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 1.0		mg/l	1.0	1.0	1	SW8015D MOD	30-Apr-18	01-May-18 17:03	PH061	428596A	
78-83-1	Isobutyl alcohol	< 1.0		mg/l	1.0	1.0	1	"	"	"	"	"	"
67-63-0	Isopropyl alcohol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	"
67-56-1	Methanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	"
71-36-3	n-Butyl alcohol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	"
71-23-8	Propanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	"
78-92-2	Sec-Butanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	"

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	83			70-130 %			"	"	"	"	"	"
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Sample Identification

TB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-03	0438688	Trip Blank	26-Apr-18 09:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	2.54	1	SW846 8260C	02-May-18	02-May-18	GMA	1805934	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.06	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.24	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.72	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	6.14	1	"	"	"	"	"	X

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Sample Identification

TB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-03	0438688	Trip Blank	26-Apr-18 09:00	26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

98-82-8	Isopropylbenzene	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	02-May-18	02-May-18	GMA	1805934	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	1.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	7.88	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	101		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	118		70-130 %	"	"	"	"	"

Re-analysis of Volatile Organic Compoundsby SW846 8260Prepared by method SW846 5035A Soil (high level)

Sample Identification

TB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-03	0438688	Trip Blank	26-Apr-18 09:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0	25.4	50	SW846 8260C	02-May-18	02-May-18	MP	1805954	X
67-64-1	Acetone	< 500	U, D	µg/kg wet	500	200	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0	48.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 50.0	U, D	µg/kg wet	50.0	13.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 50.0	U, D	µg/kg wet	50.0	13.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0	25.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 100	U, D	µg/kg wet	100	89.4	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	14.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.10	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	11.2	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 100	U, D	µg/kg wet	100	32.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	20.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	12.4	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.8	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100	72.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0	33.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 50.0	U, D	µg/kg wet	50.0	26.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	14.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	13.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	17.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	25.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	23.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	16.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0	7.20	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0	25.1	50	"	"	"	"	"	X

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Sample Identification

TB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-03	0438688	Trip Blank	26-Apr-18 09:00	26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

591-78-6	2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100	61.4	50	SW846 8260C	02-May-18	02-May-18	MP	1805954	X
98-82-8	Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.85	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	18.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100	25.7	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	19.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.0	U, D	µg/kg wet	50.0	29.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.10	50	"	"	"	"	"	X
100-42-5	Styrene	< 50.0	U, D	µg/kg wet	50.0	10.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 50.0	U, D	µg/kg wet	50.0	16.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	17.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	36.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.7	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0	37.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	12.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.60	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 100	U, D	µg/kg wet	100	9.00	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 50.0	U, D	µg/kg wet	50.0	14.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 100	U, D	µg/kg wet	100	78.8	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 50.0	U, D	µg/kg wet	50.0	45.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0	16.7	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0	9.30	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500	327	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1000	U, D	µg/kg wet	1000	868	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	U, D	µg/kg wet	250	114	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	U, D	µg/kg wet	10000	1860	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %	"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %	"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	114			70-130 %	"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %	"	"	"	"	"	"	"	

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Sample Identification

FB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-04	0438688	Field Blank	26-Apr-18 15:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.58	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.76	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.36	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.29	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.30	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.33	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	0.63	1	"	"	"	"	"	X

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Sample Identification

FB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-04	0438688	Field Blank	26-Apr-18 15:00	26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.30	1	SW846 8260C	01-May-18	02-May-18	GMA	1805860	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.42	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.35	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.00	U	µg/l	2.00	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.33	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.26	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.39	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.54	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	0.50	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	3.13	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	5.81	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	0.61	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	13.2	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100		70-130 %	"	"	"	"	"
2037-26-5	Toluene-d8	101		70-130 %	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	117		70-130 %	"	"	"	"	"
1868-53-7	Dibromofluoromethane	108		70-130 %	"	"	"	"	"

Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428596-SW80

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

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Sample Identification

FB042618	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SC46117-04	0438688	Field Blank	26-Apr-18 15:00	26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428596-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 1.0		mg/l	1.0	1.0	1	SW8015D MOD	30-Apr-18	01-May-18 17:46	PH061	428596A	
78-83-1	Isobutyl alcohol	< 1.0		mg/l	1.0	1.0	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	
67-56-1	Methanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	
71-36-3	n-Butyl alcohol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	
71-23-8	Propanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 1.0	Q1	mg/l	1.0	1.0	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	84			70-130 %			"	"	"	"	"	
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Sample Identification

SB-04-1

SC46117-05

Client Project

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 11:19

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1, 009										
Initial weight: 7.58 g													
107-06-2	1,2-Dichloroethane	< 60.6	U, D	µg/kg dry	60.6	21.7	50	SW846 8260C	22-May-18	22-May-18	GMA	1806967	X
75-35-4	1,1-Dichloroethene	< 60.6	U, D	µg/kg dry	60.6	31.7	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 60.6	U, D	µg/kg dry	60.6	22.5	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 60.6	U, D	µg/kg dry	60.6	32.1	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 60.6	U, D	µg/kg dry	60.6	31.7	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 60.6	U, D	µg/kg dry	60.6	31.4	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 60.6	U, D	µg/kg dry	60.6	28.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 60.6	U, D	µg/kg dry	60.6	19.5	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 60.6	U, D	µg/kg dry	60.6	36.5	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 60.6	U, D	µg/kg dry	60.6	31.8	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 60.6	U, D	µg/kg dry	60.6	8.72	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 60.6	U, D	µg/kg dry	60.6	30.4	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 121	U, D	µg/kg dry	121	74.3	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 60.6	U, D	µg/kg dry	60.6	11.9	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 60.6	U, D	µg/kg dry	60.6	13.0	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 60.6	U, D	µg/kg dry	60.6	22.3	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 121	U, D	µg/kg dry	121	31.1	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 121	U, D	µg/kg dry	121	24.0	50	"	"	"	"	"	X
91-20-3	Naphthalene	50.9	J, D	µg/kg dry	60.6	36.0	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 60.6	U, D	µg/kg dry	60.6	9.81	50	"	"	"	"	"	X
100-42-5	Styrene	< 60.6	U, D	µg/kg dry	60.6	12.2	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 60.6	U, D	µg/kg dry	60.6	51.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 60.6	U, D	µg/kg dry	60.6	51.2	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 60.6	U, D	µg/kg dry	60.6	20.7	50	"	"	"	"	"	X
108-88-3	Toluene	33.3	J, D	µg/kg dry	60.6	19.6	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 60.6	U, D	µg/kg dry	60.6	21.3	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 60.6	U, D	µg/kg dry	60.6	44.6	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 60.6	U, D	µg/kg dry	60.6	19.0	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 60.6	U, D	µg/kg dry	60.6	20.1	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 60.6	U, D	µg/kg dry	60.6	43.9	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 60.6	U, D	µg/kg dry	60.6	16.5	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 60.6	U, D	µg/kg dry	60.6	32.6	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 60.6	U, D	µg/kg dry	60.6	45.4	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 60.6	U, D	µg/kg dry	60.6	14.7	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 60.6	U, D	µg/kg dry	60.6	10.4	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 60.6	U, D	µg/kg dry	60.6	20.5	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 121	U, D	µg/kg dry	121	10.9	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 60.6	U, D	µg/kg dry	60.6	17.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 121	U, D	µg/kg dry	121	95.5	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 60.6	U, D	µg/kg dry	60.6	54.9	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 60.6	U, D	µg/kg dry	60.6	20.2	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 60.6	U, D	µg/kg dry	60.6	32.6	50	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-04-1

SC46117-05

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 11:19

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1,
O09

Initial weight: 7.58 g

108-20-3	Di-isopropyl ether	< 60.6	U, D	µg/kg dry	60.6	11.3	50	SW846 8260C	22-May-18	22-May-18	GMA	1806967	
75-65-0	Tert-Butanol / butyl alcohol	< 606	U, D	µg/kg dry	606	396	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1210	U, D	µg/kg dry	1210	1050	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 303	U, D	µg/kg dry	303	138	50	"	"	"	"	"	X
64-17-5	Ethanol	< 12100	U, D	µg/kg dry	12100	2260	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	107			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	105			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	75.1	%					1	SM2540 G (11) Mod.	21-May-18	21-May-18	VO	1806941	
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Sample Identification

SB-04-4

SC46117-06

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 11:30

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.47 g

67-64-1	Acetone	28.2	J	µg/kg dry	52.1	20.8	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	109			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	99			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

86.8

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-08-1

SC46117-08

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 11:45

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.28 g

67-64-1	Acetone	251	VOC11, E	µg/kg dry	48.8	19.5	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	151	SGCMS VOC		70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	71			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

90.9

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-08-4

SC46117-09

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 12:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 4.29 g

67-64-1	Acetone	< 75.5	U	µg/kg dry	75.5	30.2	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	103			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	119			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	159	SGCMS VOC		70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

86.2

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-12-1

SC46117-11

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 12:20

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.75 g

67-64-1	Acetone	341	VOC11, E	µg/kg dry	53.8	21.5	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	101			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	55	SGCMS VOC		70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

83.8

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-12-4

SC46117-12

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 12:30

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.83 g

67-64-1	Acetone	106		µg/kg dry	46.7	18.7	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	105			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	88			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

89.6

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-11-1

SC46117-14

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 12:48

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.33 g

67-64-1	Acetone	85.9		µg/kg dry	48.6	19.4	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	157	SGCMS VOC		70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	111			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	81			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

90.8

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-11-4

SC46117-15

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 13:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 5.47 g

67-64-1	Acetone	< 62.2	U	µg/kg dry	62.2	24.9	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	72			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	129			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

85.3

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-07-1

SC46117-20

Client Project

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:00

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Prepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.22 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.09	U	µg/kg dry	6.09	3.09	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	309	VOC11, E	µg/kg dry	60.9	24.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.09	U	µg/kg dry	6.09	5.85	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.09	U	µg/kg dry	6.09	1.61	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.09	U	µg/kg dry	6.09	1.63	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.09	U	µg/kg dry	6.09	3.07	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.09	U	µg/kg dry	6.09	4.06	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.09	U	µg/kg dry	6.09	5.81	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.2	U	µg/kg dry	12.2	5.50	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	57.6		µg/kg dry	12.2	10.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.09	U	µg/kg dry	6.09	1.74	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.09	U	µg/kg dry	6.09	1.11	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.09	U	µg/kg dry	6.09	1.36	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.2	U	µg/kg dry	12.2	3.90	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.09	U	µg/kg dry	6.09	4.98	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.09	U	µg/kg dry	6.09	1.90	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.2	U	µg/kg dry	12.2	3.38	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.09	U	µg/kg dry	6.09	3.27	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.2	U	µg/kg dry	12.2	2.51	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.09	U	µg/kg dry	6.09	1.52	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.09	U	µg/kg dry	6.09	1.43	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.2	U	µg/kg dry	12.2	8.79	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.09	U	µg/kg dry	6.09	4.13	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.09	U	µg/kg dry	6.09	4.08	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.09	U	µg/kg dry	6.09	3.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.09	U	µg/kg dry	6.09	1.58	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.09	U	µg/kg dry	6.09	1.32	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.09	U	µg/kg dry	6.09	1.80	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.2	U	µg/kg dry	12.2	2.31	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.09	U	µg/kg dry	6.09	1.59	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.09	U	µg/kg dry	6.09	2.18	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.09	U	µg/kg dry	6.09	3.18	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.09	U	µg/kg dry	6.09	2.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.09	U	µg/kg dry	6.09	3.23	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.09	U	µg/kg dry	6.09	3.19	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.09	U	µg/kg dry	6.09	3.15	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.09	U	µg/kg dry	6.09	2.87	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.09	U	µg/kg dry	6.09	1.96	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.09	U	µg/kg dry	6.09	3.67	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-07-1

SC46117-20

Client Project

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:00

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Initial weight: 5.22 g													
10061-02-6	trans-1,3-Dichloropropene	< 6.09	U	µg/kg dry	6.09	3.20	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
100-41-4	Ethylbenzene	< 6.09	U	µg/kg dry	6.09	0.88	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 6.09	U	µg/kg dry	6.09	3.06	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.2	U	µg/kg dry	12.2	7.47	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.09	U	µg/kg dry	6.09	1.20	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.09	U	µg/kg dry	6.09	1.31	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.09	U	µg/kg dry	6.09	2.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.2	U	µg/kg dry	12.2	3.13	1	"	"	"	"	"	X
75-09-2	Methylene chloride	7.00	J	µg/kg dry	12.2	2.42	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.09	U	µg/kg dry	6.09	3.62	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.09	U	µg/kg dry	6.09	0.99	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.09	U	µg/kg dry	6.09	1.22	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.09	U	µg/kg dry	6.09	5.17	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.09	U	µg/kg dry	6.09	5.15	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.09	U	µg/kg dry	6.09	2.08	1	"	"	"	"	"	X
108-88-3	Toluene	3.36	J	µg/kg dry	6.09	1.97	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.09	U	µg/kg dry	6.09	2.14	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.09	U	µg/kg dry	6.09	4.49	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.09	U	µg/kg dry	6.09	1.91	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.09	U	µg/kg dry	6.09	2.02	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.09	U	µg/kg dry	6.09	4.41	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.09	U	µg/kg dry	6.09	1.66	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.09	U	µg/kg dry	6.09	3.28	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.09	U	µg/kg dry	6.09	4.56	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.09	U	µg/kg dry	6.09	1.48	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.09	U	µg/kg dry	6.09	1.05	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.09	U	µg/kg dry	6.09	2.06	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.2	U	µg/kg dry	12.2	1.10	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.09	U	µg/kg dry	6.09	1.70	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.2	U	µg/kg dry	12.2	9.59	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.09	U	µg/kg dry	6.09	5.51	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.09	U	µg/kg dry	6.09	2.03	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.09	U	µg/kg dry	6.09	3.28	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.09	U	µg/kg dry	6.09	1.13	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	72.0		µg/kg dry	60.9	39.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 122	U	µg/kg dry	122	106	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 30.4	U	µg/kg dry	30.4	13.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1220	U	µg/kg dry	1220	227	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	93			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %			"	"	"	"	"	

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Sample Identification

SB-07-1

SC46117-20

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260Initial weight: 5.22 g

1868-53-7	Dibromofluoromethane	116			70-130 %			SW846 8260C	01-May-18	01-May-18	GMA	1805846	
									8				

General Chemistry Parameters

% Solids	88.3			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.6		mg/kg	5.6	5.6	1	SW8015D MOD	02-May-18	03-May-18	PH061	428588A	
									8	8 03:20			
78-83-1	Isobutyl alcohol	< 5.6	Q3	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-56-1	Methanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-23-8	Propanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	57	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	89			%			1	SW846-%Solid	25-Apr-18	27-Apr-18	PH061	'[none]'	
									14:00	21:18			

Sample Identification

SB-07-4

SC46117-21

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:15

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)Initial weight: 6.77 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.89	U	µg/kg dry	4.89	2.48	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	154		µg/kg dry	48.9	19.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.89	U	µg/kg dry	4.89	4.70	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.89	U	µg/kg dry	4.89	1.30	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.89	U	µg/kg dry	4.89	1.31	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.89	U	µg/kg dry	4.89	2.47	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.89	U	µg/kg dry	4.89	3.26	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.89	U	µg/kg dry	4.89	4.67	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.79	U	µg/kg dry	9.79	4.42	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	86.9		µg/kg dry	9.79	8.75	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.89	U	µg/kg dry	4.89	1.40	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.89	U	µg/kg dry	4.89	0.89	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.89	U	µg/kg dry	4.89	1.10	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.79	U	µg/kg dry	9.79	3.13	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.89	U	µg/kg dry	4.89	4.00	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.89	U	µg/kg dry	4.89	1.53	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.79	U	µg/kg dry	9.79	2.72	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.89	U	µg/kg dry	4.89	2.63	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.79	U	µg/kg dry	9.79	2.02	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.89	U	µg/kg dry	4.89	1.22	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.89	U	µg/kg dry	4.89	1.15	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.79	U	µg/kg dry	9.79	7.07	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.89	U	µg/kg dry	4.89	3.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.89	U	µg/kg dry	4.89	3.28	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.89	U	µg/kg dry	4.89	2.54	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.89	U	µg/kg dry	4.89	1.27	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.89	U	µg/kg dry	4.89	1.06	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.89	U	µg/kg dry	4.89	1.45	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.79	U	µg/kg dry	9.79	1.85	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.89	U	µg/kg dry	4.89	1.28	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.89	U	µg/kg dry	4.89	1.75	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.89	U	µg/kg dry	4.89	2.56	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.89	U	µg/kg dry	4.89	1.82	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.89	U	µg/kg dry	4.89	2.59	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.89	U	µg/kg dry	4.89	2.56	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.89	U	µg/kg dry	4.89	2.53	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.89	U	µg/kg dry	4.89	2.31	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.89	U	µg/kg dry	4.89	1.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.89	U	µg/kg dry	4.89	2.95	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.89	U	µg/kg dry	4.89	2.57	1	"	"	"	"	"	X

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Sample Identification

SB-07-4

SC46117-21

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:15

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 6.77 g													
100-41-4	Ethylbenzene	< 4.89	U	µg/kg dry	4.89	0.70	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
87-68-3	Hexachlorobutadiene	< 4.89	U	µg/kg dry	4.89	2.46	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.79	U	µg/kg dry	9.79	6.00	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.89	U	µg/kg dry	4.89	0.96	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.89	U	µg/kg dry	4.89	1.05	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.89	U	µg/kg dry	4.89	1.80	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.79	U	µg/kg dry	9.79	2.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.66	J	µg/kg dry	9.79	1.94	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.89	U	µg/kg dry	4.89	2.91	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.89	U	µg/kg dry	4.89	0.79	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.89	U	µg/kg dry	4.89	0.98	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.89	U	µg/kg dry	4.89	4.16	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.89	U	µg/kg dry	4.89	4.14	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.89	U	µg/kg dry	4.89	1.67	1	"	"	"	"	"	X
108-88-3	Toluene	27.4		µg/kg dry	4.89	1.59	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.89	U	µg/kg dry	4.89	1.72	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.89	U	µg/kg dry	4.89	3.61	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.89	U	µg/kg dry	4.89	1.54	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.89	U	µg/kg dry	4.89	1.62	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.89	U	µg/kg dry	4.89	3.55	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.89	U	µg/kg dry	4.89	1.34	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.89	U	µg/kg dry	4.89	2.64	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.89	U	µg/kg dry	4.89	3.67	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.89	U	µg/kg dry	4.89	1.19	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.89	U	µg/kg dry	4.89	0.84	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.89	U	µg/kg dry	4.89	1.65	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.79	U	µg/kg dry	9.79	0.88	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.89	U	µg/kg dry	4.89	1.37	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.79	U	µg/kg dry	9.79	7.71	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.89	U	µg/kg dry	4.89	4.43	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.89	U	µg/kg dry	4.89	1.63	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.89	U	µg/kg dry	4.89	2.64	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.89	U	µg/kg dry	4.89	0.91	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 48.9	U	µg/kg dry	48.9	32.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 97.9	U	µg/kg dry	97.9	85.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 24.5	U	µg/kg dry	24.5	11.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 979	U	µg/kg dry	979	183	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	114			70-130 %			"	"	"	"	"	

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Sample Identification

SB-07-4

SC46117-21

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:15

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	87.9			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.6		mg/kg	5.6	5.6	1	SW8015D MOD	02-May-18	03-May-18 04:03	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.6	Q3	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-56-1	Methanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-23-8	Propanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	73			70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	89			%			1	SW846-%Solid	25-Apr-18 14:15	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

SB-07-8

SC46117-22

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:30

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 7.15 g

67-64-1	Acetone	< 46.5	U	µg/kg dry	46.5	18.6	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	116			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	108			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	104			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

88.1

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-03-1

SC46117-23

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:40

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 4.19 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.21	U	µg/kg dry	7.21	3.66	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	1,400	E	µg/kg dry	72.1	28.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.21	U	µg/kg dry	7.21	6.93	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.21	U	µg/kg dry	7.21	1.91	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.21	U	µg/kg dry	7.21	1.93	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.21	U	µg/kg dry	7.21	3.64	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.21	U	µg/kg dry	7.21	4.81	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.21	U	µg/kg dry	7.21	6.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.4	U	µg/kg dry	14.4	6.51	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	33.0		µg/kg dry	14.4	12.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.21	U	µg/kg dry	7.21	2.06	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.21	U	µg/kg dry	7.21	1.31	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.21	U	µg/kg dry	7.21	1.62	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.4	U	µg/kg dry	14.4	4.62	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.21	U	µg/kg dry	7.21	5.90	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.21	U	µg/kg dry	7.21	2.26	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.4	U	µg/kg dry	14.4	4.00	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.21	U	µg/kg dry	7.21	3.87	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.4	U	µg/kg dry	14.4	2.98	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.21	U	µg/kg dry	7.21	1.80	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.21	U	µg/kg dry	7.21	1.70	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.4	U	µg/kg dry	14.4	10.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.21	U	µg/kg dry	7.21	4.89	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.21	U	µg/kg dry	7.21	4.84	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.21	U	µg/kg dry	7.21	3.75	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.21	U	µg/kg dry	7.21	1.88	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.21	U	µg/kg dry	7.21	1.57	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.21	U	µg/kg dry	7.21	2.14	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.4	U	µg/kg dry	14.4	2.73	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.21	U	µg/kg dry	7.21	1.89	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.21	U	µg/kg dry	7.21	2.58	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.21	U	µg/kg dry	7.21	3.77	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.21	U	µg/kg dry	7.21	2.68	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.21	U	µg/kg dry	7.21	3.82	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.21	U	µg/kg dry	7.21	3.78	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.21	U	µg/kg dry	7.21	3.74	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.21	U	µg/kg dry	7.21	3.41	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.21	U	µg/kg dry	7.21	2.32	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.21	U	µg/kg dry	7.21	4.35	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.21	U	µg/kg dry	7.21	3.79	1	"	"	"	"	"	X

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Sample Identification

SB-03-1

SC46117-23

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:40

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 4.19 g

100-41-4	Ethylbenzene	< 7.21	U	µg/kg dry	7.21	1.04	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
87-68-3	Hexachlorobutadiene	< 7.21	U	µg/kg dry	7.21	3.62	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.4	U	µg/kg dry	14.4	8.85	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.21	U	µg/kg dry	7.21	1.42	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.21	U	µg/kg dry	7.21	1.55	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.21	U	µg/kg dry	7.21	2.66	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.4	U	µg/kg dry	14.4	3.71	1	"	"	"	"	"	X
75-09-2	Methylene chloride	16.4		µg/kg dry	14.4	2.86	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.21	U	µg/kg dry	7.21	4.29	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.21	U	µg/kg dry	7.21	1.17	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.21	U	µg/kg dry	7.21	1.45	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.21	U	µg/kg dry	7.21	6.13	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.21	U	µg/kg dry	7.21	6.10	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.21	U	µg/kg dry	7.21	2.47	1	"	"	"	"	"	X
108-88-3	Toluene	18.6		µg/kg dry	7.21	2.34	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.21	U	µg/kg dry	7.21	2.53	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.21	U	µg/kg dry	7.21	5.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.21	U	µg/kg dry	7.21	2.27	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 7.21	U	µg/kg dry	7.21	2.40	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.21	U	µg/kg dry	7.21	5.23	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.21	U	µg/kg dry	7.21	1.97	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.21	U	µg/kg dry	7.21	3.89	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.21	U	µg/kg dry	7.21	5.41	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.21	U	µg/kg dry	7.21	1.75	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.21	U	µg/kg dry	7.21	1.24	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.21	U	µg/kg dry	7.21	2.44	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.4	U	µg/kg dry	14.4	1.30	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.21	U	µg/kg dry	7.21	2.02	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.4	U	µg/kg dry	14.4	11.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 7.21	U	µg/kg dry	7.21	6.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.21	U	µg/kg dry	7.21	2.41	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 7.21	U	µg/kg dry	7.21	3.89	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 7.21	U	µg/kg dry	7.21	1.34	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 72.1	U	µg/kg dry	72.1	47.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 144	U	µg/kg dry	144	125	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 36.1	U	µg/kg dry	36.1	16.5	1	"	"	"	"	"	X
64-17-5	Ethanol	470	J	µg/kg dry	1440	269	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-03-1

SC46117-23

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:40

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Initial weight: 4.19 g</u>													
1868-53-7	Dibromofluoromethane	54	SGCMS VOC		70-130 %			SW846 8260C	01-May-18	01-May-18	GMA	1805846	
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
<u>Initial weight: 5.67 g</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 54.8	U, D	µg/kg dry	54.8	27.8	50	SW846 8260C	02-May-18	02-May-18	MP	1805954	X
67-64-1	Acetone	437	D	µg/kg dry	274	219	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 54.8	U, D	µg/kg dry	54.8	52.7	50	"	"	"	"	"	X
71-43-2	Benzene	< 54.8	U, D	µg/kg dry	54.8	14.5	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 54.8	U, D	µg/kg dry	54.8	14.6	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 54.8	U, D	µg/kg dry	54.8	27.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 54.8	U, D	µg/kg dry	54.8	36.6	50	"	"	"	"	"	X
75-25-2	Bromoform	< 54.8	U, D	µg/kg dry	54.8	52.3	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 110	U, D	µg/kg dry	110	49.5	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 110	U, D	µg/kg dry	110	98.0	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 54.8	U, D	µg/kg dry	54.8	15.7	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 54.8	U, D	µg/kg dry	54.8	9.97	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 54.8	U, D	µg/kg dry	54.8	12.3	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 110	U, D	µg/kg dry	110	35.1	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 54.8	U, D	µg/kg dry	54.8	44.8	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 54.8	U, D	µg/kg dry	54.8	17.2	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 110	U, D	µg/kg dry	110	30.4	50	"	"	"	"	"	X
67-66-3	Chloroform	< 54.8	U, D	µg/kg dry	54.8	29.4	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 110	U, D	µg/kg dry	110	22.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 54.8	U, D	µg/kg dry	54.8	13.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 54.8	U, D	µg/kg dry	54.8	12.9	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 110	U, D	µg/kg dry	110	79.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 54.8	U, D	µg/kg dry	54.8	37.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 54.8	U, D	µg/kg dry	54.8	36.8	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 54.8	U, D	µg/kg dry	54.8	28.5	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	14.2	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	11.9	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	16.2	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 110	U, D	µg/kg dry	110	20.8	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 54.8	U, D	µg/kg dry	54.8	14.4	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 54.8	U, D	µg/kg dry	54.8	19.6	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 54.8	U, D	µg/kg dry	54.8	28.7	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 54.8	U, D	µg/kg dry	54.8	20.3	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 54.8	U, D	µg/kg dry	54.8	29.0	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 54.8	U, D	µg/kg dry	54.8	28.7	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 54.8	U, D	µg/kg dry	54.8	28.4	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 54.8	U, D	µg/kg dry	54.8	25.9	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 54.8	U, D	µg/kg dry	54.8	17.6	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 54.8	U, D	µg/kg dry	54.8	33.0	50	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-03-1

SC46117-23

Client Project

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:40

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Initial weight: 5.67 g													
10061-02-6	trans-1,3-Dichloropropene	< 54.8	U, D	µg/kg dry	54.8	28.8	50	SW846 8260C	02-May-18	02-May-18	MP	1805954	X
100-41-4	Ethylbenzene	< 54.8	U, D	µg/kg dry	54.8	7.89	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 54.8	U, D	µg/kg dry	54.8	27.5	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 110	U, D	µg/kg dry	110	67.2	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 54.8	U, D	µg/kg dry	54.8	10.8	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	49.9	J, D	µg/kg dry	54.8	11.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 54.8	U, D	µg/kg dry	54.8	20.2	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 110	U, D	µg/kg dry	110	28.2	50	"	"	"	"	"	X
75-09-2	Methylene chloride	27.4	J, D	µg/kg dry	110	21.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 54.8	U, D	µg/kg dry	54.8	32.6	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 54.8	U, D	µg/kg dry	54.8	8.88	50	"	"	"	"	"	X
100-42-5	Styrene	< 54.8	U, D	µg/kg dry	54.8	11.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 54.8	U, D	µg/kg dry	54.8	46.6	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 54.8	U, D	µg/kg dry	54.8	46.4	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 54.8	U, D	µg/kg dry	54.8	18.7	50	"	"	"	"	"	X
108-88-3	Toluene	72.9	D	µg/kg dry	54.8	17.8	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	19.2	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	40.4	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 54.8	U, D	µg/kg dry	54.8	17.2	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 54.8	U, D	µg/kg dry	54.8	18.2	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 54.8	U, D	µg/kg dry	54.8	39.7	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 54.8	U, D	µg/kg dry	54.8	15.0	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 54.8	U, D	µg/kg dry	54.8	29.5	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 54.8	U, D	µg/kg dry	54.8	41.1	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	22.5	J, D	µg/kg dry	54.8	13.3	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 54.8	U, D	µg/kg dry	54.8	9.43	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 54.8	U, D	µg/kg dry	54.8	18.5	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	34.5	J, D	µg/kg dry	110	9.86	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 54.8	U, D	µg/kg dry	54.8	15.3	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 110	U, D	µg/kg dry	110	86.4	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 54.8	U, D	µg/kg dry	54.8	49.7	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 54.8	U, D	µg/kg dry	54.8	18.3	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 54.8	U, D	µg/kg dry	54.8	29.5	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 54.8	U, D	µg/kg dry	54.8	10.2	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 548	U, D	µg/kg dry	548	359	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1100	U, D	µg/kg dry	1100	952	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 274	U, D	µg/kg dry	274	125	50	"	"	"	"	"	X
64-17-5	Ethanol	< 11000	U, D	µg/kg dry	11000	2040	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	100			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	

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Sample Identification

SB-03-1

SC46117-23

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:40

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 5.67 g

17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			SW846 8260C	02-May-18	02-May-18	MP	1805954	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.8			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80

Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

64-17-5	Ethanol	< 5.6		mg/kg	5.6	5.6	1	SW8015D MOD	02-May-18	03-May-18	PH061	428588A	
									8	8 04:46			
78-83-1	Isobutyl alcohol	< 5.6	Q3	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-56-1	Methanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-23-8	Propanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	76			70-130 %			"	"	"	"	"	
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Analysis performed by Phoenix Environmental Labs, Inc. * - CT007

Percent Solid	89			%			1	SW846-%Solid	25-Apr-18	27-Apr-18	PH061	'[none]'	
									14:40	21:18			

Sample Identification

SB-03-4

SC46117-24

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:45

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.73	U	µg/kg dry	6.73	3.41	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	83.4		µg/kg dry	67.3	26.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.73	U	µg/kg dry	6.73	6.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.73	U	µg/kg dry	6.73	1.78	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.73	U	µg/kg dry	6.73	1.80	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.73	U	µg/kg dry	6.73	3.40	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.73	U	µg/kg dry	6.73	4.49	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.73	U	µg/kg dry	6.73	6.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.5	U	µg/kg dry	13.5	6.08	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.5	U	µg/kg dry	13.5	12.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.73	U	µg/kg dry	6.73	1.93	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.73	U	µg/kg dry	6.73	1.23	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.73	U	µg/kg dry	6.73	1.51	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.5	U	µg/kg dry	13.5	4.31	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.73	U	µg/kg dry	6.73	5.51	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.73	U	µg/kg dry	6.73	2.11	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.5	U	µg/kg dry	13.5	3.74	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.73	U	µg/kg dry	6.73	3.61	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.5	U	µg/kg dry	13.5	2.78	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.73	U	µg/kg dry	6.73	1.68	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.73	U	µg/kg dry	6.73	1.58	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.5	U	µg/kg dry	13.5	9.73	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.73	U	µg/kg dry	6.73	4.56	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.73	U	µg/kg dry	6.73	4.52	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.73	U	µg/kg dry	6.73	3.50	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.73	U	µg/kg dry	6.73	1.75	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.73	U	µg/kg dry	6.73	1.46	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.73	U	µg/kg dry	6.73	1.99	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.5	U	µg/kg dry	13.5	2.55	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.73	U	µg/kg dry	6.73	1.76	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.73	U	µg/kg dry	6.73	2.41	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.73	U	µg/kg dry	6.73	3.52	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.73	U	µg/kg dry	6.73	2.50	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.73	U	µg/kg dry	6.73	3.57	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.73	U	µg/kg dry	6.73	3.53	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.73	U	µg/kg dry	6.73	3.49	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.73	U	µg/kg dry	6.73	3.18	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.73	U	µg/kg dry	6.73	2.17	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.73	U	µg/kg dry	6.73	4.06	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.73	U	µg/kg dry	6.73	3.53	1	"	"	"	"	"	X

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Sample Identification

SB-03-4

SC46117-24

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:45

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6 g

100-41-4	Ethylbenzene	2.92	J	µg/kg dry	6.73	0.97	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
87-68-3	Hexachlorobutadiene	< 6.73	U	µg/kg dry	6.73	3.38	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.5	U	µg/kg dry	13.5	8.26	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.73	U	µg/kg dry	6.73	1.33	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.73	U	µg/kg dry	6.73	1.45	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.73	U	µg/kg dry	6.73	2.48	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.5	U	µg/kg dry	13.5	3.46	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.99	J	µg/kg dry	13.5	2.67	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.73	U	µg/kg dry	6.73	4.00	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.73	U	µg/kg dry	6.73	1.09	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.73	U	µg/kg dry	6.73	1.35	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.73	U	µg/kg dry	6.73	5.72	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.73	U	µg/kg dry	6.73	5.69	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.73	U	µg/kg dry	6.73	2.30	1	"	"	"	"	"	X
108-88-3	Toluene	5.01	J	µg/kg dry	6.73	2.18	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.73	U	µg/kg dry	6.73	2.36	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.73	U	µg/kg dry	6.73	4.96	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.73	U	µg/kg dry	6.73	2.11	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 6.73	U	µg/kg dry	6.73	2.23	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.73	U	µg/kg dry	6.73	4.88	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.73	U	µg/kg dry	6.73	1.84	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.73	U	µg/kg dry	6.73	3.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.73	U	µg/kg dry	6.73	5.05	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.73	U	µg/kg dry	6.73	1.64	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.73	U	µg/kg dry	6.73	1.16	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.73	U	µg/kg dry	6.73	2.28	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	5.88	J	µg/kg dry	13.5	1.21	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.73	U	µg/kg dry	6.73	1.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.5	U	µg/kg dry	13.5	10.6	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 6.73	U	µg/kg dry	6.73	6.10	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.73	U	µg/kg dry	6.73	2.25	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 6.73	U	µg/kg dry	6.73	3.63	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 6.73	U	µg/kg dry	6.73	1.25	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 67.3	U	µg/kg dry	67.3	44.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 135	U	µg/kg dry	135	117	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 33.7	U	µg/kg dry	33.7	15.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1350	U	µg/kg dry	1350	251	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	116			70-130 %		"	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-03-4

SC46117-24

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:45

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	78.1			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 6.0		mg/kg	6.0	6.0	1	SW8015D MOD	02-May-18	03-May-18 05:29	PH061	428588A	
78-83-1	Isobutyl alcohol	< 6.0	Q3	mg/kg	6.0	6.0	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 6.0	Q1	mg/kg	6.0	6.0	1	"	"	"	"	"	
67-56-1	Methanol	< 6.0	Q1	mg/kg	6.0	6.0	1	"	"	"	"	"	
71-36-3	n-Butanol	< 6.0	Q1	mg/kg	6.0	6.0	1	"	"	"	"	"	
71-23-8	Propanol	< 6.0	Q1	mg/kg	6.0	6.0	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 6.0	Q1	mg/kg	6.0	6.0	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	65	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	84			%			1	SW846-%Solid	25-Apr-18 14:45	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

SB-03-8

SC46117-25

Client Project #

0438688

Matrix

Soil

Collection Date/Time

25-Apr-18 14:55

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

O09

N/A

1

VOC Soil
Extraction21-May-1
8

VO

1806947

Volatile Organic Compounds by SW846 8260

O09

Prepared by method SW846 5035A Soil (low level)Initial weight: 6.81 g

67-64-1	Acetone	< 50.3	U	µg/kg dry	50.3	20.1	1	SW846 8260C	22-May-1 8	22-May-1 8	GMA	1806965	X
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Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	82			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	106			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	105			70-130 %			"	"	"	"	"	

General Chemistry Parameters

% Solids

86.4

%

1

SM2540 G (11)
Mod.21-May-1
821-May-1
8

VO

1806941

Sample Identification

SB-01-2
SC46117-26

Client Project #
0438688

Matrix
Soil

Collection Date/Time
26-Apr-18 09:00

Received
26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Prepared by method Volatiles

VOC Extraction	Lab Extracted - En Core	N/A	1	VOC Soil Extraction	27-Apr-18	VO	1805754
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Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.23 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.59	U	µg/kg dry	5.59	2.83	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	< 55.9	U	µg/kg dry	55.9	22.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.59	U	µg/kg dry	5.59	5.37	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.59	U	µg/kg dry	5.59	1.48	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.59	U	µg/kg dry	5.59	1.49	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.59	U	µg/kg dry	5.59	2.82	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.59	U	µg/kg dry	5.59	3.73	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.59	U	µg/kg dry	5.59	5.33	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.2	U	µg/kg dry	11.2	5.05	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 11.2	U	µg/kg dry	11.2	9.99	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.59	U	µg/kg dry	5.59	1.60	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.59	U	µg/kg dry	5.59	1.02	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.59	U	µg/kg dry	5.59	1.25	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 11.2	U	µg/kg dry	11.2	3.58	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.59	U	µg/kg dry	5.59	4.57	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.59	U	µg/kg dry	5.59	1.75	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 11.2	U	µg/kg dry	11.2	3.10	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.59	U	µg/kg dry	5.59	3.00	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.2	U	µg/kg dry	11.2	2.31	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.59	U	µg/kg dry	5.59	1.39	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.59	U	µg/kg dry	5.59	1.31	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.2	U	µg/kg dry	11.2	8.08	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.59	U	µg/kg dry	5.59	3.79	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.59	U	µg/kg dry	5.59	3.75	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.59	U	µg/kg dry	5.59	2.91	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.59	U	µg/kg dry	5.59	1.45	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.59	U	µg/kg dry	5.59	1.21	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.59	U	µg/kg dry	5.59	1.65	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 11.2	U	µg/kg dry	11.2	2.12	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.59	U	µg/kg dry	5.59	1.46	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.59	U	µg/kg dry	5.59	2.00	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.59	U	µg/kg dry	5.59	2.92	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.59	U	µg/kg dry	5.59	2.07	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.59	U	µg/kg dry	5.59	2.96	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.59	U	µg/kg dry	5.59	2.93	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.59	U	µg/kg dry	5.59	2.89	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.59	U	µg/kg dry	5.59	2.64	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.59	U	µg/kg dry	5.59	1.80	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.59	U	µg/kg dry	5.59	3.37	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.59	U	µg/kg dry	5.59	2.93	1	"	"	"	"	"	X

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Sample Identification

SB-01-2

SC46117-26

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 09:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 6.23 g													
100-41-4	Ethylbenzene	< 5.59	U	µg/kg dry	5.59	0.80	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
87-68-3	Hexachlorobutadiene	< 5.59	U	µg/kg dry	5.59	2.81	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 11.2	U	µg/kg dry	11.2	6.86	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.59	U	µg/kg dry	5.59	1.10	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.59	U	µg/kg dry	5.59	1.20	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.59	U	µg/kg dry	5.59	2.06	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 11.2	U	µg/kg dry	11.2	2.87	1	"	"	"	"	"	X
75-09-2	Methylene chloride	5.06	J	µg/kg dry	11.2	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.59	U	µg/kg dry	5.59	3.33	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.59	U	µg/kg dry	5.59	0.91	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.59	U	µg/kg dry	5.59	1.12	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.59	U	µg/kg dry	5.59	4.75	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.59	U	µg/kg dry	5.59	4.73	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.59	U	µg/kg dry	5.59	1.91	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.59	U	µg/kg dry	5.59	1.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.59	U	µg/kg dry	5.59	1.96	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.59	U	µg/kg dry	5.59	4.12	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.59	U	µg/kg dry	5.59	1.75	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.59	U	µg/kg dry	5.59	1.86	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.59	U	µg/kg dry	5.59	4.05	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.59	U	µg/kg dry	5.59	1.53	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.59	U	µg/kg dry	5.59	3.01	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.59	U	µg/kg dry	5.59	4.19	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.59	U	µg/kg dry	5.59	1.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.59	U	µg/kg dry	5.59	0.96	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.59	U	µg/kg dry	5.59	1.89	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 11.2	U	µg/kg dry	11.2	1.01	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.59	U	µg/kg dry	5.59	1.56	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 11.2	U	µg/kg dry	11.2	8.81	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.59	U	µg/kg dry	5.59	5.06	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.59	U	µg/kg dry	5.59	1.87	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.59	U	µg/kg dry	5.59	3.01	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.59	U	µg/kg dry	5.59	1.04	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 55.9	U	µg/kg dry	55.9	36.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 112	U	µg/kg dry	112	97.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 27.9	U	µg/kg dry	27.9	12.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1120	U	µg/kg dry	1120	208	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %			"	"	"	"	"	

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Sample Identification

SB-01-2

SC46117-26

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 09:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	85.1			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.9		mg/kg	5.9	5.9	1	SW8015D MOD	02-May-18	03-May-18 06:12	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.9	Q3	mg/kg	5.9	5.9	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
67-56-1	Methanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
71-23-8	Propanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	63	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	85			%			1	SW846-%Solid	26-Apr-18 09:00	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

SB-01-4

SC46117-27

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 09:15

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.53 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.44	U	µg/kg dry	5.44	2.76	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
67-64-1	Acetone	32.1	J	µg/kg dry	54.4	21.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.44	U	µg/kg dry	5.44	5.23	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.44	U	µg/kg dry	5.44	1.44	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.44	U	µg/kg dry	5.44	1.45	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.44	U	µg/kg dry	5.44	2.75	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.44	U	µg/kg dry	5.44	3.63	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.44	U	µg/kg dry	5.44	5.19	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.9	U	µg/kg dry	10.9	4.91	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.9	U	µg/kg dry	10.9	9.73	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.44	U	µg/kg dry	5.44	1.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.44	U	µg/kg dry	5.44	0.99	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.44	U	µg/kg dry	5.44	1.22	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.9	U	µg/kg dry	10.9	3.48	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.44	U	µg/kg dry	5.44	4.45	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.44	U	µg/kg dry	5.44	1.70	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.9	U	µg/kg dry	10.9	3.02	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.44	U	µg/kg dry	5.44	2.92	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.9	U	µg/kg dry	10.9	2.25	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.44	U	µg/kg dry	5.44	1.35	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.44	U	µg/kg dry	5.44	1.28	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.9	U	µg/kg dry	10.9	7.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.44	U	µg/kg dry	5.44	3.69	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.44	U	µg/kg dry	5.44	3.65	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.44	U	µg/kg dry	5.44	2.83	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.44	U	µg/kg dry	5.44	1.41	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.44	U	µg/kg dry	5.44	1.18	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.44	U	µg/kg dry	5.44	1.61	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.9	U	µg/kg dry	10.9	2.06	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.44	U	µg/kg dry	5.44	1.43	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.44	U	µg/kg dry	5.44	1.95	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.44	U	µg/kg dry	5.44	2.85	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.44	U	µg/kg dry	5.44	2.02	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.44	U	µg/kg dry	5.44	2.88	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.44	U	µg/kg dry	5.44	2.85	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.44	U	µg/kg dry	5.44	2.82	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.44	U	µg/kg dry	5.44	2.57	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.44	U	µg/kg dry	5.44	1.75	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.44	U	µg/kg dry	5.44	3.28	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.44	U	µg/kg dry	5.44	2.86	1	"	"	"	"	"	X

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Sample Identification

SB-01-4

SC46117-27

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 09:15

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6.53 g

100-41-4	Ethylbenzene	< 5.44	U	µg/kg dry	5.44	0.78	1	SW846 8260C	01-May-18	01-May-18	GMA	1805846	X
87-68-3	Hexachlorobutadiene	< 5.44	U	µg/kg dry	5.44	2.73	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.9	U	µg/kg dry	10.9	6.68	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.44	U	µg/kg dry	5.44	1.07	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.44	U	µg/kg dry	5.44	1.17	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.44	U	µg/kg dry	5.44	2.00	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.9	U	µg/kg dry	10.9	2.80	1	"	"	"	"	"	X
75-09-2	Methylene chloride	5.11	J	µg/kg dry	10.9	2.16	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.44	U	µg/kg dry	5.44	3.24	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.44	U	µg/kg dry	5.44	0.88	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.44	U	µg/kg dry	5.44	1.09	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.44	U	µg/kg dry	5.44	4.62	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.44	U	µg/kg dry	5.44	4.60	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.44	U	µg/kg dry	5.44	1.86	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.44	U	µg/kg dry	5.44	1.76	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.44	U	µg/kg dry	5.44	1.91	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.44	U	µg/kg dry	5.44	4.01	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.44	U	µg/kg dry	5.44	1.71	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.44	U	µg/kg dry	5.44	1.81	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.44	U	µg/kg dry	5.44	3.94	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.44	U	µg/kg dry	5.44	1.49	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.44	U	µg/kg dry	5.44	2.93	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.44	U	µg/kg dry	5.44	4.08	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.44	U	µg/kg dry	5.44	1.32	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.44	U	µg/kg dry	5.44	0.94	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.44	U	µg/kg dry	5.44	1.84	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.9	U	µg/kg dry	10.9	0.98	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.44	U	µg/kg dry	5.44	1.52	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.9	U	µg/kg dry	10.9	8.57	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.44	U	µg/kg dry	5.44	4.93	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.44	U	µg/kg dry	5.44	1.82	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.44	U	µg/kg dry	5.44	2.93	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.44	U	µg/kg dry	5.44	1.01	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 54.4	U	µg/kg dry	54.4	35.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 109	U	µg/kg dry	109	94.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 27.2	U	µg/kg dry	27.2	12.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1090	U	µg/kg dry	1090	203	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	101		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	119		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SB-01-4

SC46117-27

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 09:15

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	84.6			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	6.1		mg/kg	5.8	5.8	1	SW8015D MOD	02-May-18	03-May-18 08:21	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.8	Q3	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-56-1	Methanol	15	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-23-8	Propanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	53	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	86			%			1	SW846-%Solid	26-Apr-18 09:15	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

DUP042618

SC46117-29

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Prepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.92 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.93	U	µg/kg dry	5.93	3.01	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
67-64-1	Acetone	< 59.3	U	µg/kg dry	59.3	23.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.93	U	µg/kg dry	5.93	5.70	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.93	U	µg/kg dry	5.93	1.57	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.93	U	µg/kg dry	5.93	1.58	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.93	U	µg/kg dry	5.93	2.99	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.93	U	µg/kg dry	5.93	3.95	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.93	U	µg/kg dry	5.93	5.65	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.9	U	µg/kg dry	11.9	5.35	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 11.9	U	µg/kg dry	11.9	10.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.93	U	µg/kg dry	5.93	1.70	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.93	U	µg/kg dry	5.93	1.08	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.93	U	µg/kg dry	5.93	1.33	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 11.9	U	µg/kg dry	11.9	3.79	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.93	U	µg/kg dry	5.93	4.85	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.93	U	µg/kg dry	5.93	1.86	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 11.9	U	µg/kg dry	11.9	3.29	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.93	U	µg/kg dry	5.93	3.18	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.9	U	µg/kg dry	11.9	2.45	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.93	U	µg/kg dry	5.93	1.48	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.93	U	µg/kg dry	5.93	1.39	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.9	U	µg/kg dry	11.9	8.57	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.93	U	µg/kg dry	5.93	4.02	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.93	U	µg/kg dry	5.93	3.98	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.93	U	µg/kg dry	5.93	3.08	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.93	U	µg/kg dry	5.93	1.54	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.93	U	µg/kg dry	5.93	1.29	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.93	U	µg/kg dry	5.93	1.75	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 11.9	U	µg/kg dry	11.9	2.25	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.93	U	µg/kg dry	5.93	1.55	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.93	U	µg/kg dry	5.93	2.12	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.93	U	µg/kg dry	5.93	3.10	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.93	U	µg/kg dry	5.93	2.20	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.93	U	µg/kg dry	5.93	3.14	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.93	U	µg/kg dry	5.93	3.11	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.93	U	µg/kg dry	5.93	3.07	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.93	U	µg/kg dry	5.93	2.80	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.93	U	µg/kg dry	5.93	1.91	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.93	U	µg/kg dry	5.93	3.57	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.93	U	µg/kg dry	5.93	3.11	1	"	"	"	"	"	X

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Sample Identification

DUP042618

SC46117-29

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 5.92 g													
100-41-4	Ethylbenzene	< 5.93	U	µg/kg dry	5.93	0.85	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
87-68-3	Hexachlorobutadiene	< 5.93	U	µg/kg dry	5.93	2.98	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 11.9	U	µg/kg dry	11.9	7.27	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.93	U	µg/kg dry	5.93	1.17	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.93	U	µg/kg dry	5.93	1.27	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.93	U	µg/kg dry	5.93	2.18	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 11.9	U	µg/kg dry	11.9	3.05	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.94	O01, J	µg/kg dry	11.9	2.35	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.93	U	µg/kg dry	5.93	3.53	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.93	U	µg/kg dry	5.93	0.96	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.93	U	µg/kg dry	5.93	1.19	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.93	U	µg/kg dry	5.93	5.04	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.93	U	µg/kg dry	5.93	5.01	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.93	U	µg/kg dry	5.93	2.03	1	"	"	"	"	"	X
108-88-3	Toluene	4.39	J	µg/kg dry	5.93	1.92	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.93	U	µg/kg dry	5.93	2.08	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.93	U	µg/kg dry	5.93	4.37	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.93	U	µg/kg dry	5.93	1.86	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.93	U	µg/kg dry	5.93	1.97	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.93	U	µg/kg dry	5.93	4.30	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.93	U	µg/kg dry	5.93	1.62	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.93	U	µg/kg dry	5.93	3.19	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.93	U	µg/kg dry	5.93	4.45	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.93	U	µg/kg dry	5.93	1.44	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.93	U	µg/kg dry	5.93	1.02	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.93	U	µg/kg dry	5.93	2.00	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 11.9	U	µg/kg dry	11.9	1.07	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.93	U	µg/kg dry	5.93	1.66	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 11.9	U	µg/kg dry	11.9	9.34	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.93	U	µg/kg dry	5.93	5.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.93	U	µg/kg dry	5.93	1.98	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.93	U	µg/kg dry	5.93	3.19	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.93	U	µg/kg dry	5.93	1.10	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 59.3	U	µg/kg dry	59.3	38.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 119	U	µg/kg dry	119	103	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 29.6	U	µg/kg dry	29.6	13.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1190	U	µg/kg dry	1190	221	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %			"	"	"	"	"	

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Sample Identification**DUP042618**

SC46117-29

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	84.4			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.9		mg/kg	5.9	5.9	1	SW8015D MOD	02-May-18	03-May-18 09:04	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.9	Q3	mg/kg	5.9	5.9	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
67-56-1	Methanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
71-23-8	Propanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.9	Q1	mg/kg	5.9	5.9	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	58	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	85			%			1	SW846-%Solid	26-Apr-18	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

DUP042618-2

SC46117-30

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.93 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.37	U	µg/kg dry	5.37	2.72	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
67-64-1	Acetone	< 53.7	U	µg/kg dry	53.7	21.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.37	U	µg/kg dry	5.37	5.16	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.37	U	µg/kg dry	5.37	1.42	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.37	U	µg/kg dry	5.37	1.43	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.37	U	µg/kg dry	5.37	2.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.37	U	µg/kg dry	5.37	3.58	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.37	U	µg/kg dry	5.37	5.12	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.7	U	µg/kg dry	10.7	4.85	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.7	U	µg/kg dry	10.7	9.60	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.37	U	µg/kg dry	5.37	1.53	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.37	U	µg/kg dry	5.37	0.98	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.37	U	µg/kg dry	5.37	1.20	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.7	U	µg/kg dry	10.7	3.43	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.37	U	µg/kg dry	5.37	4.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.37	U	µg/kg dry	5.37	1.68	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.7	U	µg/kg dry	10.7	2.98	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.37	U	µg/kg dry	5.37	2.88	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.7	U	µg/kg dry	10.7	2.22	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.37	U	µg/kg dry	5.37	1.34	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.37	U	µg/kg dry	5.37	1.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.7	U	µg/kg dry	10.7	7.75	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.37	U	µg/kg dry	5.37	3.64	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.37	U	µg/kg dry	5.37	3.60	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.37	U	µg/kg dry	5.37	2.79	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.40	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.16	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.59	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.7	U	µg/kg dry	10.7	2.03	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.37	U	µg/kg dry	5.37	1.41	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.37	U	µg/kg dry	5.37	1.92	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.37	U	µg/kg dry	5.37	2.81	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.37	U	µg/kg dry	5.37	1.99	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.37	U	µg/kg dry	5.37	2.84	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.81	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.78	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.53	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.37	U	µg/kg dry	5.37	1.73	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.37	U	µg/kg dry	5.37	3.24	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.37	U	µg/kg dry	5.37	2.82	1	"	"	"	"	"	X

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Sample Identification

DUP042618-2

SC46117-30

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 5.93 g													
100-41-4	Ethylbenzene	< 5.37	U	µg/kg dry	5.37	0.77	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
87-68-3	Hexachlorobutadiene	< 5.37	U	µg/kg dry	5.37	2.69	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.7	U	µg/kg dry	10.7	6.58	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.37	U	µg/kg dry	5.37	1.06	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.37	U	µg/kg dry	5.37	1.15	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.37	U	µg/kg dry	5.37	1.97	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.7	U	µg/kg dry	10.7	2.76	1	"	"	"	"	"	X
75-09-2	Methylene chloride	5.72	O01, J	µg/kg dry	10.7	2.13	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.37	U	µg/kg dry	5.37	3.19	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.37	U	µg/kg dry	5.37	0.87	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.37	U	µg/kg dry	5.37	1.08	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.37	U	µg/kg dry	5.37	4.56	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.37	U	µg/kg dry	5.37	4.54	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.37	U	µg/kg dry	5.37	1.84	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.37	U	µg/kg dry	5.37	1.74	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.88	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	3.96	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.69	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.37	U	µg/kg dry	5.37	1.78	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.37	U	µg/kg dry	5.37	3.89	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.37	U	µg/kg dry	5.37	1.47	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.37	U	µg/kg dry	5.37	2.89	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.37	U	µg/kg dry	5.37	4.02	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.37	U	µg/kg dry	5.37	1.30	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.37	U	µg/kg dry	5.37	0.92	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.37	U	µg/kg dry	5.37	1.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.7	U	µg/kg dry	10.7	0.97	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.37	U	µg/kg dry	5.37	1.50	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.7	U	µg/kg dry	10.7	8.46	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.37	U	µg/kg dry	5.37	4.86	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.37	U	µg/kg dry	5.37	1.79	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.37	U	µg/kg dry	5.37	2.89	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.37	U	µg/kg dry	5.37	1.00	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 53.7	U	µg/kg dry	53.7	35.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 107	U	µg/kg dry	107	93.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 26.8	U	µg/kg dry	26.8	12.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1070	U	µg/kg dry	1070	200	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111			70-130 %			"	"	"	"	"	

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Sample Identification

DUP042618-2

SC46117-30

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 00:00

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	88.9			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805749	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.7		mg/kg	5.7	5.7	1	SW8015D MOD	02-May-18	03-May-18 09:47	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.7	Q3	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-56-1	Methanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-23-8	Propanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	38	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	88			%			1	SW846-%Solid	26-Apr-18	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

SB-02-2

SC46117-34

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 10:55

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)Initial weight: 5.64 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.18	U	µg/kg dry	6.18	3.13	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
67-64-1	Acetone	< 61.8	U	µg/kg dry	61.8	24.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.18	U	µg/kg dry	6.18	5.94	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.18	U	µg/kg dry	6.18	1.64	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.18	U	µg/kg dry	6.18	1.65	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.18	U	µg/kg dry	6.18	3.12	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.18	U	µg/kg dry	6.18	4.12	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.18	U	µg/kg dry	6.18	5.89	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.4	U	µg/kg dry	12.4	5.58	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 12.4	U	µg/kg dry	12.4	11.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.18	U	µg/kg dry	6.18	1.77	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.18	U	µg/kg dry	6.18	1.12	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.18	U	µg/kg dry	6.18	1.38	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.4	U	µg/kg dry	12.4	3.95	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.18	U	µg/kg dry	6.18	5.05	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.18	U	µg/kg dry	6.18	1.93	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.4	U	µg/kg dry	12.4	3.43	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.18	U	µg/kg dry	6.18	3.32	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.4	U	µg/kg dry	12.4	2.55	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.18	U	µg/kg dry	6.18	1.54	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.18	U	µg/kg dry	6.18	1.45	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.4	U	µg/kg dry	12.4	8.93	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.18	U	µg/kg dry	6.18	4.19	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.18	U	µg/kg dry	6.18	4.14	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.18	U	µg/kg dry	6.18	3.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.18	U	µg/kg dry	6.18	1.61	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.18	U	µg/kg dry	6.18	1.34	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.18	U	µg/kg dry	6.18	1.83	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.4	U	µg/kg dry	12.4	2.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.18	U	µg/kg dry	6.18	1.62	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.18	U	µg/kg dry	6.18	2.21	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.18	U	µg/kg dry	6.18	3.23	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.18	U	µg/kg dry	6.18	2.29	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.18	U	µg/kg dry	6.18	3.27	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.18	U	µg/kg dry	6.18	3.24	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.18	U	µg/kg dry	6.18	3.20	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.18	U	µg/kg dry	6.18	2.92	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.18	U	µg/kg dry	6.18	1.99	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.18	U	µg/kg dry	6.18	3.72	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.18	U	µg/kg dry	6.18	3.24	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-02-2

SC46117-34

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 10:55

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.64 g

100-41-4	Ethylbenzene	< 6.18	U	µg/kg dry	6.18	0.89	1	SW846 8260C	01-May-18	01-May-18	GMA	1805848	X
87-68-3	Hexachlorobutadiene	< 6.18	U	µg/kg dry	6.18	3.10	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.4	U	µg/kg dry	12.4	7.58	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.18	U	µg/kg dry	6.18	1.22	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.18	U	µg/kg dry	6.18	1.33	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.18	U	µg/kg dry	6.18	2.27	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.4	U	µg/kg dry	12.4	3.17	1	"	"	"	"	"	X
75-09-2	Methylene chloride	5.53	O01, J	µg/kg dry	12.4	2.45	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.18	U	µg/kg dry	6.18	3.68	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.18	U	µg/kg dry	6.18	1.00	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.18	U	µg/kg dry	6.18	1.24	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.18	U	µg/kg dry	6.18	5.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.18	U	µg/kg dry	6.18	5.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.18	U	µg/kg dry	6.18	2.11	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.18	U	µg/kg dry	6.18	2.00	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.18	U	µg/kg dry	6.18	2.17	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.18	U	µg/kg dry	6.18	4.55	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.18	U	µg/kg dry	6.18	1.94	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.18	U	µg/kg dry	6.18	2.05	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.18	U	µg/kg dry	6.18	4.48	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.18	U	µg/kg dry	6.18	1.69	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.18	U	µg/kg dry	6.18	3.33	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.18	U	µg/kg dry	6.18	4.63	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.18	U	µg/kg dry	6.18	1.50	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.18	U	µg/kg dry	6.18	1.06	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.18	U	µg/kg dry	6.18	2.09	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.4	U	µg/kg dry	12.4	1.11	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.18	U	µg/kg dry	6.18	1.73	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.4	U	µg/kg dry	12.4	9.73	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.18	U	µg/kg dry	6.18	5.60	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.18	U	µg/kg dry	6.18	2.06	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.18	U	µg/kg dry	6.18	3.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.18	U	µg/kg dry	6.18	1.15	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 61.8	U	µg/kg dry	61.8	40.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 124	U	µg/kg dry	124	107	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 30.9	U	µg/kg dry	30.9	14.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1240	U	µg/kg dry	1240	230	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SB-02-2

SC46117-34

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 10:55

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	84.4			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805750	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	6.5		mg/kg	5.7	5.7	1	SW8015D MOD	02-May-18	03-May-18 10:30	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.7	Q3	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-56-1	Methanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-23-8	Propanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	11	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	88			%			1	SW846-%Solid	26-Apr-18 10:55	27-Apr-18 21:18	PH061	'[none]'	
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Sample Identification

SB-02-5

SC46117-35

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 11:05

Received

26-Apr-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Lab
Extracted -
En Core

N/A

1

VOC Soil
Extraction

27-Apr-18

VO

1805754

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.54 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.80	U	µg/kg dry	6.80	3.45	1	SW846 8260C	01-May-18	02-May-18	GMA	1805848	X
67-64-1	Acetone	< 68.0	U	µg/kg dry	68.0	27.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.80	U	µg/kg dry	6.80	6.53	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.80	U	µg/kg dry	6.80	1.80	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.80	U	µg/kg dry	6.80	1.81	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.80	U	µg/kg dry	6.80	3.43	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.80	U	µg/kg dry	6.80	4.53	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.80	U	µg/kg dry	6.80	6.48	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.6	U	µg/kg dry	13.6	6.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.6	U	µg/kg dry	13.6	12.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.94	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.24	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.52	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.6	U	µg/kg dry	13.6	4.35	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.80	U	µg/kg dry	6.80	5.56	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.80	U	µg/kg dry	6.80	2.13	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.6	U	µg/kg dry	13.6	3.77	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.80	U	µg/kg dry	6.80	3.65	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.6	U	µg/kg dry	13.6	2.81	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.80	U	µg/kg dry	6.80	1.69	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.80	U	µg/kg dry	6.80	1.60	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.6	U	µg/kg dry	13.6	9.82	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.80	U	µg/kg dry	6.80	4.61	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.80	U	µg/kg dry	6.80	4.56	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.80	U	µg/kg dry	6.80	3.53	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	1.77	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	1.47	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.01	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.6	U	µg/kg dry	13.6	2.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.80	U	µg/kg dry	6.80	1.78	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.80	U	µg/kg dry	6.80	2.43	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.80	U	µg/kg dry	6.80	3.55	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.80	U	µg/kg dry	6.80	2.52	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.80	U	µg/kg dry	6.80	3.60	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.56	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.52	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.21	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.80	U	µg/kg dry	6.80	2.19	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.80	U	µg/kg dry	6.80	4.10	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.80	U	µg/kg dry	6.80	3.57	1	"	"	"	"	"	X

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Sample Identification

SB-02-5

SC46117-35

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 11:05

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.54 g

100-41-4	Ethylbenzene	0.98	J	µg/kg dry	6.80	0.98	1	SW846 8260C	01-May-18	02-May-18	GMA	1805848	X
87-68-3	Hexachlorobutadiene	< 6.80	U	µg/kg dry	6.80	3.41	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.6	U	µg/kg dry	13.6	8.34	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.80	U	µg/kg dry	6.80	1.34	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.80	U	µg/kg dry	6.80	1.46	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.80	U	µg/kg dry	6.80	2.50	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.6	U	µg/kg dry	13.6	3.49	1	"	"	"	"	"	X
75-09-2	Methylene chloride	10.7	O01, J	µg/kg dry	13.6	2.70	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.80	U	µg/kg dry	6.80	4.04	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.80	U	µg/kg dry	6.80	1.10	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.80	U	µg/kg dry	6.80	1.37	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.80	U	µg/kg dry	6.80	5.78	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.80	U	µg/kg dry	6.80	5.75	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.80	U	µg/kg dry	6.80	2.32	1	"	"	"	"	"	X
108-88-3	Toluene	32.9		µg/kg dry	6.80	2.20	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.39	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	5.01	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.13	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 6.80	U	µg/kg dry	6.80	2.26	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.80	U	µg/kg dry	6.80	4.93	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.80	U	µg/kg dry	6.80	1.86	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.80	U	µg/kg dry	6.80	3.66	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.80	U	µg/kg dry	6.80	5.10	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.80	U	µg/kg dry	6.80	1.65	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.80	U	µg/kg dry	6.80	1.17	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.80	U	µg/kg dry	6.80	2.30	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	6.21	J	µg/kg dry	13.6	1.22	1	"	"	"	"	"	X
95-47-6	o-Xylene	2.35	J	µg/kg dry	6.80	1.90	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.6	U	µg/kg dry	13.6	10.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 6.80	U	µg/kg dry	6.80	6.16	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.80	U	µg/kg dry	6.80	2.27	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 6.80	U	µg/kg dry	6.80	3.66	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 6.80	U	µg/kg dry	6.80	1.26	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 68.0	U	µg/kg dry	68.0	44.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 136	U	µg/kg dry	136	118	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 34.0	U	µg/kg dry	34.0	15.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1360	U	µg/kg dry	1360	254	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	115			70-130 %		"	"	"	"	"	"	

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Sample Identification

SB-02-5

SC46117-35

Client Project #

0438688

Matrix

Soil

Collection Date/Time

26-Apr-18 11:05

Received

26-Apr-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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General Chemistry Parameters

% Solids	80.6			%			1	SM2540 G (11) Mod.	27-Apr-18	27-Apr-18	VO	1805750	
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 428588-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.8		mg/kg	5.8	5.8	1	SW8015D MOD	02-May-18	03-May-18 11:14	PH061	428588A	
78-83-1	Isobutyl alcohol	< 5.8	Q3	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-56-1	Methanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-23-8	Propanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	31	Q2, Q4		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

Percent Solid	86			%			1	SW846-%Solid	26-Apr-18 11:05	27-Apr-18 21:18	PH061	'[none]'	
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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805846 - SW846 5035A Soil (low level)										
<u>Blank (1805846-BLK1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805846 - SW846 5035A Soil (low level)										
Blank (1805846-BLK1)					<u>Prepared & Analyzed: 01-May-18</u>					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	47.0		µg/kg		50.0		94	70-130		
Surrogate: Toluene-d8	50.6		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.9		µg/kg		50.0		130	70-130		
Surrogate: Dibromofluoromethane	58.2		µg/kg		50.0		116	70-130		
LCS (1805846-BS1)					<u>Prepared & Analyzed: 01-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.5		µg/kg		20.0		102	70-130		
Acetone	29.7		µg/kg		20.0		148	70-130		
Acrylonitrile	18.7		µg/kg		20.0		93	70-130		
Benzene	18.2		µg/kg		20.0		91	70-130		
Bromobenzene	24.4		µg/kg		20.0		122	70-130		
Bromochloromethane	21.2		µg/kg		20.0		106	70-130		
Bromodichloromethane	20.1		µg/kg		20.0		101	70-130		
Bromoform	25.2		µg/kg		20.0		126	70-130		
Bromomethane	23.8		µg/kg		20.0		119	70-130		
2-Butanone (MEK)	18.5		µg/kg		20.0		92	70-130		
n-Butylbenzene	21.6		µg/kg		20.0		108	70-130		
sec-Butylbenzene	23.5		µg/kg		20.0		118	70-130		
tert-Butylbenzene	22.8		µg/kg		20.0		114	70-130		
Carbon disulfide	19.7		µg/kg		20.0		98	70-130		
Carbon tetrachloride	21.8		µg/kg		20.0		109	70-130		
Chlorobenzene	21.2		µg/kg		20.0		106	70-130		
Chloroethane	23.1		µg/kg		20.0		116	70-130		
Chloroform	18.9		µg/kg		20.0		95	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805846 - SW846 5035A Soil (low level)										
LCS (1805846-BS1)					Prepared & Analyzed: 01-May-18					
Chloromethane	18.7		µg/kg		20.0		94	70-130		
2-Chlorotoluene	23.1		µg/kg		20.0		116	70-130		
4-Chlorotoluene	23.3		µg/kg		20.0		117	70-130		
1,2-Dibromo-3-chloropropane	22.0		µg/kg		20.0		110	70-130		
Dibromochloromethane	21.5		µg/kg		20.0		108	70-130		
1,2-Dibromoethane (EDB)	21.4		µg/kg		20.0		107	70-130		
Dibromomethane	20.4		µg/kg		20.0		102	70-130		
1,2-Dichlorobenzene	21.6		µg/kg		20.0		108	70-130		
1,3-Dichlorobenzene	25.6		µg/kg		20.0		128	70-130		
1,4-Dichlorobenzene	21.3		µg/kg		20.0		107	70-130		
Dichlorodifluoromethane (Freon12)	19.6		µg/kg		20.0		98	70-130		
1,1-Dichloroethane	17.6		µg/kg		20.0		88	70-130		
1,2-Dichloroethane	20.6		µg/kg		20.0		103	70-130		
1,1-Dichloroethene	20.4		µg/kg		20.0		102	70-130		
cis-1,2-Dichloroethene	19.4		µg/kg		20.0		97	70-130		
trans-1,2-Dichloroethene	19.2		µg/kg		20.0		96	70-130		
1,2-Dichloropropane	16.2		µg/kg		20.0		81	70-130		
1,3-Dichloropropane	19.4		µg/kg		20.0		97	70-130		
2,2-Dichloropropane	23.3		µg/kg		20.0		116	70-130		
1,1-Dichloropropene	18.9		µg/kg		20.0		95	70-130		
cis-1,3-Dichloropropene	19.5		µg/kg		20.0		97	70-130		
trans-1,3-Dichloropropene	19.9		µg/kg		20.0		100	70-130		
Ethylbenzene	21.5		µg/kg		20.0		108	70-130		
Hexachlorobutadiene	26.7	QC2	µg/kg		20.0		133	70-130		
2-Hexanone (MBK)	17.4		µg/kg		20.0		87	70-130		
Isopropylbenzene	22.5		µg/kg		20.0		112	70-130		
4-Isopropyltoluene	22.5		µg/kg		20.0		112	70-130		
Methyl tert-butyl ether	21.0		µg/kg		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	17.0		µg/kg		20.0		85	70-130		
Methylene chloride	20.0		µg/kg		20.0		100	70-130		
Naphthalene	21.3		µg/kg		20.0		107	70-130		
n-Propylbenzene	22.3		µg/kg		20.0		112	70-130		
Styrene	20.4		µg/kg		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	22.7		µg/kg		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	22.0		µg/kg		20.0		110	70-130		
Tetrachloroethene	23.2		µg/kg		20.0		116	70-130		
Toluene	19.2		µg/kg		20.0		96	70-130		
1,2,3-Trichlorobenzene	25.2		µg/kg		20.0		126	70-130		
1,2,4-Trichlorobenzene	25.2		µg/kg		20.0		126	70-130		
1,3,5-Trichlorobenzene	27.0	QC2	µg/kg		20.0		135	70-130		
1,1,1-Trichloroethane	21.4		µg/kg		20.0		107	70-130		
1,1,2-Trichloroethane	19.6		µg/kg		20.0		98	70-130		
Trichloroethene	19.8		µg/kg		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	29.4	QC2	µg/kg		20.0		147	70-130		
1,2,3-Trichloropropane	23.6		µg/kg		20.0		118	70-130		
1,2,4-Trimethylbenzene	24.1		µg/kg		20.0		121	70-130		
1,3,5-Trimethylbenzene	23.4		µg/kg		20.0		117	70-130		
Vinyl chloride	21.5		µg/kg		20.0		108	70-130		
m,p-Xylene	22.8		µg/kg		20.0		114	70-130		
o-Xylene	23.2		µg/kg		20.0		116	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805846 - SW846 5035A Soil (low level)										
<u>LCS (1805846-BS1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
Tetrahydrofuran	17.8		µg/kg		20.0		89	70-130		
Ethyl ether	27.8	QM9	µg/kg		20.0		139	70-130		
Tert-amyl methyl ether	18.0		µg/kg		20.0		90	70-130		
Ethyl tert-butyl ether	18.2		µg/kg		20.0		91	70-130		
Di-isopropyl ether	15.3		µg/kg		20.0		77	70-130		
Tert-Butanol / butyl alcohol	292	QM9	µg/kg		200		146	70-130		
1,4-Dioxane	225		µg/kg		200		112	70-130		
trans-1,4-Dichloro-2-butene	23.3		µg/kg		20.0		116	70-130		
Ethanol	507		µg/kg		400		127	70-130		
Surrogate: 4-Bromofluorobenzene	53.8		µg/kg		50.0		108	70-130		
Surrogate: Toluene-d8	49.0		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	55.6		µg/kg		50.0		111	70-130		
Surrogate: Dibromofluoromethane	53.2		µg/kg		50.0		106	70-130		
<u>LCS Dup (1805846-BSD1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.3		µg/kg		20.0		107	70-130	4	30
Acetone	26.6		µg/kg		20.0		133	70-130	11	30
Acrylonitrile	14.5		µg/kg		20.0		72	70-130	25	30
Benzene	18.3		µg/kg		20.0		91	70-130	0.4	30
Bromobenzene	23.4		µg/kg		20.0		117	70-130	4	30
Bromochloromethane	19.8		µg/kg		20.0		99	70-130	7	30
Bromodichloromethane	19.9		µg/kg		20.0		99	70-130	1	30
Bromoform	21.0		µg/kg		20.0		105	70-130	19	30
Bromomethane	25.2		µg/kg		20.0		126	70-130	6	30
2-Butanone (MEK)	17.1		µg/kg		20.0		85	70-130	8	30
n-Butylbenzene	22.6		µg/kg		20.0		113	70-130	4	30
sec-Butylbenzene	23.9		µg/kg		20.0		119	70-130	1	30
tert-Butylbenzene	23.5		µg/kg		20.0		118	70-130	3	30
Carbon disulfide	19.9		µg/kg		20.0		99	70-130	1	30
Carbon tetrachloride	22.9		µg/kg		20.0		114	70-130	5	30
Chlorobenzene	21.5		µg/kg		20.0		108	70-130	1	30
Chloroethane	24.7		µg/kg		20.0		124	70-130	7	30
Chloroform	18.8		µg/kg		20.0		94	70-130	0.7	30
Chloromethane	18.6		µg/kg		20.0		93	70-130	0.8	30
2-Chlorotoluene	23.3		µg/kg		20.0		117	70-130	0.9	30
4-Chlorotoluene	23.7		µg/kg		20.0		118	70-130	1	30
1,2-Dibromo-3-chloropropane	17.2		µg/kg		20.0		86	70-130	24	30
Dibromochloromethane	19.4		µg/kg		20.0		97	70-130	11	30
1,2-Dibromoethane (EDB)	19.2		µg/kg		20.0		96	70-130	11	30
Dibromomethane	18.6		µg/kg		20.0		93	70-130	9	30
1,2-Dichlorobenzene	21.4		µg/kg		20.0		107	70-130	0.9	30
1,3-Dichlorobenzene	25.3		µg/kg		20.0		127	70-130	1	30
1,4-Dichlorobenzene	21.6		µg/kg		20.0		108	70-130	1	30
Dichlorodifluoromethane (Freon12)	21.4		µg/kg		20.0		107	70-130	9	30
1,1-Dichloroethane	17.8		µg/kg		20.0		89	70-130	1	30
1,2-Dichloroethane	19.3		µg/kg		20.0		96	70-130	7	30
1,1-Dichloroethene	21.1		µg/kg		20.0		105	70-130	3	30
cis-1,2-Dichloroethene	19.7		µg/kg		20.0		99	70-130	2	30
trans-1,2-Dichloroethene	19.7		µg/kg		20.0		98	70-130	2	30
1,2-Dichloropropane	16.4		µg/kg		20.0		82	70-130	1	30
1,3-Dichloropropane	17.4		µg/kg		20.0		87	70-130	11	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805846 - SW846 5035A Soil (low level)										
LCS Dup (1805846-BSD1)					Prepared & Analyzed: 01-May-18					
2,2-Dichloropropane	22.8		µg/kg		20.0		114	70-130	2	30
1,1-Dichloropropene	19.6		µg/kg		20.0		98	70-130	4	30
cis-1,3-Dichloropropene	19.1		µg/kg		20.0		96	70-130	2	30
trans-1,3-Dichloropropene	18.5		µg/kg		20.0		93	70-130	7	30
Ethylbenzene	22.2		µg/kg		20.0		111	70-130	3	30
Hexachlorobutadiene	27.7	QC2	µg/kg		20.0		139	70-130	4	30
2-Hexanone (MBK)	17.2		µg/kg		20.0		86	70-130	0.9	30
Isopropylbenzene	22.9		µg/kg		20.0		115	70-130	2	30
4-Isopropyltoluene	23.6		µg/kg		20.0		118	70-130	5	30
Methyl tert-butyl ether	17.7		µg/kg		20.0		88	70-130	17	30
4-Methyl-2-pentanone (MIBK)	15.8		µg/kg		20.0		79	70-130	8	30
Methylene chloride	18.2		µg/kg		20.0		91	70-130	9	30
Naphthalene	17.7		µg/kg		20.0		88	70-130	19	30
n-Propylbenzene	22.9		µg/kg		20.0		115	70-130	3	30
Styrene	20.1		µg/kg		20.0		101	70-130	1	30
1,1,1,2-Tetrachloroethane	22.3		µg/kg		20.0		112	70-130	2	30
1,1,2,2-Tetrachloroethane	17.9		µg/kg		20.0		90	70-130	20	30
Tetrachloroethene	23.3		µg/kg		20.0		116	70-130	0.6	30
Toluene	19.0		µg/kg		20.0		95	70-130	0.8	30
1,2,3-Trichlorobenzene	22.7		µg/kg		20.0		114	70-130	11	30
1,2,4-Trichlorobenzene	23.8		µg/kg		20.0		119	70-130	6	30
1,3,5-Trichlorobenzene	27.3	QC2	µg/kg		20.0		137	70-130	1	30
1,1,1-Trichloroethane	21.8		µg/kg		20.0		109	70-130	2	30
1,1,2-Trichloroethane	17.3		µg/kg		20.0		86	70-130	13	30
Trichloroethene	20.2		µg/kg		20.0		101	70-130	2	30
Trichlorofluoromethane (Freon 11)	30.8	QC2	µg/kg		20.0		154	70-130	4	30
1,2,3-Trichloropropane	18.6		µg/kg		20.0		93	70-130	24	30
1,2,4-Trimethylbenzene	24.1		µg/kg		20.0		120	70-130	0.04	30
1,3,5-Trimethylbenzene	23.7		µg/kg		20.0		118	70-130	1	30
Vinyl chloride	24.9		µg/kg		20.0		124	70-130	14	30
m,p-Xylene	23.4		µg/kg		20.0		117	70-130	3	30
o-Xylene	23.6		µg/kg		20.0		118	70-130	2	30
Tetrahydrofuran	16.4		µg/kg		20.0		82	70-130	8	30
Ethyl ether	25.2		µg/kg		20.0		126	70-130	10	30
Tert-amyl methyl ether	15.6		µg/kg		20.0		78	70-130	14	30
Ethyl tert-butyl ether	16.8		µg/kg		20.0		84	70-130	8	30
Di-isopropyl ether	14.7		µg/kg		20.0		74	70-130	4	30
Tert-Butanol / butyl alcohol	195	QR5	µg/kg		200		98	70-130	40	30
1,4-Dioxane	171		µg/kg		200		85	70-130	27	30
trans-1,4-Dichloro-2-butene	19.3		µg/kg		20.0		97	70-130	19	30
Ethanol	529	QM9	µg/kg		400		132	70-130	4	30
Surrogate: 4-Bromofluorobenzene	52.8		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	48.7		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.5		µg/kg		50.0		103	70-130		
Surrogate: Dibromofluoromethane	52.9		µg/kg		50.0		106	70-130		
Batch 1805848 - SW846 5035A Soil (low level)										
Blank (1805848-BLK1)					Prepared & Analyzed: 01-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805848 - SW846 5035A Soil (low level)										
Blank (1805848-BLK1)	Prepared & Analyzed: 01-May-18									
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805848 - SW846 5035A Soil (low level)										
<u>Blank (1805848-BLK1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	46.5		µg/kg		50.0		93	70-130		
Surrogate: Toluene-d8	50.3		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.6		µg/kg		50.0		129	70-130		
Surrogate: Dibromofluoromethane	57.7		µg/kg		50.0		115	70-130		
<u>LCS (1805848-BS1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.2		µg/kg		20.0		116	70-130		
Acetone	29.9		µg/kg		20.0		149	70-130		
Acrylonitrile	14.9		µg/kg		20.0		75	70-130		
Benzene	18.5		µg/kg		20.0		92	70-130		
Bromobenzene	23.5		µg/kg		20.0		117	70-130		
Bromochloromethane	20.3		µg/kg		20.0		102	70-130		
Bromodichloromethane	20.2		µg/kg		20.0		101	70-130		
Bromoform	22.9		µg/kg		20.0		115	70-130		
Bromomethane	24.6		µg/kg		20.0		123	70-130		
2-Butanone (MEK)	19.4		µg/kg		20.0		97	70-130		
n-Butylbenzene	21.9		µg/kg		20.0		110	70-130		
sec-Butylbenzene	25.2		µg/kg		20.0		126	70-130		
tert-Butylbenzene	24.4		µg/kg		20.0		122	70-130		
Carbon disulfide	20.3		µg/kg		20.0		101	70-130		
Carbon tetrachloride	24.3		µg/kg		20.0		121	70-130		
Chlorobenzene	21.5		µg/kg		20.0		107	70-130		
Chloroethane	24.6		µg/kg		20.0		123	70-130		
Chloroform	19.0		µg/kg		20.0		95	70-130		
Chloromethane	18.5		µg/kg		20.0		93	70-130		
2-Chlorotoluene	23.6		µg/kg		20.0		118	70-130		
4-Chlorotoluene	23.5		µg/kg		20.0		118	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805848 - SW846 5035A Soil (low level)										
LCS (1805848-BS1)					Prepared & Analyzed: 01-May-18					
1,2-Dibromo-3-chloropropane	18.4		µg/kg		20.0		92	70-130		
Dibromochloromethane	19.7		µg/kg		20.0		98	70-130		
1,2-Dibromoethane (EDB)	20.0		µg/kg		20.0		100	70-130		
Dibromomethane	19.3		µg/kg		20.0		97	70-130		
1,2-Dichlorobenzene	21.3		µg/kg		20.0		107	70-130		
1,3-Dichlorobenzene	25.3		µg/kg		20.0		127	70-130		
1,4-Dichlorobenzene	21.2		µg/kg		20.0		106	70-130		
Dichlorodifluoromethane (Freon12)	20.5		µg/kg		20.0		103	70-130		
1,1-Dichloroethane	17.7		µg/kg		20.0		89	70-130		
1,2-Dichloroethane	19.7		µg/kg		20.0		98	70-130		
1,1-Dichloroethene	21.7		µg/kg		20.0		108	70-130		
cis-1,2-Dichloroethene	19.2		µg/kg		20.0		96	70-130		
trans-1,2-Dichloroethene	19.3		µg/kg		20.0		96	70-130		
1,2-Dichloropropane	16.0		µg/kg		20.0		80	70-130		
1,3-Dichloropropane	18.2		µg/kg		20.0		91	70-130		
2,2-Dichloropropane	22.3		µg/kg		20.0		111	70-130		
1,1-Dichloropropene	20.0		µg/kg		20.0		100	70-130		
cis-1,3-Dichloropropene	18.4		µg/kg		20.0		92	70-130		
trans-1,3-Dichloropropene	18.1		µg/kg		20.0		90	70-130		
Ethylbenzene	22.8		µg/kg		20.0		114	70-130		
Hexachlorobutadiene	28.5	QC2	µg/kg		20.0		143	70-130		
2-Hexanone (MBK)	16.4		µg/kg		20.0		82	70-130		
Isopropylbenzene	23.9		µg/kg		20.0		120	70-130		
4-Isopropyltoluene	23.4		µg/kg		20.0		117	70-130		
Methyl tert-butyl ether	18.1		µg/kg		20.0		91	70-130		
4-Methyl-2-pentanone (MIBK)	16.0		µg/kg		20.0		80	70-130		
Methylene chloride	17.7		µg/kg		20.0		89	70-130		
Naphthalene	17.5		µg/kg		20.0		88	70-130		
n-Propylbenzene	23.5		µg/kg		20.0		117	70-130		
Styrene	20.4		µg/kg		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	22.9		µg/kg		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	18.9		µg/kg		20.0		94	70-130		
Tetrachloroethene	24.9		µg/kg		20.0		125	70-130		
Toluene	19.3		µg/kg		20.0		96	70-130		
1,2,3-Trichlorobenzene	22.4		µg/kg		20.0		112	70-130		
1,2,4-Trichlorobenzene	22.4		µg/kg		20.0		112	70-130		
1,3,5-Trichlorobenzene	25.7		µg/kg		20.0		128	70-130		
1,1,1-Trichloroethane	23.0		µg/kg		20.0		115	70-130		
1,1,2-Trichloroethane	17.9		µg/kg		20.0		89	70-130		
Trichloroethene	20.4		µg/kg		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	31.8	QC2	µg/kg		20.0		159	70-130		
1,2,3-Trichloropropane	19.8		µg/kg		20.0		99	70-130		
1,2,4-Trimethylbenzene	24.2		µg/kg		20.0		121	70-130		
1,3,5-Trimethylbenzene	24.2		µg/kg		20.0		121	70-130		
Vinyl chloride	23.8		µg/kg		20.0		119	70-130		
m,p-Xylene	23.5		µg/kg		20.0		118	70-130		
o-Xylene	23.6		µg/kg		20.0		118	70-130		
Tetrahydrofuran	12.5	QM9	µg/kg		20.0		62	70-130		
Ethyl ether	25.1		µg/kg		20.0		126	70-130		
Tert-amyl methyl ether	16.1		µg/kg		20.0		80	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805848 - SW846 5035A Soil (low level)										
LCS (1805848-BS1)					Prepared & Analyzed: 01-May-18					
Ethyl tert-butyl ether	17.0		µg/kg		20.0		85	70-130		
Di-isopropyl ether	14.7		µg/kg		20.0		74	70-130		
Tert-Butanol / butyl alcohol	210		µg/kg		200		105	70-130		
1,4-Dioxane	178		µg/kg		200		89	70-130		
trans-1,4-Dichloro-2-butene	19.2		µg/kg		20.0		96	70-130		
Ethanol	522		µg/kg		400		130	70-130		
Surrogate: 4-Bromofluorobenzene	52.6		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	48.7		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.0		µg/kg		50.0		106	70-130		
Surrogate: Dibromofluoromethane	54.2		µg/kg		50.0		108	70-130		
LCS Dup (1805848-BSD1)					Prepared & Analyzed: 01-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.6		µg/kg		20.0		113	70-130	2	30
Acetone	29.0		µg/kg		20.0		145	70-130	3	30
Acrylonitrile	14.4		µg/kg		20.0		72	70-130	3	30
Benzene	18.2		µg/kg		20.0		91	70-130	1	30
Bromobenzene	23.3		µg/kg		20.0		116	70-130	0.9	30
Bromochloromethane	20.3		µg/kg		20.0		101	70-130	0.2	30
Bromodichloromethane	19.8		µg/kg		20.0		99	70-130	2	30
Bromoform	22.4		µg/kg		20.0		112	70-130	2	30
Bromomethane	24.2		µg/kg		20.0		121	70-130	2	30
2-Butanone (MEK)	18.8		µg/kg		20.0		94	70-130	3	30
n-Butylbenzene	20.2		µg/kg		20.0		101	70-130	8	30
sec-Butylbenzene	24.9		µg/kg		20.0		125	70-130	0.9	30
tert-Butylbenzene	24.6		µg/kg		20.0		123	70-130	0.7	30
Carbon disulfide	19.8		µg/kg		20.0		99	70-130	2	30
Carbon tetrachloride	24.1		µg/kg		20.0		120	70-130	0.9	30
Chlorobenzene	21.1		µg/kg		20.0		106	70-130	2	30
Chloroethane	24.8		µg/kg		20.0		124	70-130	0.7	30
Chloroform	18.8		µg/kg		20.0		94	70-130	1	30
Chloromethane	17.9		µg/kg		20.0		90	70-130	3	30
2-Chlorotoluene	23.6		µg/kg		20.0		118	70-130	0.3	30
4-Chlorotoluene	23.1		µg/kg		20.0		115	70-130	2	30
1,2-Dibromo-3-chloropropane	17.3		µg/kg		20.0		86	70-130	6	30
Dibromochloromethane	19.9		µg/kg		20.0		100	70-130	1	30
1,2-Dibromoethane (EDB)	19.7		µg/kg		20.0		98	70-130	1	30
Dibromomethane	18.7		µg/kg		20.0		94	70-130	3	30
1,2-Dichlorobenzene	20.9		µg/kg		20.0		105	70-130	2	30
1,3-Dichlorobenzene	25.0		µg/kg		20.0		125	70-130	1	30
1,4-Dichlorobenzene	20.5		µg/kg		20.0		103	70-130	3	30
Dichlorodifluoromethane (Freon12)	22.0		µg/kg		20.0		110	70-130	7	30
1,1-Dichloroethane	17.4		µg/kg		20.0		87	70-130	2	30
1,2-Dichloroethane	19.5		µg/kg		20.0		97	70-130	1	30
1,1-Dichloroethene	21.3		µg/kg		20.0		106	70-130	2	30
cis-1,2-Dichloroethene	19.4		µg/kg		20.0		97	70-130	1	30
trans-1,2-Dichloroethene	19.2		µg/kg		20.0		96	70-130	0.5	30
1,2-Dichloropropane	16.1		µg/kg		20.0		81	70-130	0.6	30
1,3-Dichloropropane	17.9		µg/kg		20.0		89	70-130	2	30
2,2-Dichloropropane	21.8		µg/kg		20.0		109	70-130	2	30
1,1-Dichloropropene	19.9		µg/kg		20.0		100	70-130	0.4	30
cis-1,3-Dichloropropene	18.3		µg/kg		20.0		91	70-130	0.7	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805848 - SW846 5035A Soil (low level)										
LCS Dup (1805848-BSD1)					Prepared & Analyzed: 01-May-18					
trans-1,3-Dichloropropene	18.7		µg/kg		20.0		93	70-130	3	30
Ethylbenzene	22.5		µg/kg		20.0		112	70-130	1	30
Hexachlorobutadiene	27.5	QC2	µg/kg		20.0		137	70-130	4	30
2-Hexanone (MBK)	16.4		µg/kg		20.0		82	70-130	0	30
Isopropylbenzene	23.7		µg/kg		20.0		119	70-130	0.7	30
4-Isopropyltoluene	22.4		µg/kg		20.0		112	70-130	5	30
Methyl tert-butyl ether	18.3		µg/kg		20.0		92	70-130	1	30
4-Methyl-2-pentanone (MIBK)	15.8		µg/kg		20.0		79	70-130	0.8	30
Methylene chloride	19.2		µg/kg		20.0		96	70-130	8	30
Naphthalene	16.4		µg/kg		20.0		82	70-130	7	30
n-Propylbenzene	23.3		µg/kg		20.0		117	70-130	0.7	30
Styrene	20.8		µg/kg		20.0		104	70-130	2	30
1,1,1,2-Tetrachloroethane	22.8		µg/kg		20.0		114	70-130	0.3	30
1,1,2,2-Tetrachloroethane	19.2		µg/kg		20.0		96	70-130	2	30
Tetrachloroethene	23.7		µg/kg		20.0		118	70-130	5	30
Toluene	18.9		µg/kg		20.0		95	70-130	2	30
1,2,3-Trichlorobenzene	20.4		µg/kg		20.0		102	70-130	9	30
1,2,4-Trichlorobenzene	20.5		µg/kg		20.0		102	70-130	9	30
1,3,5-Trichlorobenzene	23.3		µg/kg		20.0		117	70-130	10	30
1,1,1-Trichloroethane	22.6		µg/kg		20.0		113	70-130	1	30
1,1,2-Trichloroethane	17.1		µg/kg		20.0		85	70-130	5	30
Trichloroethene	20.2		µg/kg		20.0		101	70-130	1	30
Trichlorofluoromethane (Freon 11)	32.7	QC2	µg/kg		20.0		164	70-130	3	30
1,2,3-Trichloropropane	19.7		µg/kg		20.0		98	70-130	0.4	30
1,2,4-Trimethylbenzene	22.8		µg/kg		20.0		114	70-130	6	30
1,3,5-Trimethylbenzene	23.5		µg/kg		20.0		117	70-130	3	30
Vinyl chloride	24.7		µg/kg		20.0		124	70-130	4	30
m,p-Xylene	23.6		µg/kg		20.0		118	70-130	0.4	30
o-Xylene	23.4		µg/kg		20.0		117	70-130	0.7	30
Tetrahydrofuran	15.9		µg/kg		20.0		79	70-130	24	30
Ethyl ether	26.2	QM9	µg/kg		20.0		131	70-130	4	30
Tert-amyl methyl ether	16.3		µg/kg		20.0		81	70-130	1	30
Ethyl tert-butyl ether	17.2		µg/kg		20.0		86	70-130	1	30
Di-isopropyl ether	14.7		µg/kg		20.0		73	70-130	0.5	30
Tert-Butanol / butyl alcohol	218		µg/kg		200		109	70-130	4	30
1,4-Dioxane	174		µg/kg		200		87	70-130	2	30
trans-1,4-Dichloro-2-butene	19.6		µg/kg		20.0		98	70-130	2	30
Ethanol	538	QM9	µg/kg		400		134	70-130	3	30
Surrogate: 4-Bromofluorobenzene	53.5		µg/kg		50.0		107	70-130		
Surrogate: Toluene-d8	48.4		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.8		µg/kg		50.0		106	70-130		
Surrogate: Dibromofluoromethane	53.8		µg/kg		50.0		108	70-130		
Batch 1805860 - SW846 5030 Water MS										
Blank (1805860-BLK1)					Prepared & Analyzed: 01-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805860 - SW846 5030 Water MS										
Blank (1805860-BLK1)	Prepared & Analyzed: 01-May-18									
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 2.00	U	µg/l	2.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						
1,1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805860 - SW846 5030 Water MS										
<u>Blank (1805860-BLK1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		µg/l		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	50.8		µg/l		50.0		102	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	56.8		µg/l		50.0		114	70-130		
<i>Surrogate: Dibromofluoromethane</i>	52.0		µg/l		50.0		104	70-130		
<u>LCS (1805860-BS1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.6		µg/l		20.0		123	70-130		
Acetone	26.0		µg/l		20.0		130	70-130		
Acrylonitrile	25.1		µg/l		20.0		126	70-130		
Benzene	22.0		µg/l		20.0		110	70-130		
Bromobenzene	22.2		µg/l		20.0		111	70-130		
Bromochloromethane	22.7		µg/l		20.0		114	70-130		
Bromodichloromethane	22.0		µg/l		20.0		110	70-130		
Bromoform	20.6		µg/l		20.0		103	70-130		
Bromomethane	21.8		µg/l		20.0		109	70-130		
2-Butanone (MEK)	18.1		µg/l		20.0		91	70-130		
n-Butylbenzene	20.2		µg/l		20.0		101	70-130		
sec-Butylbenzene	20.4		µg/l		20.0		102	70-130		
tert-Butylbenzene	20.6		µg/l		20.0		103	70-130		
Carbon disulfide	22.6		µg/l		20.0		113	70-130		
Carbon tetrachloride	22.6		µg/l		20.0		113	70-130		
Chlorobenzene	21.0		µg/l		20.0		105	70-130		
Chloroethane	23.1		µg/l		20.0		115	70-130		
Chloroform	22.7		µg/l		20.0		114	70-130		
Chloromethane	23.0		µg/l		20.0		115	70-130		
2-Chlorotoluene	22.1		µg/l		20.0		110	70-130		
4-Chlorotoluene	22.8		µg/l		20.0		114	70-130		
1,2-Dibromo-3-chloropropane	20.2		µg/l		20.0		101	70-130		
Dibromochloromethane	21.2		µg/l		20.0		106	70-130		
1,2-Dibromoethane (EDB)	22.7		µg/l		20.0		114	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805860 - SW846 5030 Water MS										
<u>LCS (1805860-BS1)</u>	<u>Prepared & Analyzed: 01-May-18</u>									
Dibromomethane	22.0		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,3-Dichlorobenzene	21.0		µg/l		20.0		105	70-130		
1,4-Dichlorobenzene	20.7		µg/l		20.0		103	70-130		
Dichlorodifluoromethane (Freon12)	24.8		µg/l		20.0		124	70-130		
1,1-Dichloroethane	22.3		µg/l		20.0		112	70-130		
1,2-Dichloroethane	23.8		µg/l		20.0		119	70-130		
1,1-Dichloroethene	25.6		µg/l		20.0		128	70-130		
cis-1,2-Dichloroethene	22.0		µg/l		20.0		110	70-130		
trans-1,2-Dichloroethene	21.9		µg/l		20.0		110	70-130		
1,2-Dichloropropane	21.5		µg/l		20.0		108	70-130		
1,3-Dichloropropane	22.4		µg/l		20.0		112	70-130		
2,2-Dichloropropane	24.0		µg/l		20.0		120	70-130		
1,1-Dichloropropene	21.4		µg/l		20.0		107	70-130		
cis-1,3-Dichloropropene	21.3		µg/l		20.0		107	70-130		
trans-1,3-Dichloropropene	22.0		µg/l		20.0		110	70-130		
Ethylbenzene	22.8		µg/l		20.0		114	70-130		
Hexachlorobutadiene	22.7		µg/l		20.0		113	70-130		
2-Hexanone (MBK)	21.4		µg/l		20.0		107	70-130		
Isopropylbenzene	22.6		µg/l		20.0		113	70-130		
4-Isopropyltoluene	20.4		µg/l		20.0		102	70-130		
Methyl tert-butyl ether	22.8		µg/l		20.0		114	70-130		
4-Methyl-2-pentanone (MIBK)	22.4		µg/l		20.0		112	70-130		
Methylene chloride	25.0		µg/l		20.0		125	70-130		
Naphthalene	20.7		µg/l		20.0		104	70-130		
n-Propylbenzene	19.8		µg/l		20.0		99	70-130		
Styrene	19.7		µg/l		20.0		99	70-130		
1,1,1,2-Tetrachloroethane	22.3		µg/l		20.0		112	70-130		
1,1,2,2-Tetrachloroethane	20.1		µg/l		20.0		100	70-130		
Tetrachloroethene	22.7		µg/l		20.0		114	70-130		
Toluene	21.6		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	21.2		µg/l		20.0		106	70-130		
1,2,4-Trichlorobenzene	20.2		µg/l		20.0		101	70-130		
1,3,5-Trichlorobenzene	19.9		µg/l		20.0		100	70-130		
1,1,1-Trichloroethane	23.0		µg/l		20.0		115	70-130		
1,1,2-Trichloroethane	22.2		µg/l		20.0		111	70-130		
Trichloroethene	22.6		µg/l		20.0		113	70-130		
Trichlorofluoromethane (Freon 11)	24.8		µg/l		20.0		124	70-130		
1,2,3-Trichloropropane	22.0		µg/l		20.0		110	70-130		
1,2,4-Trimethylbenzene	20.7		µg/l		20.0		104	70-130		
1,3,5-Trimethylbenzene	20.8		µg/l		20.0		104	70-130		
Vinyl chloride	25.1		µg/l		20.0		126	70-130		
m,p-Xylene	20.1		µg/l		20.0		100	70-130		
o-Xylene	22.6		µg/l		20.0		113	70-130		
Tetrahydrofuran	19.3		µg/l		20.0		97	70-130		
Ethyl ether	25.4		µg/l		20.0		127	70-130		
Tert-amyl methyl ether	22.4		µg/l		20.0		112	70-130		
Ethyl tert-butyl ether	24.1		µg/l		20.0		120	70-130		
Di-isopropyl ether	21.8		µg/l		20.0		109	70-130		
Tert-Butanol / butyl alcohol	265	QM9	µg/l		200		133	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805860 - SW846 5030 Water MS										
LCS (1805860-BS1)					Prepared & Analyzed: 01-May-18					
1,4-Dioxane	182		µg/l		200		91	70-130		
trans-1,4-Dichloro-2-butene	20.6		µg/l		20.0		103	70-130		
Ethanol	431		µg/l		400		108	70-130		
Surrogate: 4-Bromofluorobenzene	53.0		µg/l		50.0		106	70-130		
Surrogate: Toluene-d8	50.8		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.0		µg/l		50.0		112	70-130		
Surrogate: Dibromofluoromethane	53.1		µg/l		50.0		106	70-130		
LCS Dup (1805860-BSD1)					Prepared & Analyzed: 01-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.7		µg/l		20.0		118	70-130	4	20
Acetone	23.6		µg/l		20.0		118	70-130	10	20
Acrylonitrile	25.4		µg/l		20.0		127	70-130	1	20
Benzene	22.6		µg/l		20.0		113	70-130	3	20
Bromobenzene	22.4		µg/l		20.0		112	70-130	1	20
Bromochloromethane	24.1		µg/l		20.0		120	70-130	6	20
Bromodichloromethane	22.5		µg/l		20.0		112	70-130	2	20
Bromoform	21.6		µg/l		20.0		108	70-130	4	20
Bromomethane	21.3		µg/l		20.0		106	70-130	2	20
2-Butanone (MEK)	19.6		µg/l		20.0		98	70-130	7	20
n-Butylbenzene	20.6		µg/l		20.0		103	70-130	2	20
sec-Butylbenzene	20.6		µg/l		20.0		103	70-130	1	20
tert-Butylbenzene	20.5		µg/l		20.0		103	70-130	0.5	20
Carbon disulfide	21.1		µg/l		20.0		105	70-130	7	20
Carbon tetrachloride	23.5		µg/l		20.0		117	70-130	4	20
Chlorobenzene	21.6		µg/l		20.0		108	70-130	3	20
Chloroethane	22.5		µg/l		20.0		113	70-130	2	20
Chloroform	22.7		µg/l		20.0		114	70-130	0.04	20
Chloromethane	24.5		µg/l		20.0		122	70-130	6	20
2-Chlorotoluene	22.1		µg/l		20.0		110	70-130	0	20
4-Chlorotoluene	23.0		µg/l		20.0		115	70-130	1	20
1,2-Dibromo-3-chloropropane	20.5		µg/l		20.0		103	70-130	1	20
Dibromochloromethane	22.5		µg/l		20.0		113	70-130	6	20
1,2-Dibromoethane (EDB)	23.3		µg/l		20.0		116	70-130	2	20
Dibromomethane	22.3		µg/l		20.0		112	70-130	1	20
1,2-Dichlorobenzene	21.1		µg/l		20.0		106	70-130	3	20
1,3-Dichlorobenzene	21.5		µg/l		20.0		108	70-130	2	20
1,4-Dichlorobenzene	20.8		µg/l		20.0		104	70-130	0.6	20
Dichlorodifluoromethane (Freon12)	25.0		µg/l		20.0		125	70-130	0.9	20
1,1-Dichloroethane	22.6		µg/l		20.0		113	70-130	1	20
1,2-Dichloroethane	24.5		µg/l		20.0		122	70-130	3	20
1,1-Dichloroethene	25.7		µg/l		20.0		128	70-130	0.4	20
cis-1,2-Dichloroethene	22.5		µg/l		20.0		113	70-130	2	20
trans-1,2-Dichloroethene	22.4		µg/l		20.0		112	70-130	2	20
1,2-Dichloropropane	22.6		µg/l		20.0		113	70-130	5	20
1,3-Dichloropropane	23.2		µg/l		20.0		116	70-130	4	20
2,2-Dichloropropane	24.4		µg/l		20.0		122	70-130	2	20
1,1-Dichloropropene	21.4		µg/l		20.0		107	70-130	0	20
cis-1,3-Dichloropropene	22.0		µg/l		20.0		110	70-130	3	20
trans-1,3-Dichloropropene	22.4		µg/l		20.0		112	70-130	2	20
Ethylbenzene	22.9		µg/l		20.0		115	70-130	0.4	20
Hexachlorobutadiene	22.6		µg/l		20.0		113	70-130	0.4	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805860 - SW846 5030 Water MS										
<u>LCS Dup (1805860-BSD1)</u>					<u>Prepared & Analyzed: 01-May-18</u>					
2-Hexanone (MBK)	22.5		µg/l		20.0		113	70-130	5	20
Isopropylbenzene	22.8		µg/l		20.0		114	70-130	1	20
4-Isopropyltoluene	20.5		µg/l		20.0		103	70-130	0.7	20
Methyl tert-butyl ether	24.2		µg/l		20.0		121	70-130	6	20
4-Methyl-2-pentanone (MIBK)	23.2		µg/l		20.0		116	70-130	3	20
Methylene chloride	25.4		µg/l		20.0		127	70-130	2	20
Naphthalene	20.9		µg/l		20.0		104	70-130	0.6	20
n-Propylbenzene	19.9		µg/l		20.0		100	70-130	0.4	20
Styrene	20.3		µg/l		20.0		101	70-130	3	20
1,1,1,2-Tetrachloroethane	23.2		µg/l		20.0		116	70-130	4	20
1,1,2,2-Tetrachloroethane	21.4		µg/l		20.0		107	70-130	7	20
Tetrachloroethene	23.5		µg/l		20.0		117	70-130	3	20
Toluene	21.9		µg/l		20.0		110	70-130	1	20
1,2,3-Trichlorobenzene	21.2		µg/l		20.0		106	70-130	0.3	20
1,2,4-Trichlorobenzene	20.4		µg/l		20.0		102	70-130	1	20
1,3,5-Trichlorobenzene	20.6		µg/l		20.0		103	70-130	4	20
1,1,1-Trichloroethane	23.1		µg/l		20.0		116	70-130	0.7	20
1,1,2-Trichloroethane	22.4		µg/l		20.0		112	70-130	1	20
Trichloroethene	23.3		µg/l		20.0		116	70-130	3	20
Trichlorofluoromethane (Freon 11)	25.2		µg/l		20.0		126	70-130	2	20
1,2,3-Trichloropropane	23.2		µg/l		20.0		116	70-130	5	20
1,2,4-Trimethylbenzene	21.2		µg/l		20.0		106	70-130	2	20
1,3,5-Trimethylbenzene	21.0		µg/l		20.0		105	70-130	0.8	20
Vinyl chloride	25.8		µg/l		20.0		129	70-130	3	20
m,p-Xylene	20.4		µg/l		20.0		102	70-130	2	20
o-Xylene	23.2		µg/l		20.0		116	70-130	3	20
Tetrahydrofuran	19.9		µg/l		20.0		99	70-130	3	20
Ethyl ether	25.8		µg/l		20.0		129	70-130	2	20
Tert-amyl methyl ether	22.7		µg/l		20.0		114	70-130	1	20
Ethyl tert-butyl ether	24.3		µg/l		20.0		121	70-130	0.8	20
Di-isopropyl ether	22.8		µg/l		20.0		114	70-130	4	20
Tert-Butanol / butyl alcohol	225		µg/l		200		113	70-130	16	20
1,4-Dioxane	191		µg/l		200		96	70-130	5	20
trans-1,4-Dichloro-2-butene	20.8		µg/l		20.0		104	70-130	1	20
Ethanol	389		µg/l		400		97	70-130	10	20
Surrogate: 4-Bromofluorobenzene	51.5		µg/l		50.0		103	70-130		
Surrogate: Toluene-d8	50.8		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.7		µg/l		50.0		109	70-130		
Surrogate: Dibromofluoromethane	52.5		µg/l		50.0		105	70-130		
Batch 1805934 - SW846 5035A Soil (low level)										
<u>Blank (1805934-BLK1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805934 - SW846 5035A Soil (low level)										
Blank (1805934-BLK1)					<u>Prepared & Analyzed: 02-May-18</u>					
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805934 - SW846 5035A Soil (low level)										
<u>Blank (1805934-BLK1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>96</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64.5</i>		<i>µg/kg</i>		<i>50.0</i>		<i>129</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>55.9</i>		<i>µg/kg</i>		<i>50.0</i>		<i>112</i>	<i>70-130</i>		
<u>LCS (1805934-BS1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.3		µg/kg		20.0		116	70-130		
Acetone	31.8		µg/kg		20.0		159	70-130		
Acrylonitrile	14.8		µg/kg		20.0		74	70-130		
Benzene	18.6		µg/kg		20.0		93	70-130		
Bromobenzene	23.6		µg/kg		20.0		118	70-130		
Bromochloromethane	20.4		µg/kg		20.0		102	70-130		
Bromodichloromethane	20.0		µg/kg		20.0		100	70-130		
Bromoform	23.0		µg/kg		20.0		115	70-130		
Bromomethane	23.5		µg/kg		20.0		117	70-130		
2-Butanone (MEK)	17.6		µg/kg		20.0		88	70-130		
n-Butylbenzene	22.1		µg/kg		20.0		110	70-130		
sec-Butylbenzene	25.4		µg/kg		20.0		127	70-130		
tert-Butylbenzene	24.9		µg/kg		20.0		125	70-130		
Carbon disulfide	20.8		µg/kg		20.0		104	70-130		
Carbon tetrachloride	25.7		µg/kg		20.0		129	70-130		
Chlorobenzene	21.5		µg/kg		20.0		107	70-130		
Chloroethane	23.7		µg/kg		20.0		118	70-130		
Chloroform	19.1		µg/kg		20.0		96	70-130		
Chloromethane	19.0		µg/kg		20.0		95	70-130		
2-Chlorotoluene	23.7		µg/kg		20.0		118	70-130		
4-Chlorotoluene	23.6		µg/kg		20.0		118	70-130		
1,2-Dibromo-3-chloropropane	18.7		µg/kg		20.0		94	70-130		
Dibromochloromethane	20.1		µg/kg		20.0		101	70-130		
1,2-Dibromoethane (EDB)	20.2		µg/kg		20.0		101	70-130		
Dibromomethane	18.6		µg/kg		20.0		93	70-130		
1,2-Dichlorobenzene	21.6		µg/kg		20.0		108	70-130		
1,3-Dichlorobenzene	25.5		µg/kg		20.0		128	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805934 - SW846 5035A Soil (low level)										
LCS (1805934-BS1)					Prepared & Analyzed: 02-May-18					
1,4-Dichlorobenzene	21.6		µg/kg		20.0		108	70-130		
Dichlorodifluoromethane (Freon12)	22.0		µg/kg		20.0		110	70-130		
1,1-Dichloroethane	18.1		µg/kg		20.0		90	70-130		
1,2-Dichloroethane	19.7		µg/kg		20.0		98	70-130		
1,1-Dichloroethene	22.2		µg/kg		20.0		111	70-130		
cis-1,2-Dichloroethene	19.5		µg/kg		20.0		97	70-130		
trans-1,2-Dichloroethene	20.1		µg/kg		20.0		101	70-130		
1,2-Dichloropropane	16.3		µg/kg		20.0		81	70-130		
1,3-Dichloropropane	17.9		µg/kg		20.0		90	70-130		
2,2-Dichloropropane	23.9		µg/kg		20.0		120	70-130		
1,1-Dichloropropene	20.7		µg/kg		20.0		103	70-130		
cis-1,3-Dichloropropene	19.3		µg/kg		20.0		96	70-130		
trans-1,3-Dichloropropene	18.2		µg/kg		20.0		91	70-130		
Ethylbenzene	22.8		µg/kg		20.0		114	70-130		
Hexachlorobutadiene	29.0	QC2	µg/kg		20.0		145	70-130		
2-Hexanone (MBK)	19.5		µg/kg		20.0		97	70-130		
Isopropylbenzene	24.0		µg/kg		20.0		120	70-130		
4-Isopropyltoluene	23.6		µg/kg		20.0		118	70-130		
Methyl tert-butyl ether	18.8		µg/kg		20.0		94	70-130		
4-Methyl-2-pentanone (MIBK)	16.9		µg/kg		20.0		85	70-130		
Methylene chloride	18.6		µg/kg		20.0		93	70-130		
Naphthalene	17.0		µg/kg		20.0		85	70-130		
n-Propylbenzene	23.9		µg/kg		20.0		119	70-130		
Styrene	20.8		µg/kg		20.0		104	70-130		
1,1,1,2-Tetrachloroethane	22.6		µg/kg		20.0		113	70-130		
1,1,2,2-Tetrachloroethane	19.0		µg/kg		20.0		95	70-130		
Tetrachloroethene	25.3		µg/kg		20.0		126	70-130		
Toluene	19.6		µg/kg		20.0		98	70-130		
1,2,3-Trichlorobenzene	22.1		µg/kg		20.0		111	70-130		
1,2,4-Trichlorobenzene	22.0		µg/kg		20.0		110	70-130		
1,3,5-Trichlorobenzene	25.7		µg/kg		20.0		128	70-130		
1,1,1-Trichloroethane	23.5		µg/kg		20.0		117	70-130		
1,1,2-Trichloroethane	16.8		µg/kg		20.0		84	70-130		
Trichloroethene	21.1		µg/kg		20.0		105	70-130		
Trichlorofluoromethane (Freon 11)	31.7	QC2	µg/kg		20.0		158	70-130		
1,2,3-Trichloropropane	20.1		µg/kg		20.0		100	70-130		
1,2,4-Trimethylbenzene	23.9		µg/kg		20.0		119	70-130		
1,3,5-Trimethylbenzene	24.2		µg/kg		20.0		121	70-130		
Vinyl chloride	21.8		µg/kg		20.0		109	70-130		
m,p-Xylene	23.9		µg/kg		20.0		119	70-130		
o-Xylene	23.9		µg/kg		20.0		119	70-130		
Tetrahydrofuran	16.4		µg/kg		20.0		82	70-130		
Ethyl ether	24.5		µg/kg		20.0		123	70-130		
Tert-amyl methyl ether	16.1		µg/kg		20.0		81	70-130		
Ethyl tert-butyl ether	17.4		µg/kg		20.0		87	70-130		
Di-isopropyl ether	14.7		µg/kg		20.0		73	70-130		
Tert-Butanol / butyl alcohol	226		µg/kg		200		113	70-130		
1,4-Dioxane	187		µg/kg		200		94	70-130		
trans-1,4-Dichloro-2-butene	20.3		µg/kg		20.0		101	70-130		
Ethanol	488		µg/kg		400		122	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805934 - SW846 5035A Soil (low level)										
LCS (1805934-BS1)					Prepared & Analyzed: 02-May-18					
Surrogate: 4-Bromofluorobenzene	53.2		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	48.9		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.7		µg/kg		50.0		105	70-130		
Surrogate: Dibromofluoromethane	53.4		µg/kg		50.0		107	70-130		
LCS Dup (1805934-BS1)					Prepared & Analyzed: 02-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.8		µg/kg		20.0		119	70-130	2	30
Acetone	29.4		µg/kg		20.0		147	70-130	8	30
Acrylonitrile	16.2		µg/kg		20.0		81	70-130	9	30
Benzene	18.9		µg/kg		20.0		95	70-130	2	30
Bromobenzene	23.8		µg/kg		20.0		119	70-130	0.7	30
Bromochloromethane	21.1		µg/kg		20.0		106	70-130	3	30
Bromodichloromethane	19.8		µg/kg		20.0		99	70-130	1	30
Bromoform	22.1		µg/kg		20.0		111	70-130	4	30
Bromomethane	23.0		µg/kg		20.0		115	70-130	2	30
2-Butanone (MEK)	19.3		µg/kg		20.0		96	70-130	9	30
n-Butylbenzene	23.1		µg/kg		20.0		116	70-130	5	30
sec-Butylbenzene	25.4		µg/kg		20.0		127	70-130	0.3	30
tert-Butylbenzene	25.1		µg/kg		20.0		126	70-130	0.8	30
Carbon disulfide	21.4		µg/kg		20.0		107	70-130	3	30
Carbon tetrachloride	26.3	QM9	µg/kg		20.0		132	70-130	2	30
Chlorobenzene	21.5		µg/kg		20.0		108	70-130	0.2	30
Chloroethane	24.2		µg/kg		20.0		121	70-130	2	30
Chloroform	19.7		µg/kg		20.0		99	70-130	3	30
Chloromethane	18.6		µg/kg		20.0		93	70-130	2	30
2-Chlorotoluene	23.8		µg/kg		20.0		119	70-130	0.4	30
4-Chlorotoluene	23.7		µg/kg		20.0		119	70-130	0.5	30
1,2-Dibromo-3-chloropropane	17.5		µg/kg		20.0		87	70-130	7	30
Dibromochloromethane	20.3		µg/kg		20.0		102	70-130	1	30
1,2-Dibromoethane (EDB)	20.4		µg/kg		20.0		102	70-130	1	30
Dibromomethane	19.0		µg/kg		20.0		95	70-130	2	30
1,2-Dichlorobenzene	21.8		µg/kg		20.0		109	70-130	0.9	30
1,3-Dichlorobenzene	25.6		µg/kg		20.0		128	70-130	0.4	30
1,4-Dichlorobenzene	21.7		µg/kg		20.0		109	70-130	0.7	30
Dichlorodifluoromethane (Freon12)	23.8		µg/kg		20.0		119	70-130	8	30
1,1-Dichloroethane	18.3		µg/kg		20.0		91	70-130	1	30
1,2-Dichloroethane	20.0		µg/kg		20.0		100	70-130	1	30
1,1-Dichloroethene	22.9		µg/kg		20.0		114	70-130	3	30
cis-1,2-Dichloroethene	20.3		µg/kg		20.0		102	70-130	4	30
trans-1,2-Dichloroethene	20.4		µg/kg		20.0		102	70-130	1	30
1,2-Dichloropropane	16.6		µg/kg		20.0		83	70-130	2	30
1,3-Dichloropropane	18.0		µg/kg		20.0		90	70-130	0.8	30
2,2-Dichloropropane	24.0		µg/kg		20.0		120	70-130	0.3	30
1,1-Dichloropropene	21.5		µg/kg		20.0		108	70-130	4	30
cis-1,3-Dichloropropene	19.4		µg/kg		20.0		97	70-130	0.7	30
trans-1,3-Dichloropropene	19.3		µg/kg		20.0		97	70-130	6	30
Ethylbenzene	22.9		µg/kg		20.0		115	70-130	0.5	30
Hexachlorobutadiene	29.6	QC2	µg/kg		20.0		148	70-130	2	30
2-Hexanone (MBK)	17.4		µg/kg		20.0		87	70-130	11	30
Isopropylbenzene	23.9		µg/kg		20.0		120	70-130	0.3	30
4-Isopropyltoluene	23.6		µg/kg		20.0		118	70-130	0.2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805934 - SW846 5035A Soil (low level)										
LCS Dup (1805934-BSD1)					Prepared & Analyzed: 02-May-18					
Methyl tert-butyl ether	18.5		µg/kg		20.0		92	70-130	2	30
4-Methyl-2-pentanone (MIBK)	16.0		µg/kg		20.0		80	70-130	5	30
Methylene chloride	20.5		µg/kg		20.0		102	70-130	10	30
Naphthalene	18.5		µg/kg		20.0		92	70-130	8	30
n-Propylbenzene	23.8		µg/kg		20.0		119	70-130	0.6	30
Styrene	20.9		µg/kg		20.0		105	70-130	0.5	30
1,1,1,2-Tetrachloroethane	22.8		µg/kg		20.0		114	70-130	0.7	30
1,1,2,2-Tetrachloroethane	18.9		µg/kg		20.0		94	70-130	0.8	30
Tetrachloroethene	25.9		µg/kg		20.0		129	70-130	2	30
Toluene	20.0		µg/kg		20.0		100	70-130	2	30
1,2,3-Trichlorobenzene	23.2		µg/kg		20.0		116	70-130	5	30
1,2,4-Trichlorobenzene	23.9		µg/kg		20.0		120	70-130	8	30
1,3,5-Trichlorobenzene	27.8	QM9	µg/kg		20.0		139	70-130	8	30
1,1,1-Trichloroethane	23.8		µg/kg		20.0		119	70-130	1	30
1,1,2-Trichloroethane	17.5		µg/kg		20.0		87	70-130	4	30
Trichloroethene	21.1		µg/kg		20.0		105	70-130	0.09	30
Trichlorofluoromethane (Freon 11)	31.8	QC2	µg/kg		20.0		159	70-130	0.3	30
1,2,3-Trichloropropane	19.8		µg/kg		20.0		99	70-130	2	30
1,2,4-Trimethylbenzene	24.9		µg/kg		20.0		124	70-130	4	30
1,3,5-Trimethylbenzene	25.1		µg/kg		20.0		125	70-130	4	30
Vinyl chloride	22.9		µg/kg		20.0		115	70-130	5	30
m,p-Xylene	23.9		µg/kg		20.0		120	70-130	0.2	30
o-Xylene	23.9		µg/kg		20.0		120	70-130	0.3	30
Tetrahydrofuran	16.2		µg/kg		20.0		81	70-130	1	30
Ethyl ether	26.0		µg/kg		20.0		130	70-130	6	30
Tert-amyl methyl ether	16.4		µg/kg		20.0		82	70-130	1	30
Ethyl tert-butyl ether	17.6		µg/kg		20.0		88	70-130	0.9	30
Di-isopropyl ether	15.2		µg/kg		20.0		76	70-130	3	30
Tert-Butanol / butyl alcohol	212		µg/kg		200		106	70-130	6	30
1,4-Dioxane	180		µg/kg		200		90	70-130	4	30
trans-1,4-Dichloro-2-butene	19.4		µg/kg		20.0		97	70-130	4	30
Ethanol	431		µg/kg		400		108	70-130	12	30
Surrogate: 4-Bromofluorobenzene	52.8		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	48.8		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.8		µg/kg		50.0		106	70-130		
Surrogate: Dibromofluoromethane	53.3		µg/kg		50.0		107	70-130		
Batch 1805954 - SW846 5035A Soil (high level)										
Blank (1805954-BLK1)					Prepared & Analyzed: 02-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805954 - SW846 5035A Soil (high level)										
<u>Blank (1805954-BLK1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1805954 - SW846 5035A Soil (high level)										
<u>Blank (1805954-BLK1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.7		µg/kg		50.0		99	70-130		
<i>Surrogate: Toluene-d8</i>	51.4		µg/kg		50.0		103	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57.2		µg/kg		50.0		114	70-130		
<i>Surrogate: Dibromofluoromethane</i>	55.3		µg/kg		50.0		111	70-130		
<u>LCS (1805954-BS1)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.8	D	µg/kg		20.0		119	70-130		
Acetone	24.6	D	µg/kg		20.0		123	70-130		
Acrylonitrile	24.3	D	µg/kg		20.0		121	70-130		
Benzene	21.4	D	µg/kg		20.0		107	70-130		
Bromobenzene	21.3	D	µg/kg		20.0		106	70-130		
Bromochloromethane	22.5	D	µg/kg		20.0		112	70-130		
Bromodichloromethane	22.3	D	µg/kg		20.0		112	70-130		
Bromoform	20.7	D	µg/kg		20.0		104	70-130		
Bromomethane	19.2	D	µg/kg		20.0		96	70-130		
2-Butanone (MEK)	21.4	D	µg/kg		20.0		107	70-130		
n-Butylbenzene	20.1	D	µg/kg		20.0		101	70-130		
sec-Butylbenzene	20.4	D	µg/kg		20.0		102	70-130		
tert-Butylbenzene	20.5	D	µg/kg		20.0		103	70-130		
Carbon disulfide	21.1	D	µg/kg		20.0		105	70-130		
Carbon tetrachloride	23.5	D	µg/kg		20.0		118	70-130		
Chlorobenzene	20.4	D	µg/kg		20.0		102	70-130		
Chloroethane	22.7	D	µg/kg		20.0		114	70-130		
Chloroform	22.0	D	µg/kg		20.0		110	70-130		
Chloromethane	23.4	D	µg/kg		20.0		117	70-130		
2-Chlorotoluene	21.4	D	µg/kg		20.0		107	70-130		
4-Chlorotoluene	21.8	D	µg/kg		20.0		109	70-130		
1,2-Dibromo-3-chloropropane	22.2	D	µg/kg		20.0		111	70-130		
Dibromochloromethane	21.7	D	µg/kg		20.0		109	70-130		
1,2-Dibromoethane (EDB)	23.0	D	µg/kg		20.0		115	70-130		
Dibromomethane	21.6	D	µg/kg		20.0		108	70-130		
1,2-Dichlorobenzene	20.4	D	µg/kg		20.0		102	70-130		
1,3-Dichlorobenzene	20.8	D	µg/kg		20.0		104	70-130		
1,4-Dichlorobenzene	20.1	D	µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	23.7	D	µg/kg		20.0		119	70-130		
1,1-Dichloroethane	21.6	D	µg/kg		20.0		108	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805954 - SW846 5035A Soil (high level)										
LCS (1805954-BS1)					Prepared & Analyzed: 02-May-18					
1,2-Dichloroethane	23.2	D	µg/kg		20.0		116	70-130		
1,1-Dichloroethene	23.8	D	µg/kg		20.0		119	70-130		
cis-1,2-Dichloroethene	21.4	D	µg/kg		20.0		107	70-130		
trans-1,2-Dichloroethene	20.5	D	µg/kg		20.0		102	70-130		
1,2-Dichloropropane	21.2	D	µg/kg		20.0		106	70-130		
1,3-Dichloropropane	22.8	D	µg/kg		20.0		114	70-130		
2,2-Dichloropropane	23.6	D	µg/kg		20.0		118	70-130		
1,1-Dichloropropene	20.8	D	µg/kg		20.0		104	70-130		
cis-1,3-Dichloropropene	20.8	D	µg/kg		20.0		104	70-130		
trans-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130		
Ethylbenzene	21.6	D	µg/kg		20.0		108	70-130		
Hexachlorobutadiene	22.3	D	µg/kg		20.0		112	70-130		
2-Hexanone (MBK)	23.6	D	µg/kg		20.0		118	70-130		
Isopropylbenzene	22.3	D	µg/kg		20.0		111	70-130		
4-Isopropyltoluene	20.3	D	µg/kg		20.0		102	70-130		
Methyl tert-butyl ether	22.9	D	µg/kg		20.0		115	70-130		
4-Methyl-2-pentanone (MIBK)	23.3	D	µg/kg		20.0		117	70-130		
Methylene chloride	23.6	D	µg/kg		20.0		118	70-130		
Naphthalene	20.5	D	µg/kg		20.0		102	70-130		
n-Propylbenzene	19.5	D	µg/kg		20.0		98	70-130		
Styrene	19.0	D	µg/kg		20.0		95	70-130		
1,1,1,2-Tetrachloroethane	21.9	D	µg/kg		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	21.4	D	µg/kg		20.0		107	70-130		
Tetrachloroethene	22.0	D	µg/kg		20.0		110	70-130		
Toluene	20.6	D	µg/kg		20.0		103	70-130		
1,2,3-Trichlorobenzene	20.2	D	µg/kg		20.0		101	70-130		
1,2,4-Trichlorobenzene	19.7	D	µg/kg		20.0		98	70-130		
1,3,5-Trichlorobenzene	19.1	D	µg/kg		20.0		96	70-130		
1,1,1-Trichloroethane	22.4	D	µg/kg		20.0		112	70-130		
1,1,2-Trichloroethane	21.4	D	µg/kg		20.0		107	70-130		
Trichloroethene	21.1	D	µg/kg		20.0		105	70-130		
Trichlorofluoromethane (Freon 11)	25.2	D	µg/kg		20.0		126	70-130		
1,2,3-Trichloropropane	23.0	D	µg/kg		20.0		115	70-130		
1,2,4-Trimethylbenzene	20.2	D	µg/kg		20.0		101	70-130		
1,3,5-Trimethylbenzene	20.2	D	µg/kg		20.0		101	70-130		
Vinyl chloride	25.9	D	µg/kg		20.0		130	70-130		
m,p-Xylene	19.3	D	µg/kg		20.0		96	70-130		
o-Xylene	22.0	D	µg/kg		20.0		110	70-130		
Tetrahydrofuran	19.4	D	µg/kg		20.0		97	70-130		
Ethyl ether	23.2	D	µg/kg		20.0		116	70-130		
Tert-amyl methyl ether	22.4	D	µg/kg		20.0		112	70-130		
Ethyl tert-butyl ether	23.2	D	µg/kg		20.0		116	70-130		
Di-isopropyl ether	21.6	D	µg/kg		20.0		108	70-130		
Tert-Butanol / butyl alcohol	233	D	µg/kg		200		117	70-130		
1,4-Dioxane	187	D	µg/kg		200		94	70-130		
trans-1,4-Dichloro-2-butene	20.9	D	µg/kg		20.0		104	70-130		
Ethanol	382	D	µg/kg		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	52.4		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	50.2		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	54.7		µg/kg		50.0		109	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805954 - SW846 5035A Soil (high level)										
LCS (1805954-BS1)					Prepared & Analyzed: 02-May-18					
Surrogate: Dibromofluoromethane	52.3		µg/kg		50.0		105	70-130		
LCS Dup (1805954-BSD1)					Prepared & Analyzed: 02-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	25.6	D	µg/kg		20.0		128	70-130	7	30
Acetone	24.8	D	µg/kg		20.0		124	70-130	0.7	30
Acrylonitrile	25.4	D	µg/kg		20.0		127	70-130	4	30
Benzene	22.8	D	µg/kg		20.0		114	70-130	6	30
Bromobenzene	21.7	D	µg/kg		20.0		108	70-130	2	30
Bromochloromethane	24.3	D	µg/kg		20.0		122	70-130	8	30
Bromodichloromethane	23.0	D	µg/kg		20.0		115	70-130	3	30
Bromoform	21.5	D	µg/kg		20.0		107	70-130	4	30
Bromomethane	20.9	D	µg/kg		20.0		105	70-130	9	30
2-Butanone (MEK)	21.8	D	µg/kg		20.0		109	70-130	2	30
n-Butylbenzene	20.3	D	µg/kg		20.0		102	70-130	0.8	30
sec-Butylbenzene	20.4	D	µg/kg		20.0		102	70-130	0.1	30
tert-Butylbenzene	20.1	D	µg/kg		20.0		101	70-130	2	30
Carbon disulfide	23.4	D	µg/kg		20.0		117	70-130	10	30
Carbon tetrachloride	24.0	D	µg/kg		20.0		120	70-130	2	30
Chlorobenzene	20.6	D	µg/kg		20.0		103	70-130	1	30
Chloroethane	23.4	D	µg/kg		20.0		117	70-130	3	30
Chloroform	23.0	D	µg/kg		20.0		115	70-130	5	30
Chloromethane	25.7	D	µg/kg		20.0		129	70-130	9	30
2-Chlorotoluene	21.8	D	µg/kg		20.0		109	70-130	2	30
4-Chlorotoluene	21.8	D	µg/kg		20.0		109	70-130	0.2	30
1,2-Dibromo-3-chloropropane	21.2	D	µg/kg		20.0		106	70-130	5	30
Dibromochloromethane	23.3	D	µg/kg		20.0		117	70-130	7	30
1,2-Dibromoethane (EDB)	24.1	D	µg/kg		20.0		120	70-130	5	30
Dibromomethane	22.7	D	µg/kg		20.0		113	70-130	5	30
1,2-Dichlorobenzene	20.4	D	µg/kg		20.0		102	70-130	0.2	30
1,3-Dichlorobenzene	20.6	D	µg/kg		20.0		103	70-130	0.8	30
1,4-Dichlorobenzene	20.1	D	µg/kg		20.0		100	70-130	0.2	30
Dichlorodifluoromethane (Freon12)	24.5	D	µg/kg		20.0		122	70-130	3	30
1,1-Dichloroethane	23.4	D	µg/kg		20.0		117	70-130	8	30
1,2-Dichloroethane	24.8	D	µg/kg		20.0		124	70-130	7	30
1,1-Dichloroethene	26.9	QM9, D	µg/kg		20.0		135	70-130	13	30
cis-1,2-Dichloroethene	23.0	D	µg/kg		20.0		115	70-130	7	30
trans-1,2-Dichloroethene	22.4	D	µg/kg		20.0		112	70-130	9	30
1,2-Dichloropropane	23.1	D	µg/kg		20.0		116	70-130	9	30
1,3-Dichloropropane	23.4	D	µg/kg		20.0		117	70-130	3	30
2,2-Dichloropropane	25.6	D	µg/kg		20.0		128	70-130	8	30
1,1-Dichloropropene	21.9	D	µg/kg		20.0		109	70-130	5	30
cis-1,3-Dichloropropene	22.2	D	µg/kg		20.0		111	70-130	6	30
trans-1,3-Dichloropropene	22.5	D	µg/kg		20.0		113	70-130	4	30
Ethylbenzene	22.1	D	µg/kg		20.0		111	70-130	2	30
Hexachlorobutadiene	22.3	D	µg/kg		20.0		111	70-130	0.3	30
2-Hexanone (MBK)	24.7	D	µg/kg		20.0		123	70-130	5	30
Isopropylbenzene	22.3	D	µg/kg		20.0		111	70-130	0.1	30
4-Isopropyltoluene	20.0	D	µg/kg		20.0		100	70-130	2	30
Methyl tert-butyl ether	24.4	D	µg/kg		20.0		122	70-130	6	30
4-Methyl-2-pentanone (MIBK)	23.3	D	µg/kg		20.0		116	70-130	0.3	30
Methylene chloride	25.6	D	µg/kg		20.0		128	70-130	8	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1805954 - SW846 5035A Soil (high level)										
LCS Dup (1805954-BSD1)					<u>Prepared & Analyzed: 02-May-18</u>					
Naphthalene	20.4	D	µg/kg		20.0		102	70-130	0.4	30
n-Propylbenzene	19.6	D	µg/kg		20.0		98	70-130	0.6	30
Styrene	19.3	D	µg/kg		20.0		96	70-130	2	30
1,1,1,2-Tetrachloroethane	22.4	D	µg/kg		20.0		112	70-130	2	30
1,1,2,2-Tetrachloroethane	21.4	D	µg/kg		20.0		107	70-130	0.05	30
Tetrachloroethene	23.0	D	µg/kg		20.0		115	70-130	4	30
Toluene	22.4	D	µg/kg		20.0		112	70-130	9	30
1,2,3-Trichlorobenzene	20.7	D	µg/kg		20.0		104	70-130	2	30
1,2,4-Trichlorobenzene	19.9	D	µg/kg		20.0		99	70-130	0.9	30
1,3,5-Trichlorobenzene	19.5	D	µg/kg		20.0		98	70-130	2	30
1,1,1-Trichloroethane	23.7	D	µg/kg		20.0		118	70-130	6	30
1,1,2-Trichloroethane	23.2	D	µg/kg		20.0		116	70-130	8	30
Trichloroethene	22.6	D	µg/kg		20.0		113	70-130	7	30
Trichlorofluoromethane (Freon 11)	25.4	D	µg/kg		20.0		127	70-130	0.6	30
1,2,3-Trichloropropane	23.7	D	µg/kg		20.0		119	70-130	3	30
1,2,4-Trimethylbenzene	20.3	D	µg/kg		20.0		102	70-130	0.8	30
1,3,5-Trimethylbenzene	20.0	D	µg/kg		20.0		100	70-130	0.6	30
Vinyl chloride	27.8	QM9, D	µg/kg		20.0		139	70-130	7	30
m,p-Xylene	19.7	D	µg/kg		20.0		99	70-130	2	30
o-Xylene	22.0	D	µg/kg		20.0		110	70-130	0.05	30
Tetrahydrofuran	21.9	D	µg/kg		20.0		110	70-130	12	30
Ethyl ether	25.4	D	µg/kg		20.0		127	70-130	9	30
Tert-amyl methyl ether	23.6	D	µg/kg		20.0		118	70-130	5	30
Ethyl tert-butyl ether	24.6	D	µg/kg		20.0		123	70-130	6	30
Di-isopropyl ether	23.0	D	µg/kg		20.0		115	70-130	6	30
Tert-Butanol / butyl alcohol	256	D	µg/kg		200		128	70-130	9	30
1,4-Dioxane	183	D	µg/kg		200		92	70-130	2	30
trans-1,4-Dichloro-2-butene	21.1	D	µg/kg		20.0		105	70-130	0.9	30
Ethanol	383	D	µg/kg		400		96	70-130	0.2	30
Surrogate: 4-Bromofluorobenzene	51.8		µg/kg		50.0		104	70-130		
Surrogate: Toluene-d8	51.6		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	56.0		µg/kg		50.0		112	70-130		
Surrogate: Dibromofluoromethane	53.6		µg/kg		50.0		107	70-130		
Batch 1806965 - SW846 5035A Soil (low level)										
Blank (1806965-BLK1)					<u>Prepared & Analyzed: 22-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1806965 - SW846 5035A Soil (low level)										
<u>Blank (1806965-BLK1)</u>	<u>Prepared & Analyzed: 22-May-18</u>									
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1806965 - SW846 5035A Soil (low level)										
<u>Blank (1806965-BLK1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>94</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>58.8</i>		<i>µg/kg</i>		<i>50.0</i>		<i>118</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.4</i>		<i>µg/kg</i>		<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>52.2</i>		<i>µg/kg</i>		<i>50.0</i>		<i>104</i>	<i>70-130</i>		
<u>LCS (1806965-BS1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.8		µg/kg		20.0		109	70-130		
Acetone	12.5		µg/kg		20.0		62	70-130		
Acrylonitrile	15.7		µg/kg		20.0		79	70-130		
Benzene	23.3		µg/kg		20.0		117	70-130		
Bromobenzene	21.1		µg/kg		20.0		106	70-130		
Bromochloromethane	21.6		µg/kg		20.0		108	70-130		
Bromodichloromethane	19.9		µg/kg		20.0		100	70-130		
Bromoform	17.3		µg/kg		20.0		86	70-130		
Bromomethane	21.1		µg/kg		20.0		106	70-130		
2-Butanone (MEK)	17.8		µg/kg		20.0		89	70-130		
n-Butylbenzene	18.0		µg/kg		20.0		90	70-130		
sec-Butylbenzene	20.7		µg/kg		20.0		104	70-130		
tert-Butylbenzene	21.1		µg/kg		20.0		106	70-130		
Carbon disulfide	21.6		µg/kg		20.0		108	70-130		
Carbon tetrachloride	23.4		µg/kg		20.0		117	70-130		
Chlorobenzene	21.4		µg/kg		20.0		107	70-130		
Chloroethane	21.2		µg/kg		20.0		106	70-130		
Chloroform	19.4		µg/kg		20.0		97	70-130		
Chloromethane	19.0		µg/kg		20.0		95	70-130		
2-Chlorotoluene	20.1		µg/kg		20.0		101	70-130		
4-Chlorotoluene	20.0		µg/kg		20.0		100	70-130		
1,2-Dibromo-3-chloropropane	15.0		µg/kg		20.0		75	70-130		
Dibromochloromethane	19.6		µg/kg		20.0		98	70-130		
1,2-Dibromoethane (EDB)	20.2		µg/kg		20.0		101	70-130		
Dibromomethane	19.5		µg/kg		20.0		98	70-130		
1,2-Dichlorobenzene	19.2		µg/kg		20.0		96	70-130		
1,3-Dichlorobenzene	21.2		µg/kg		20.0		106	70-130		
1,4-Dichlorobenzene	18.5		µg/kg		20.0		93	70-130		
Dichlorodifluoromethane (Freon12)	22.5		µg/kg		20.0		113	70-130		
1,1-Dichloroethane	21.6		µg/kg		20.0		108	70-130		
1,2-Dichloroethane	19.0		µg/kg		20.0		95	70-130		
1,1-Dichloroethene	22.8		µg/kg		20.0		114	70-130		
cis-1,2-Dichloroethene	23.3		µg/kg		20.0		117	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1806965 - SW846 5035A Soil (low level)										
<u>LCS (1806965-BS1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
trans-1,2-Dichloroethene	23.1		µg/kg		20.0		115	70-130		
1,2-Dichloropropane	21.0		µg/kg		20.0		105	70-130		
1,3-Dichloropropane	20.0		µg/kg		20.0		100	70-130		
2,2-Dichloropropane	23.0		µg/kg		20.0		115	70-130		
1,1-Dichloropropene	23.0		µg/kg		20.0		115	70-130		
cis-1,3-Dichloropropene	21.3		µg/kg		20.0		106	70-130		
trans-1,3-Dichloropropene	19.1		µg/kg		20.0		96	70-130		
Ethylbenzene	22.8		µg/kg		20.0		114	70-130		
Hexachlorobutadiene	20.7		µg/kg		20.0		103	70-130		
2-Hexanone (MBK)	17.2		µg/kg		20.0		86	70-130		
Isopropylbenzene	22.2		µg/kg		20.0		111	70-130		
4-Isopropyltoluene	21.3		µg/kg		20.0		106	70-130		
Methyl tert-butyl ether	20.1		µg/kg		20.0		100	70-130		
4-Methyl-2-pentanone (MIBK)	16.2		µg/kg		20.0		81	70-130		
Methylene chloride	20.7		µg/kg		20.0		104	70-130		
Naphthalene	14.2		µg/kg		20.0		71	70-130		
n-Propylbenzene	19.9		µg/kg		20.0		99	70-130		
Styrene	20.2		µg/kg		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	21.0		µg/kg		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	16.7		µg/kg		20.0		84	70-130		
Tetrachloroethene	24.4		µg/kg		20.0		122	70-130		
Toluene	23.3		µg/kg		20.0		116	70-130		
1,2,3-Trichlorobenzene	17.6		µg/kg		20.0		88	70-130		
1,2,4-Trichlorobenzene	18.1		µg/kg		20.0		90	70-130		
1,3,5-Trichlorobenzene	20.1		µg/kg		20.0		100	70-130		
1,1,1-Trichloroethane	22.7		µg/kg		20.0		113	70-130		
1,1,2-Trichloroethane	19.7		µg/kg		20.0		99	70-130		
Trichloroethene	22.9		µg/kg		20.0		115	70-130		
Trichlorofluoromethane (Freon 11)	19.7		µg/kg		20.0		98	70-130		
1,2,3-Trichloropropane	16.4		µg/kg		20.0		82	70-130		
1,2,4-Trimethylbenzene	20.0		µg/kg		20.0		100	70-130		
1,3,5-Trimethylbenzene	20.4		µg/kg		20.0		102	70-130		
Vinyl chloride	22.7		µg/kg		20.0		113	70-130		
m,p-Xylene	22.0		µg/kg		20.0		110	70-130		
o-Xylene	21.7		µg/kg		20.0		109	70-130		
Tetrahydrofuran	16.5		µg/kg		20.0		83	70-130		
Ethyl ether	16.3		µg/kg		20.0		81	70-130		
Tert-amyl methyl ether	16.8		µg/kg		20.0		84	70-130		
Ethyl tert-butyl ether	20.0		µg/kg		20.0		100	70-130		
Di-isopropyl ether	19.7		µg/kg		20.0		99	70-130		
Tert-Butanol / butyl alcohol	145		µg/kg		200		73	70-130		
1,4-Dioxane	196		µg/kg		200		98	70-130		
trans-1,4-Dichloro-2-butene	14.1		µg/kg		20.0		71	70-130		
Ethanol	330		µg/kg		400		83	70-130		
Surrogate: 4-Bromofluorobenzene	51.6		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	52.5		µg/kg		50.0		105	70-130		
Surrogate: 1,2-Dichloroethane-d4	43.7		µg/kg		50.0		87	70-130		
Surrogate: Dibromofluoromethane	49.2		µg/kg		50.0		98	70-130		
<u>LCS Dup (1806965-BSD1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.0		µg/kg		20.0		110	70-130	1	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806965 - SW846 5035A Soil (low level)										
LCS Dup (1806965-BSD1)					Prepared & Analyzed: 22-May-18					
Acetone	14.1		µg/kg		20.0		71	70-130	12	30
Acrylonitrile	20.2		µg/kg		20.0		101	70-130	25	30
Benzene	23.9		µg/kg		20.0		120	70-130	3	30
Bromobenzene	22.5		µg/kg		20.0		112	70-130	6	30
Bromochloromethane	23.6		µg/kg		20.0		118	70-130	9	30
Bromodichloromethane	21.6		µg/kg		20.0		108	70-130	8	30
Bromoform	20.1		µg/kg		20.0		100	70-130	15	30
Bromomethane	20.6		µg/kg		20.0		103	70-130	2	30
2-Butanone (MEK)	16.6		µg/kg		20.0		83	70-130	7	30
n-Butylbenzene	18.2		µg/kg		20.0		91	70-130	1	30
sec-Butylbenzene	21.7		µg/kg		20.0		108	70-130	4	30
tert-Butylbenzene	21.5		µg/kg		20.0		108	70-130	2	30
Carbon disulfide	21.6		µg/kg		20.0		108	70-130	0.3	30
Carbon tetrachloride	22.7		µg/kg		20.0		113	70-130	3	30
Chlorobenzene	21.4		µg/kg		20.0		107	70-130	0.09	30
Chloroethane	19.9		µg/kg		20.0		100	70-130	6	30
Chloroform	19.2		µg/kg		20.0		96	70-130	0.7	30
Chloromethane	23.3		µg/kg		20.0		116	70-130	20	30
2-Chlorotoluene	20.5		µg/kg		20.0		103	70-130	2	30
4-Chlorotoluene	20.7		µg/kg		20.0		104	70-130	3	30
1,2-Dibromo-3-chloropropane	18.8		µg/kg		20.0		94	70-130	23	30
Dibromochloromethane	21.9		µg/kg		20.0		110	70-130	11	30
1,2-Dibromoethane (EDB)	23.8		µg/kg		20.0		119	70-130	16	30
Dibromomethane	22.6		µg/kg		20.0		113	70-130	15	30
1,2-Dichlorobenzene	19.8		µg/kg		20.0		99	70-130	3	30
1,3-Dichlorobenzene	22.4		µg/kg		20.0		112	70-130	6	30
1,4-Dichlorobenzene	19.0		µg/kg		20.0		95	70-130	3	30
Dichlorodifluoromethane (Freon12)	24.0		µg/kg		20.0		120	70-130	6	30
1,1-Dichloroethane	21.0		µg/kg		20.0		105	70-130	3	30
1,2-Dichloroethane	19.9		µg/kg		20.0		99	70-130	5	30
1,1-Dichloroethene	23.5		µg/kg		20.0		117	70-130	3	30
cis-1,2-Dichloroethene	23.4		µg/kg		20.0		117	70-130	0.6	30
trans-1,2-Dichloroethene	23.5		µg/kg		20.0		117	70-130	2	30
1,2-Dichloropropane	21.9		µg/kg		20.0		110	70-130	4	30
1,3-Dichloropropane	22.0		µg/kg		20.0		110	70-130	9	30
2,2-Dichloropropane	22.8		µg/kg		20.0		114	70-130	0.9	30
1,1-Dichloropropene	23.4		µg/kg		20.0		117	70-130	2	30
cis-1,3-Dichloropropene	23.2		µg/kg		20.0		116	70-130	9	30
trans-1,3-Dichloropropene	21.2		µg/kg		20.0		106	70-130	11	30
Ethylbenzene	22.2		µg/kg		20.0		111	70-130	3	30
Hexachlorobutadiene	20.4		µg/kg		20.0		102	70-130	1	30
2-Hexanone (MBK)	17.5		µg/kg		20.0		88	70-130	2	30
Isopropylbenzene	22.6		µg/kg		20.0		113	70-130	2	30
4-Isopropyltoluene	20.8		µg/kg		20.0		104	70-130	2	30
Methyl tert-butyl ether	23.4		µg/kg		20.0		117	70-130	16	30
4-Methyl-2-pentanone (MIBK)	19.0		µg/kg		20.0		95	70-130	16	30
Methylene chloride	20.8		µg/kg		20.0		104	70-130	0.5	30
Naphthalene	19.9	QR2	µg/kg		20.0		100	70-130	34	30
n-Propylbenzene	20.4		µg/kg		20.0		102	70-130	3	30
Styrene	21.2		µg/kg		20.0		106	70-130	4	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806965 - SW846 5035A Soil (low level)										
LCS Dup (1806965-BSD1)					Prepared & Analyzed: 22-May-18					
1,1,1,2-Tetrachloroethane	21.0		µg/kg		20.0		105	70-130	0	30
1,1,2,2-Tetrachloroethane	20.2		µg/kg		20.0		101	70-130	19	30
Tetrachloroethene	24.8		µg/kg		20.0		124	70-130	2	30
Toluene	23.9		µg/kg		20.0		120	70-130	3	30
1,2,3-Trichlorobenzene	20.6		µg/kg		20.0		103	70-130	16	30
1,2,4-Trichlorobenzene	21.0		µg/kg		20.0		105	70-130	15	30
1,3,5-Trichlorobenzene	21.4		µg/kg		20.0		107	70-130	6	30
1,1,1-Trichloroethane	22.0		µg/kg		20.0		110	70-130	3	30
1,1,2-Trichloroethane	23.1		µg/kg		20.0		115	70-130	16	30
Trichloroethene	23.3		µg/kg		20.0		116	70-130	1	30
Trichlorofluoromethane (Freon 11)	17.8		µg/kg		20.0		89	70-130	10	30
1,2,3-Trichloropropane	19.6		µg/kg		20.0		98	70-130	18	30
1,2,4-Trimethylbenzene	20.9		µg/kg		20.0		105	70-130	5	30
1,3,5-Trimethylbenzene	20.7		µg/kg		20.0		104	70-130	2	30
Vinyl chloride	20.9		µg/kg		20.0		104	70-130	8	30
m,p-Xylene	21.6		µg/kg		20.0		108	70-130	2	30
o-Xylene	21.9		µg/kg		20.0		109	70-130	0.8	30
Tetrahydrofuran	20.5		µg/kg		20.0		103	70-130	22	30
Ethyl ether	18.7		µg/kg		20.0		94	70-130	14	30
Tert-amyl methyl ether	19.9		µg/kg		20.0		100	70-130	17	30
Ethyl tert-butyl ether	22.4		µg/kg		20.0		112	70-130	11	30
Di-isopropyl ether	21.2		µg/kg		20.0		106	70-130	7	30
Tert-Butanol / butyl alcohol	212	QR2	µg/kg		200		106	70-130	37	30
1,4-Dioxane	192		µg/kg		200		96	70-130	2	30
trans-1,4-Dichloro-2-butene	18.6		µg/kg		20.0		93	70-130	28	30
Ethanol	360		µg/kg		400		90	70-130	8	30
Surrogate: 4-Bromofluorobenzene	53.8		µg/kg		50.0		108	70-130		
Surrogate: Toluene-d8	54.4		µg/kg		50.0		109	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.4		µg/kg		50.0		93	70-130		
Surrogate: Dibromofluoromethane	50.4		µg/kg		50.0		101	70-130		
Batch 1806967 - SW846 5035A Soil (high level)										
Blank (1806967-BLK1)					Prepared & Analyzed: 22-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806967 - SW846 5035A Soil (high level)										
Blank (1806967-BLK1)					<u>Prepared & Analyzed: 22-May-18</u>					
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1806967 - SW846 5035A Soil (high level)										
<u>Blank (1806967-BLK1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.8		µg/kg		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	49.9		µg/kg		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.5		µg/kg		50.0		107	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.8		µg/kg		50.0		104	70-130		
<u>LCS (1806967-BS1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.9	D	µg/kg		20.0		114	70-130		
Acetone	19.1	D	µg/kg		20.0		96	70-130		
Acrylonitrile	20.9	D	µg/kg		20.0		104	70-130		
Benzene	21.6	D	µg/kg		20.0		108	70-130		
Bromobenzene	21.9	D	µg/kg		20.0		110	70-130		
Bromochloromethane	22.8	D	µg/kg		20.0		114	70-130		
Bromodichloromethane	22.9	D	µg/kg		20.0		114	70-130		
Bromoform	22.5	D	µg/kg		20.0		112	70-130		
Bromomethane	25.9	D	µg/kg		20.0		130	70-130		
2-Butanone (MEK)	20.2	D	µg/kg		20.0		101	70-130		
n-Butylbenzene	19.4	D	µg/kg		20.0		97	70-130		
sec-Butylbenzene	22.4	D	µg/kg		20.0		112	70-130		
tert-Butylbenzene	20.8	D	µg/kg		20.0		104	70-130		
Carbon disulfide	22.1	D	µg/kg		20.0		111	70-130		
Carbon tetrachloride	24.6	D	µg/kg		20.0		123	70-130		
Chlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
Chloroethane	23.7	D	µg/kg		20.0		119	70-130		
Chloroform	21.1	D	µg/kg		20.0		105	70-130		
Chloromethane	20.6	D	µg/kg		20.0		103	70-130		
2-Chlorotoluene	23.0	D	µg/kg		20.0		115	70-130		
4-Chlorotoluene	23.0	D	µg/kg		20.0		115	70-130		
1,2-Dibromo-3-chloropropane	15.8	D	µg/kg		20.0		79	70-130		
Dibromochloromethane	22.9	D	µg/kg		20.0		115	70-130		
1,2-Dibromoethane (EDB)	21.3	D	µg/kg		20.0		106	70-130		
Dibromomethane	21.0	D	µg/kg		20.0		105	70-130		
1,2-Dichlorobenzene	17.3	D	µg/kg		20.0		87	70-130		
1,3-Dichlorobenzene	26.8	QM9, D	µg/kg		20.0		134	70-130		
1,4-Dichlorobenzene	20.3	D	µg/kg		20.0		102	70-130		
Dichlorodifluoromethane (Freon12)	23.7	D	µg/kg		20.0		118	70-130		
1,1-Dichloroethane	21.7	D	µg/kg		20.0		108	70-130		
1,2-Dichloroethane	22.0	D	µg/kg		20.0		110	70-130		
1,1-Dichloroethene	21.8	D	µg/kg		20.0		109	70-130		
cis-1,2-Dichloroethene	21.3	D	µg/kg		20.0		106	70-130		
trans-1,2-Dichloroethene	21.0	D	µg/kg		20.0		105	70-130		
1,2-Dichloropropane	20.8	D	µg/kg		20.0		104	70-130		
1,3-Dichloropropane	21.2	D	µg/kg		20.0		106	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806967 - SW846 5035A Soil (high level)										
LCS (1806967-BS1)					Prepared & Analyzed: 22-May-18					
2,2-Dichloropropane	22.6	D	µg/kg		20.0		113	70-130		
1,1-Dichloropropene	22.1	D	µg/kg		20.0		111	70-130		
cis-1,3-Dichloropropene	21.0	D	µg/kg		20.0		105	70-130		
trans-1,3-Dichloropropene	24.2	D	µg/kg		20.0		121	70-130		
Ethylbenzene	20.7	D	µg/kg		20.0		104	70-130		
Hexachlorobutadiene	14.1	D	µg/kg		20.0		70	70-130		
2-Hexanone (MBK)	19.5	D	µg/kg		20.0		98	70-130		
Isopropylbenzene	20.4	D	µg/kg		20.0		102	70-130		
4-Isopropyltoluene	18.9	D	µg/kg		20.0		95	70-130		
Methyl tert-butyl ether	21.2	D	µg/kg		20.0		106	70-130		
4-Methyl-2-pentanone (MIBK)	21.9	D	µg/kg		20.0		109	70-130		
Methylene chloride	21.8	D	µg/kg		20.0		109	70-130		
Naphthalene	12.2	QC2, D	µg/kg		20.0		61	70-130		
n-Propylbenzene	22.2	D	µg/kg		20.0		111	70-130		
Styrene	20.9	D	µg/kg		20.0		104	70-130		
1,1,1,2-Tetrachloroethane	22.2	D	µg/kg		20.0		111	70-130		
1,1,2,2-Tetrachloroethane	22.5	D	µg/kg		20.0		113	70-130		
Tetrachloroethene	21.0	D	µg/kg		20.0		105	70-130		
Toluene	21.5	D	µg/kg		20.0		108	70-130		
1,2,3-Trichlorobenzene	12.4	QC2, D	µg/kg		20.0		62	70-130		
1,2,4-Trichlorobenzene	12.5	QC2, D	µg/kg		20.0		63	70-130		
1,3,5-Trichlorobenzene	14.3	D	µg/kg		20.0		72	70-130		
1,1,1-Trichloroethane	23.1	D	µg/kg		20.0		115	70-130		
1,1,2-Trichloroethane	21.8	D	µg/kg		20.0		109	70-130		
Trichloroethene	21.8	D	µg/kg		20.0		109	70-130		
Trichlorofluoromethane (Freon 11)	25.1	D	µg/kg		20.0		125	70-130		
1,2,3-Trichloropropane	23.0	D	µg/kg		20.0		115	70-130		
1,2,4-Trimethylbenzene	21.2	D	µg/kg		20.0		106	70-130		
1,3,5-Trimethylbenzene	20.9	D	µg/kg		20.0		105	70-130		
Vinyl chloride	22.8	D	µg/kg		20.0		114	70-130		
m,p-Xylene	22.3	D	µg/kg		20.0		111	70-130		
o-Xylene	20.4	D	µg/kg		20.0		102	70-130		
Tetrahydrofuran	19.3	D	µg/kg		20.0		97	70-130		
Ethyl ether	24.2	D	µg/kg		20.0		121	70-130		
Tert-amyl methyl ether	18.4	D	µg/kg		20.0		92	70-130		
Ethyl tert-butyl ether	18.6	D	µg/kg		20.0		93	70-130		
Di-isopropyl ether	18.1	D	µg/kg		20.0		91	70-130		
Tert-Butanol / butyl alcohol	211	D	µg/kg		200		106	70-130		
1,4-Dioxane	203	D	µg/kg		200		102	70-130		
trans-1,4-Dichloro-2-butene	26.3	QM9, D	µg/kg		20.0		131	70-130		
Ethanol	389	D	µg/kg		400		97	70-130		
Surrogate: 4-Bromofluorobenzene	49.7		µg/kg		50.0		99	70-130		
Surrogate: Toluene-d8	51.5		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.8		µg/kg		50.0		108	70-130		
Surrogate: Dibromofluoromethane	52.6		µg/kg		50.0		105	70-130		
LCS Dup (1806967-BSD1)					Prepared & Analyzed: 22-May-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.6	D	µg/kg		20.0		113	70-130	1	30
Acetone	19.7	D	µg/kg		20.0		98	70-130	3	30
Acrylonitrile	22.2	D	µg/kg		20.0		111	70-130	6	30
Benzene	21.6	D	µg/kg		20.0		108	70-130	0.1	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806967 - SW846 5035A Soil (high level)										
LCS Dup (1806967-BSD1)					Prepared & Analyzed: 22-May-18					
Bromobenzene	20.6	D	µg/kg		20.0		103	70-130	6	30
Bromochloromethane	22.3	D	µg/kg		20.0		112	70-130	2	30
Bromodichloromethane	22.5	D	µg/kg		20.0		112	70-130	2	30
Bromoform	22.7	D	µg/kg		20.0		114	70-130	1	30
Bromomethane	24.6	D	µg/kg		20.0		123	70-130	5	30
2-Butanone (MEK)	21.6	D	µg/kg		20.0		108	70-130	6	30
n-Butylbenzene	20.0	D	µg/kg		20.0		100	70-130	3	30
sec-Butylbenzene	22.3	D	µg/kg		20.0		112	70-130	0.2	30
tert-Butylbenzene	21.3	D	µg/kg		20.0		106	70-130	2	30
Carbon disulfide	20.7	D	µg/kg		20.0		103	70-130	7	30
Carbon tetrachloride	23.9	D	µg/kg		20.0		119	70-130	3	30
Chlorobenzene	20.4	D	µg/kg		20.0		102	70-130	1	30
Chloroethane	22.0	D	µg/kg		20.0		110	70-130	8	30
Chloroform	20.5	D	µg/kg		20.0		103	70-130	3	30
Chloromethane	20.0	D	µg/kg		20.0		100	70-130	3	30
2-Chlorotoluene	22.4	D	µg/kg		20.0		112	70-130	2	30
4-Chlorotoluene	22.1	D	µg/kg		20.0		111	70-130	4	30
1,2-Dibromo-3-chloropropane	16.3	D	µg/kg		20.0		82	70-130	3	30
Dibromochloromethane	22.5	D	µg/kg		20.0		113	70-130	2	30
1,2-Dibromoethane (EDB)	21.3	D	µg/kg		20.0		107	70-130	0.05	30
Dibromomethane	21.9	D	µg/kg		20.0		110	70-130	4	30
1,2-Dichlorobenzene	17.1	D	µg/kg		20.0		85	70-130	1	30
1,3-Dichlorobenzene	26.0	D	µg/kg		20.0		130	70-130	3	30
1,4-Dichlorobenzene	19.9	D	µg/kg		20.0		99	70-130	2	30
Dichlorodifluoromethane (Freon12)	22.7	D	µg/kg		20.0		114	70-130	4	30
1,1-Dichloroethane	22.0	D	µg/kg		20.0		110	70-130	1	30
1,2-Dichloroethane	21.5	D	µg/kg		20.0		108	70-130	2	30
1,1-Dichloroethene	21.3	D	µg/kg		20.0		107	70-130	2	30
cis-1,2-Dichloroethene	21.0	D	µg/kg		20.0		105	70-130	2	30
trans-1,2-Dichloroethene	20.6	D	µg/kg		20.0		103	70-130	2	30
1,2-Dichloropropane	20.1	D	µg/kg		20.0		100	70-130	3	30
1,3-Dichloropropane	21.4	D	µg/kg		20.0		107	70-130	0.9	30
2,2-Dichloropropane	22.1	D	µg/kg		20.0		110	70-130	2	30
1,1-Dichloropropene	22.2	D	µg/kg		20.0		111	70-130	0.2	30
cis-1,3-Dichloropropene	20.6	D	µg/kg		20.0		103	70-130	1	30
trans-1,3-Dichloropropene	24.1	D	µg/kg		20.0		120	70-130	0.6	30
Ethylbenzene	20.3	D	µg/kg		20.0		102	70-130	2	30
Hexachlorobutadiene	14.5	D	µg/kg		20.0		73	70-130	3	30
2-Hexanone (MBK)	20.8	D	µg/kg		20.0		104	70-130	7	30
Isopropylbenzene	19.6	D	µg/kg		20.0		98	70-130	4	30
4-Isopropyltoluene	19.0	D	µg/kg		20.0		95	70-130	0.3	30
Methyl tert-butyl ether	21.3	D	µg/kg		20.0		107	70-130	0.7	30
4-Methyl-2-pentanone (MIBK)	23.1	D	µg/kg		20.0		116	70-130	6	30
Methylene chloride	21.0	D	µg/kg		20.0		105	70-130	4	30
Naphthalene	12.7	QC2, D	µg/kg		20.0		64	70-130	4	30
n-Propylbenzene	21.2	D	µg/kg		20.0		106	70-130	5	30
Styrene	20.2	D	µg/kg		20.0		101	70-130	3	30
1,1,1,2-Tetrachloroethane	21.8	D	µg/kg		20.0		109	70-130	2	30
1,1,1,2,2-Tetrachloroethane	22.6	D	µg/kg		20.0		113	70-130	0.5	30
Tetrachloroethene	20.7	D	µg/kg		20.0		103	70-130	2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1806967 - SW846 5035A Soil (high level)										
<u>LCS Dup (1806967-BSD1)</u>					<u>Prepared & Analyzed: 22-May-18</u>					
Toluene	21.2	D	µg/kg		20.0		106	70-130	2	30
1,2,3-Trichlorobenzene	13.1	QC2, D	µg/kg		20.0		65	70-130	6	30
1,2,4-Trichlorobenzene	13.0	QC2, D	µg/kg		20.0		65	70-130	4	30
1,3,5-Trichlorobenzene	14.7	D	µg/kg		20.0		74	70-130	3	30
1,1,1-Trichloroethane	22.8	D	µg/kg		20.0		114	70-130	1	30
1,1,2-Trichloroethane	21.5	D	µg/kg		20.0		108	70-130	1	30
Trichloroethene	20.7	D	µg/kg		20.0		104	70-130	5	30
Trichlorofluoromethane (Freon 11)	24.0	D	µg/kg		20.0		120	70-130	5	30
1,2,3-Trichloropropane	23.1	D	µg/kg		20.0		115	70-130	0.4	30
1,2,4-Trimethylbenzene	21.8	D	µg/kg		20.0		109	70-130	3	30
1,3,5-Trimethylbenzene	20.8	D	µg/kg		20.0		104	70-130	0.6	30
Vinyl chloride	21.7	D	µg/kg		20.0		108	70-130	5	30
m,p-Xylene	21.7	D	µg/kg		20.0		108	70-130	3	30
o-Xylene	20.5	D	µg/kg		20.0		103	70-130	0.3	30
Tetrahydrofuran	20.3	D	µg/kg		20.0		102	70-130	5	30
Ethyl ether	24.4	D	µg/kg		20.0		122	70-130	0.9	30
Tert-amyl methyl ether	18.9	D	µg/kg		20.0		95	70-130	3	30
Ethyl tert-butyl ether	18.6	D	µg/kg		20.0		93	70-130	0.2	30
Di-isopropyl ether	18.7	D	µg/kg		20.0		94	70-130	3	30
Tert-Butanol / butyl alcohol	227	D	µg/kg		200		114	70-130	7	30
1,4-Dioxane	207	D	µg/kg		200		103	70-130	2	30
trans-1,4-Dichloro-2-butene	25.3	D	µg/kg		20.0		127	70-130	4	30
Ethanol	415	D	µg/kg		400		104	70-130	7	30
Surrogate: 4-Bromofluorobenzene	49.4		µg/kg		50.0		99	70-130		
Surrogate: Toluene-d8	51.6		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	53.5		µg/kg		50.0		107	70-130		
Surrogate: Dibromofluoromethane	52.5		µg/kg		50.0		105	70-130		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1805750 - General Preparation										
<u>Duplicate (1805750-DUP1)</u>				<u>Source: SC46117-34</u>		<u>Prepared & Analyzed: 27-Apr-18</u>				
% Solids	83.3		%			84.4			1	5
<u>Duplicate (1805750-DUP2)</u>				<u>Source: SC46117-35</u>		<u>Prepared & Analyzed: 27-Apr-18</u>				
% Solids	79.9		%			80.6			0.9	5
Batch 1806941 - General Preparation										
<u>Duplicate (1806941-DUP1)</u>				<u>Source: SC46117-05</u>		<u>Prepared & Analyzed: 21-May-18</u>				
% Solids	76.6		%			75.1			2	5
<u>Duplicate (1806941-DUP2)</u>				<u>Source: SC46117-06</u>		<u>Prepared & Analyzed: 21-May-18</u>				
% Solids	86.7		%			86.8			0.2	5

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8015D MOD</u>										
Batch 428588A - 428588-SW80										
<u>BLK (CA37730-BLK)</u>					<u>Prepared & Analyzed: 02-May-18</u>					
Propanol	< 1.0		mg/kg	1.0				-		
n-Butanol	< 1.0		mg/kg	1.0				-		
Isopropyl alcohol	< 1.0		mg/kg	1.0				-		
Isobutyl alcohol	< 1.0		mg/kg	1.0				-		
Ethanol	< 1.0		mg/kg	1.0				-		
Methanol	< 1.0		mg/kg	1.0				-		
Sec-Butanol	< 1.0		mg/kg	1.0				-		
<i>Surrogate: % 2-Pentanol(surr)</i>	75		mg/kg		10			70-130		
<u>LCS (CA37730-LCS)</u>					<u>Prepared: 02-May-18 Analyzed: 03-May-18</u>					
Methanol	8.718		mg/kg	1.0	10		87	70-130		30
n-Butanol	9.475		mg/kg	1.0	10		95	70-130		30
Isopropyl alcohol	9.440		mg/kg	1.0	10		94	70-130		30
Isobutyl alcohol	8.920		mg/kg	1.0	10		89	70-130		30
Ethanol	8.978		mg/kg	1.0	10		90	70-130		30
Sec-Butanol	9.037		mg/kg	1.0	10		90	70-130		30
Propanol	8.598		mg/kg	1.0	10		86	70-130		30
<i>Surrogate: % 2-Pentanol(surr)</i>	9.210		mg/kg		10		92	70-130		
<u>LCSD (CA37730-LCSD)</u>					<u>Prepared: 02-May-18 Analyzed: 03-May-18</u>					
Isobutyl alcohol	8.331		%	%	10		83	70-130	7.0	30
Methanol	8.033		%	%	10		80	70-130	8.4	30
n-Butanol	8.916		%	%	10		89	70-130	6.5	30
Propanol	7.993		%	%	10		80	70-130	7.2	30
Ethanol	8.325		%	%	10		83	70-130	8.1	30
Sec-Butanol	8.287		%	%	10		83	70-130	8.1	30
Isopropyl alcohol	8.713		%	%	10		87	70-130	7.7	30
<i>Surrogate: % 2-Pentanol(surr)</i>	8.581		%		10		86	70-130		
<u>MS (CA37730-MS)</u>					<u>Source: SC46117-20</u>	<u>Prepared: 02-May-18 Analyzed: 03-May-18</u>				
Isobutyl alcohol	9.803		mg/kg	1.0	10	BRL	98	70-130		30
Sec-Butanol	9.968		mg/kg	1.0	10	BRL	100	70-130		30
Propanol	7.869		mg/kg	1.0	10	BRL	79	70-130		30
n-Butanol	9.344		mg/kg	1.0	10	BRL	93	70-130		30
Isopropyl alcohol	10.29		mg/kg	1.0	10	BRL	103	70-130		30
Ethanol	8.986		mg/kg	1.0	10	BRL	90	70-130		30
Methanol	4.792	m	mg/kg	1.0	10	BRL	48	70-130		30
<i>Surrogate: % 2-Pentanol(surr)</i>	10.23		mg/kg		10		102	70-130		
<u>MSD (CA37730-MSD)</u>					<u>Source: SC46117-20</u>	<u>Prepared: 02-May-18 Analyzed: 03-May-18</u>				
n-Butanol	7.699		%	%	10	BRL	77	70-130	18.8	30
Ethanol	7.933		%	%	10	BRL	79	70-130	13.0	30
Isobutyl alcohol	7.705		%	%	10	BRL	77	70-130	24.0	30
Methanol	6.459	m	%	%	10	BRL	65	70-130	30.1	30
Propanol	7.155		%	%	10	BRL	72	70-130	9.3	30
Sec-Butanol	7.946		%	%	10	BRL	79	70-130	23.5	30
Isopropyl alcohol	8.246		%	%	10	BRL	82	70-130	22.7	30
<i>Surrogate: % 2-Pentanol(surr)</i>	8.477		%		10		85	70-130		
Batch 428596A - 428596-SW80										
<u>BLK (CA37728-BLK)</u>					<u>Prepared: 30-Apr-18 Analyzed: 01-May-18</u>					
Sec-Butanol	< 1.0		mg/l	1.0				-		
n-Butyl alcohol	< 1.0		mg/l	1.0				-		

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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8015D MOD</u>										
Batch 428596A - 428596-SW80										
<u>BLK (CA37728-BLK)</u>					Prepared: 30-Apr-18 Analyzed: 01-May-18					
Methanol	< 1.0		mg/l	1.0				-		
Isopropyl alcohol	< 1.0		mg/l	1.0				-		
Propanol	< 1.0		mg/l	1.0				-		
Isobutyl alcohol	< 1.0		mg/l	1.0				-		
Ethanol	< 1.0		mg/l	1.0				-		
<i>Surrogate: % 2-Pentanol(surr)</i>	89		mg/l		10			70-130		
<u>LCS (CA37728-LCS)</u>					Prepared: 30-Apr-18 Analyzed: 01-May-18					
Propanol	7.408	r	mg/l	1.0	10		74	70-130		30
Sec-Butanol	7.415		mg/l	1.0	10		74	70-130		30
Methanol	8.778		mg/l	1.0	10		88	70-130		30
Isopropyl alcohol	7.345		mg/l	1.0	10		73	70-130		30
Isobutyl alcohol	7.629		mg/l	1.0	10		76	70-130		30
Ethanol	8.008		mg/l	1.0	10		80	70-130		30
n-Butyl alcohol	7.998		mg/l	1.0	10		80	70-130		30
<i>Surrogate: % 2-Pentanol(surr)</i>	8.092		mg/l		10		81	70-130		
<u>LCSD (CA37728-LCSD)</u>					Prepared: 30-Apr-18 Analyzed: 01-May-18					
Methanol	11.68		%	%	10		117	70-130	28.3	30
Ethanol	10.25		%	%	10		102	70-130	24.2	30
Isopropyl alcohol	9.462		%	%	10		95	70-130	26.2	30
n-Butyl alcohol	9.913		%	%	10		99	70-130	21.2	30
Propanol	10.97	r	%	%	10		110	70-130	39.1	30
Sec-Butanol	9.412		%	%	10		94	70-130	23.8	30
Isobutyl alcohol	9.279		%	%	10		93	70-130	20.1	30
<i>Surrogate: % 2-Pentanol(surr)</i>	9.008		%		10		90	70-130		
<u>MS (CA37728-MS)</u>					Source: SC46117-02	Prepared: 30-Apr-18 Analyzed: 01-May-18				
Propanol	13.12	m	mg/l	1.0	10	BRL	131	70-130		30
Isopropyl alcohol	11.87		mg/l	1.0	10	BRL	119	70-130		30
Isobutyl alcohol	11.89		mg/l	1.0	10	BRL	119	70-130		30
Ethanol	12.63		mg/l	1.0	10	BRL	126	70-130		30
n-Butyl alcohol	12.32		mg/l	1.0	10	BRL	123	70-130		30
Sec-Butanol	11.59		mg/l	1.0	10	BRL	116	70-130		30
Methanol	13.41	m	mg/l	1.0	10	BRL	134	70-130		30
<i>Surrogate: % 2-Pentanol(surr)</i>	12.08		mg/l		10		121	70-130		
<u>MSD (CA37728-MSD)</u>					Source: SC46117-02	Prepared: 30-Apr-18 Analyzed: 01-May-18				
Propanol	13.49	m	%	%	10	BRL	135	70-130	3.0	30
n-Butyl alcohol	12.39		%	%	10	BRL	124	70-130	0.8	30
Methanol	14.61	m	%	%	10	BRL	146	70-130	8.6	30
Isopropyl alcohol	12.12		%	%	10	BRL	121	70-130	1.7	30
Isobutyl alcohol	11.95		%	%	10	BRL	119	70-130	0.0	30
Sec-Butanol	11.96		%	%	10	BRL	120	70-130	3.4	30
Ethanol	12.93		%	%	10	BRL	129	70-130	2.4	30
<i>Surrogate: % 2-Pentanol(surr)</i>	11.89		%		10		119	70-130		

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC46117-05	<i>SB-04-1</i>
SC46117-05	<i>SB-04-1</i>
SC46117-06	<i>SB-04-4</i>
SC46117-06	<i>SB-04-4</i>
SC46117-08	<i>SB-08-1</i>
SC46117-08	<i>SB-08-1</i>
SC46117-09	<i>SB-08-4</i>
SC46117-09	<i>SB-08-4</i>
SC46117-11	<i>SB-12-1</i>
SC46117-11	<i>SB-12-1</i>
SC46117-12	<i>SB-12-4</i>
SC46117-12	<i>SB-12-4</i>
SC46117-14	<i>SB-11-1</i>
SC46117-14	<i>SB-11-1</i>
SC46117-15	<i>SB-11-4</i>
SC46117-15	<i>SB-11-4</i>
SC46117-20	<i>SB-07-1</i>
SC46117-21	<i>SB-07-4</i>
SC46117-22	<i>SB-07-8</i>
SC46117-22	<i>SB-07-8</i>
SC46117-23	<i>SB-03-1</i>
SC46117-24	<i>SB-03-4</i>
SC46117-25	<i>SB-03-8</i>
SC46117-25	<i>SB-03-8</i>
SC46117-26	<i>SB-01-2</i>
SC46117-27	<i>SB-01-4</i>
SC46117-29	<i>DUP042618</i>
SC46117-30	<i>DUP042618-2</i>
SC46117-34	<i>SB-02-2</i>
SC46117-35	<i>SB-02-5</i>

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
m	This parameter is outside laboratory ms/msd specified recovery limits.
O01	This compound is a common laboratory contaminant.
O09	This sample was analyzed outside the EPA recommended holding time per client request.
Q1	This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
Q2	This parameter exceeds laboratory specified limits.
Q3	This parameter is not certified by NY NELAC for this matrix.
Q4	Alcohol Comment: Low surrogate recovery observed. Sample was re-extracted with similar results.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
r	This parameter is outside laboratory rpd specified recovery limits.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
VOC11	This compound was over the instrument calibration range and was not re-analyzed from the Methanol vial because a minimum 50x dilution factor is required. The dilution factor combined with reporting limit would mean the final concentration would be BRL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 5

Special Handling:

☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.Report To: ERM

Invoice To: _____

Project No: 043 6688Site Name: Avoy Demson - OrangeburgLocation: Site Route 303, OrangeburgSample(s): 1 HeavyState: NYTelephone #: 800-766-8517Project Mgr: Joan Ferret

P.O. No.: _____

Quote #: _____

F=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

O=Oil

SO=Soil

SL=Sludge

A=Indoor/Ambient Air

SG=Soil Gas

X1= _____ X2= _____ X3= _____

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

Containers

Analysis

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may applyMA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ NoStandard ☐ No QCDQA* ☐ No QCASP A* ☐ No QCNU Reduced* ☐ No QCTier II* ☐ No QCTier IV* ☐ No QC

Other: _____

State-specific reporting standards: _____

Check if chlorinated ☐

HOLD

Relinquished by: _____

Received by: _____

Date:

Time:

Temp °C

☐ EDD format: _____
☐ E-mail to: _____

Condition upon receipt: _____

Custody Seals: _____

☐ Present☐ Intact☐ Broken☐ Ambient☒ Ice☐ Refrigerated☐ DI VOA Frozen☐ Soil Jar Frozen



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 4 of 5

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Jason, Fernat @ ERM.com

Invoice To: _____

Project No: 0438688Site Name: Avery Davidson - OrangeburgLocation: 528 Route 303, OrangeburgSampler(s): J. HarveyState: NYTelephone #: 860-466-8517

P.O. No.: _____

Quote #: _____

F=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

List Preservative Code below:

QA/QC Reporting Notes:
* additional changes may applyDW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

G=Grab

C=Composite

Lab ID: Sample ID: Date: Time: Type

Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Containers

Analysis

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
Standard ☐ No QC
DQA* ☐ No
ASP A* ☐ ASP B* ☒
NU Reduced* ☐ NU Full* ☐
Filter II* ☐ Filter IV* ☐
Other: _____
State-specific reporting standards: _____

Lab ID	Sample ID	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers	Analysis	Check if chlorinated	QA/QC Reporting Notes
SL46117-31	SB-06-1	4/26/18	10:00		50			1		3	Errors		
32	SB-06-4		10:25										
33	SB-06-6		10:35										
34	SB-02-2		10:55										
35	SB-02-5		11:05										
36	SB-02-8		11:15										
37	SB-05-1		11:40										
38	SB-05-4		11:56										
39	SB-05-8		12:00										
40	SB-04-1		12:00										

Relinquished by: _____

Received by: _____

Date: _____

Time: _____

Temp °C

Observed

E-mail to: _____

Condition upon receipt:

Custody Seals: ☐ Present ☐ Intact ☐ Broken

Signature: [Signature]
Date: 4-26-18
Time: 12:30
Corrected IR ID #: 3.4
Correcting Factor: 0

Signature: [Signature]
Date: 4/26/18
Time: 1920
Corrected IR ID #: 1
Correcting Factor: 0

☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

<i>Laboratory ID</i>	<i>Client ID</i>	<i>Analysis</i>	<i>Added</i>
SC46117-05	SB-04-1	Solids, Percent	5/21/2018
SC46117-05	SB-04-1	VOC Soil Extraction	5/21/2018
SC46117-05	SB-04-1	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-06	SB-04-4	Solids, Percent	5/21/2018
SC46117-06	SB-04-4	VOC Soil Extraction	5/21/2018
SC46117-06	SB-04-4	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-08	SB-08-1	Solids, Percent	5/21/2018
SC46117-08	SB-08-1	VOC Soil Extraction	5/21/2018
SC46117-08	SB-08-1	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-09	SB-08-4	Solids, Percent	5/21/2018
SC46117-09	SB-08-4	VOC Soil Extraction	5/21/2018
SC46117-09	SB-08-4	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-11	SB-12-1	Solids, Percent	5/21/2018
SC46117-11	SB-12-1	VOC Soil Extraction	5/21/2018
SC46117-11	SB-12-1	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-12	SB-12-4	Solids, Percent	5/21/2018
SC46117-12	SB-12-4	VOC Soil Extraction	5/21/2018
SC46117-12	SB-12-4	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-14	SB-11-1	Solids, Percent	5/21/2018
SC46117-14	SB-11-1	VOC Soil Extraction	5/21/2018
SC46117-14	SB-11-1	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-15	SB-11-4	Solids, Percent	5/21/2018
SC46117-15	SB-11-4	VOC Soil Extraction	5/21/2018
SC46117-15	SB-11-4	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-22	SB-07-8	Solids, Percent	5/21/2018
SC46117-22	SB-07-8	VOC Soil Extraction	5/21/2018
SC46117-22	SB-07-8	Volatile Organic Compounds by SW846 8260	5/21/2018
SC46117-25	SB-03-8	Solids, Percent	5/21/2018
SC46117-25	SB-03-8	VOC Soil Extraction	5/21/2018
SC46117-25	SB-03-8	Volatile Organic Compounds by SW846 8260	5/21/2018

Batch Summary

'Inonel'

Subcontracted Analyses

SC46117-20 (SB-07-1)
SC46117-21 (SB-07-4)
SC46117-23 (SB-03-1)
SC46117-24 (SB-03-4)
SC46117-26 (SB-01-2)
SC46117-27 (SB-01-4)
SC46117-29 (DUP042618)
SC46117-30 (DUP042618-2)
SC46117-34 (SB-02-2)
SC46117-35 (SB-02-5)

1805749

General Chemistry Parameters

SC46117-20 (SB-07-1)
SC46117-21 (SB-07-4)
SC46117-23 (SB-03-1)
SC46117-24 (SB-03-4)
SC46117-26 (SB-01-2)
SC46117-27 (SB-01-4)
SC46117-29 (DUP042618)
SC46117-30 (DUP042618-2)

1805750

General Chemistry Parameters

1805750-DUP1
1805750-DUP2
SC46117-34 (SB-02-2)
SC46117-35 (SB-02-5)

1805846

Volatile Organic Compounds

1805846-BLK1
1805846-BS1
1805846-BSD1
SC46117-20 (SB-07-1)
SC46117-21 (SB-07-4)
SC46117-23 (SB-03-1)
SC46117-24 (SB-03-4)
SC46117-26 (SB-01-2)
SC46117-27 (SB-01-4)

1805848

Volatile Organic Compounds

1805848-BLK1
1805848-BS1
1805848-BSD1
SC46117-29 (DUP042618)
SC46117-30 (DUP042618-2)
SC46117-34 (SB-02-2)
SC46117-35 (SB-02-5)

1805860

Volatile Organic Compounds

1805860-BLK1
1805860-BS1
1805860-BSD1
SC46117-01 (TB042518)
SC46117-02 (FB042518)
SC46117-04 (FB042618)

1805934

Volatile Organic Compounds

1805934-BLK1
1805934-BS1
1805934-BSD1
SC46117-03 (TB042618)

1805954

Volatile Organic Compounds

1805954-BLK1
1805954-BS1
1805954-BSD1
SC46117-03RE1 (TB042618)
SC46117-23RE1 (SB-03-1)

1806941

General Chemistry Parameters

1806941-DUP1
1806941-DUP2
SC46117-05 (SB-04-1)
SC46117-06 (SB-04-4)
SC46117-08 (SB-08-1)
SC46117-09 (SB-08-4)
SC46117-11 (SB-12-1)
SC46117-12 (SB-12-4)
SC46117-14 (SB-11-1)
SC46117-15 (SB-11-4)
SC46117-22 (SB-07-8)
SC46117-25 (SB-03-8)

1806965**Volatile Organic Compounds**

1806965-BLK1
1806965-BS1
1806965-BSD1
SC46117-05 (SB-04-1)
SC46117-06 (SB-04-4)
SC46117-08 (SB-08-1)
SC46117-09 (SB-08-4)
SC46117-11 (SB-12-1)
SC46117-12 (SB-12-4)
SC46117-14 (SB-11-1)
SC46117-15 (SB-11-4)
SC46117-22 (SB-07-8)
SC46117-25 (SB-03-8)

1806967**Volatile Organic Compounds**

1806967-BLK1
1806967-BS1
1806967-BSD1
SC46117-05RE1 (SB-04-1)

428588A**Subcontracted Analyses**

CA37730-BLK
CA37730-LCS
CA37730-LCSD
CA37730-MS
CA37730-MSD
SC46117-20 (SB-07-1)
SC46117-21 (SB-07-4)
SC46117-23 (SB-03-1)
SC46117-24 (SB-03-4)
SC46117-26 (SB-01-2)
SC46117-27 (SB-01-4)
SC46117-29 (DUP042618)
SC46117-30 (DUP042618-2)
SC46117-34 (SB-02-2)
SC46117-35 (SB-02-5)

428596A**Subcontracted Analyses**

CA37728-BLK
CA37728-LCS
CA37728-LCSD
CA37728-MS
CA37728-MSD
SC46117-02 (FB042518)
SC46117-04 (FB042618)

S817374**Volatile Organic Compounds**

S817374-CAL1

S817374-CAL2
S817374-CAL3
S817374-CAL4
S817374-CAL5
S817374-CAL6
S817374-CAL7
S817374-CAL8
S817374-CAL9
S817374-ICV1
S817374-LCV1
S817374-LCV2
S817374-LCV3
S817374-TUN1

S818269**Volatile Organic Compounds**

S818269-CAL1
S818269-CAL2
S818269-CAL3
S818269-CAL4
S818269-CAL5
S818269-CAL6
S818269-CAL7
S818269-CAL8
S818269-CAL9
S818269-ICV1
S818269-LCV1
S818269-TUN1

S818424**Volatile Organic Compounds**

S818424-CAL1
S818424-CAL2
S818424-CAL3
S818424-CAL4
S818424-CAL5
S818424-CAL6
S818424-CAL7
S818424-CAL8
S818424-CAL9
S818424-ICV1
S818424-LCV1
S818424-LCV2
S818424-TUN1

S818935**Volatile Organic Compounds**

S818935-CCV1
S818935-TUN1

S818936**Volatile Organic Compounds**

S818936-CCV1
S818936-TUN1

S818941*Volatile Organic Compounds*

S818941-CCV1

S818941-TUN1

S818970*Volatile Organic Compounds*

S818970-CCV1

S818970-TUN1

S818998*Volatile Organic Compounds*

S818998-CCV1

S818998-TUN1

S819255*Volatile Organic Compounds*

S819255-CAL1

S819255-CAL2

S819255-CAL3

S819255-CAL4

S819255-CAL5

S819255-CAL6

S819255-CAL7

S819255-CAL8

S819255-CAL9

S819255-ICV1

S819255-LCV1

S819255-LCV2

S819255-TUN1

S819522*Volatile Organic Compounds*

S819522-CCV1

S819522-TUN1

S819524*Volatile Organic Compounds*

S819524-CCV1

S819524-TUN1

Laboratory Report SC44789

Environmental Resources Management
99 East River Drive, 3rd Floor
East Hartford, CT 06108
Attn: Jason Fernet

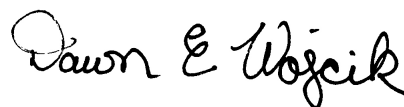
Project: Avery - Orangeburg, NY
Project #: 0438688

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 41 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC44789
Project: Avery - Orangeburg, NY
Project Number: 0438688

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC44789-01	Sump-PE-S	Soil	14-Mar-18 13:30	15-Mar-18 17:18
SC44789-02	Sump-PE-B	Soil	14-Mar-18 13:40	15-Mar-18 17:18
SC44789-03	Sump-PE-N	Soil	14-Mar-18 13:50	15-Mar-18 17:18
SC44789-04	Sump-PE-E	Soil	14-Mar-18 14:00	15-Mar-18 17:18

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1801068

Analyte quantified by quadratic equation type calibration.

1,2-Dibromo-3-chloropropane
Acetone
Bromoform
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

1803616-BLK1
1803616-BS1
1803616-BSD1
S816061-ICV1
S817681-CCV1
Sump-PE-B
Sump-PE-E
Sump-PE-N
Sump-PE-S

1803021

SW846 8260C

Calibration:

1803021

Analyte quantified by quadratic equation type calibration.

1,1,1-Trichloroethane
1,1,2-Trichlorotrifluoroethane (Freon 113)
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Butylbenzene
sec-Butylbenzene
Styrene
trans-1,3-Dichloropropene
Trichlorofluoromethane (Freon 11)

This affected the following samples:

S817374-ICV1

S816061-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Naphthalene (128%)

This affected the following samples:

1803616-BLK1
1803616-BS1
1803616-BSD1
S817681-CCV1
Sump-PE-B
Sump-PE-E
Sump-PE-N
Sump-PE-S

S817374-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Bromomethane (71%)

This affected the following samples:

1803569-BLK1
1803569-BS1
1803569-BSD1
S817679-CCV1
Sump-PE-B
Sump-PE-E
Sump-PE-S

SW846 8260C

Laboratory Control Samples:

1803616 BS/BSD

Carbon disulfide percent recoveries (134/132) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Sump-PE-B
Sump-PE-E
Sump-PE-N
Sump-PE-S

trans-1,4-Dichloro-2-butene percent recoveries (123/138) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Sump-PE-B
Sump-PE-E
Sump-PE-N
Sump-PE-S

Samples:

S817679-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (20.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (27.6%)

This affected the following samples:

1803569-BLK1
1803569-BS1
1803569-BSD1
Sump-PE-B
Sump-PE-E
Sump-PE-S

S817681-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Hexanone (MBK) (25.1%)
Carbon disulfide (37.1%)
Carbon tetrachloride (26.0%)
Ethyl ether (-29.6%)
Methylene chloride (24.7%)
Tert-Butanol / butyl alcohol (-26.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Bromoform (20.6%)
trans-1,4-Dichloro-2-butene (31.0%)

This affected the following samples:

1803616-BLK1
1803616-BS1
1803616-BSD1
Sump-PE-B
Sump-PE-E
Sump-PE-N
Sump-PE-S

SW846 8260C

Samples:

SC44789-01 *Sump-PE-S*

OR

Acetone

SC44789-01RE1 *Sump-PE-S*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC44789-01RE2 *Sump-PE-S*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC44789-02 *Sump-PE-B*

OR

Acetone

SC44789-02RE1 *Sump-PE-B*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC44789-04RE1 *Sump-PE-E*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client: Environmental Resources Management - Hartford, CT
Project: Avery - Orangeburg, NY / 0438688
Work Order: SC44789
Sample(s) received on: 3/15/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☒	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC44789-01

Client ID: Sump-PE-S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	3510	E	10.2	µg/kg	SW846 8260C
Acetone	OR		51.0	µg/kg	SW846 8260C
Ethylbenzene	1.32	J	5.10	µg/kg	SW846 8260C
m,p-Xylene	15.7		10.2	µg/kg	SW846 8260C
o-Xylene	7.25		5.10	µg/kg	SW846 8260C
Toluene	427	E	5.10	µg/kg	SW846 8260C

Lab ID: SC44789-01RE1

Client ID: Sump-PE-S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	3140	D	105	µg/kg	SW846 8260C
Acetone	2490	D	526	µg/kg	SW846 8260C
Ethylbenzene	182	D	52.6	µg/kg	SW846 8260C
m,p-Xylene	781	D	105	µg/kg	SW846 8260C
o-Xylene	313	D	52.6	µg/kg	SW846 8260C
Toluene	15000	D, E	52.6	µg/kg	SW846 8260C

Lab ID: SC44789-01RE2

Client ID: Sump-PE-S

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	3880	D	1050	µg/kg	SW846 8260C
Acetone	3540	J, D	5260	µg/kg	SW846 8260C
Ethylbenzene	158	J, D	526	µg/kg	SW846 8260C
m,p-Xylene	774	J, D	1050	µg/kg	SW846 8260C
o-Xylene	253	J, D	526	µg/kg	SW846 8260C
Toluene	14900	D	526	µg/kg	SW846 8260C

Lab ID: SC44789-02

Client ID: Sump-PE-B

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	2060	E	8.51	µg/kg	SW846 8260C
Acetone	OR		42.5	µg/kg	SW846 8260C
Ethylbenzene	17.7		4.25	µg/kg	SW846 8260C
m,p-Xylene	74.5		8.51	µg/kg	SW846 8260C
o-Xylene	28.8		4.25	µg/kg	SW846 8260C
Toluene	1960	E	4.25	µg/kg	SW846 8260C

Lab ID: SC44789-02RE1

Client ID: Sump-PE-B

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	1010	D	82.0	µg/kg	SW846 8260C
Acetone	259	D	205	µg/kg	SW846 8260C
Ethylbenzene	9.02	J, D	41.0	µg/kg	SW846 8260C
m,p-Xylene	57.4	J, D	82.0	µg/kg	SW846 8260C
o-Xylene	17.2	J, D	41.0	µg/kg	SW846 8260C
Toluene	1990	D	41.0	µg/kg	SW846 8260C

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Lab ID: SC44789-03**Client ID:** Sump-PE-N

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Toluene	5.45		4.19	µg/kg	SW846 8260C

Lab ID: SC44789-04**Client ID:** Sump-PE-E

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	844	E	8.96	µg/kg	SW846 8260C
Acetone	127		44.8	µg/kg	SW846 8260C
m,p-Xylene	2.55	J	8.96	µg/kg	SW846 8260C
o-Xylene	1.31	J	4.48	µg/kg	SW846 8260C
Toluene	144		4.48	µg/kg	SW846 8260C

Lab ID: SC44789-04RE1**Client ID:** Sump-PE-E

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
2-Butanone (MEK)	474	D	96.2	µg/kg	SW846 8260C
m,p-Xylene	60.2	J, D	96.2	µg/kg	SW846 8260C
o-Xylene	14.9	J, D	48.1	µg/kg	SW846 8260C
Toluene	834	D	48.1	µg/kg	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

VO

1803613

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.43 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.10	U	µg/kg dry	5.10	2.58	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
67-64-1	Acetone	OR		µg/kg dry	51.0	20.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.10	U	µg/kg dry	5.10	4.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.10	U	µg/kg dry	5.10	1.35	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.10	U	µg/kg dry	5.10	1.36	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.10	U	µg/kg dry	5.10	2.57	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.10	U	µg/kg dry	5.10	3.40	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.10	U	µg/kg dry	5.10	4.86	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.2	U	µg/kg dry	10.2	4.60	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	3,510	E	µg/kg dry	10.2	9.11	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.10	U	µg/kg dry	5.10	1.46	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.10	U	µg/kg dry	5.10	0.93	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.10	U	µg/kg dry	5.10	1.14	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.2	U	µg/kg dry	10.2	3.26	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.10	U	µg/kg dry	5.10	4.17	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.10	U	µg/kg dry	5.10	1.60	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.2	U	µg/kg dry	10.2	2.83	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.10	U	µg/kg dry	5.10	2.74	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.2	U	µg/kg dry	10.2	2.11	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.10	U	µg/kg dry	5.10	1.27	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.10	U	µg/kg dry	5.10	1.20	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.2	U	µg/kg dry	10.2	7.37	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.10	U	µg/kg dry	5.10	3.46	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.10	U	µg/kg dry	5.10	3.42	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.10	U	µg/kg dry	5.10	2.65	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.10	U	µg/kg dry	5.10	1.33	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.10	U	µg/kg dry	5.10	1.11	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.10	U	µg/kg dry	5.10	1.51	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.2	U	µg/kg dry	10.2	1.93	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.10	U	µg/kg dry	5.10	1.34	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.10	U	µg/kg dry	5.10	1.82	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.10	U	µg/kg dry	5.10	2.67	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.10	U	µg/kg dry	5.10	1.89	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.10	U	µg/kg dry	5.10	2.70	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.10	U	µg/kg dry	5.10	2.67	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.10	U	µg/kg dry	5.10	2.64	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.10	U	µg/kg dry	5.10	2.41	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.10	U	µg/kg dry	5.10	1.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.10	U	µg/kg dry	5.10	3.07	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.10	U	µg/kg dry	5.10	2.68	1	"	"	"	"	"	X

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Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 6.43 g

100-41-4	Ethylbenzene	1.32	J	µg/kg dry	5.10	0.73	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
87-68-3	Hexachlorobutadiene	< 5.10	U	µg/kg dry	5.10	2.56	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.2	U	µg/kg dry	10.2	6.25	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.10	U	µg/kg dry	5.10	1.00	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.10	U	µg/kg dry	5.10	1.10	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.10	U	µg/kg dry	5.10	1.88	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.2	U	µg/kg dry	10.2	2.62	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.2	U	µg/kg dry	10.2	2.02	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.10	U	µg/kg dry	5.10	3.03	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.10	U	µg/kg dry	5.10	0.83	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.10	U	µg/kg dry	5.10	1.02	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.10	U	µg/kg dry	5.10	4.33	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.10	U	µg/kg dry	5.10	4.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.10	U	µg/kg dry	5.10	1.74	1	"	"	"	"	"	X
108-88-3	Toluene	427	E	µg/kg dry	5.10	1.65	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.10	U	µg/kg dry	5.10	1.79	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.10	U	µg/kg dry	5.10	3.76	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.10	U	µg/kg dry	5.10	1.60	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.10	U	µg/kg dry	5.10	1.69	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.10	U	µg/kg dry	5.10	3.70	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.10	U	µg/kg dry	5.10	1.39	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.10	U	µg/kg dry	5.10	2.75	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.10	U	µg/kg dry	5.10	3.82	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.10	U	µg/kg dry	5.10	1.24	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.10	U	µg/kg dry	5.10	0.88	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.10	U	µg/kg dry	5.10	1.72	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	15.7		µg/kg dry	10.2	0.92	1	"	"	"	"	"	X
95-47-6	o-Xylene	7.25		µg/kg dry	5.10	1.43	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.2	U	µg/kg dry	10.2	8.03	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.10	U	µg/kg dry	5.10	4.62	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.10	U	µg/kg dry	5.10	1.70	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.10	U	µg/kg dry	5.10	2.75	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.10	U	µg/kg dry	5.10	0.95	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 51.0	U	µg/kg dry	51.0	33.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 102	U	µg/kg dry	102	88.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.5	U	µg/kg dry	25.5	11.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1020	U	µg/kg dry	1020	190	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	89			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %		"	"	"	"	"	"	

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Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 18.59 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 52.6	U, D	µg/kg dry	52.6	26.7	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
67-64-1	Acetone	2,490	D	µg/kg dry	526	210	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 52.6	U, D	µg/kg dry	52.6	50.6	50	"	"	"	"	"	X
71-43-2	Benzene	< 52.6	U, D	µg/kg dry	52.6	13.9	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 52.6	U, D	µg/kg dry	52.6	14.1	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 52.6	U, D	µg/kg dry	52.6	26.6	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 52.6	U, D	µg/kg dry	52.6	35.1	50	"	"	"	"	"	X
75-25-2	Bromoform	< 52.6	U, D	µg/kg dry	52.6	50.2	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 105	U, D	µg/kg dry	105	47.5	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	3,140	D	µg/kg dry	105	94.1	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 52.6	U, D	µg/kg dry	52.6	15.1	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 52.6	U, D	µg/kg dry	52.6	9.58	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 52.6	U, D	µg/kg dry	52.6	11.8	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 105	U, D	µg/kg dry	105	33.7	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 52.6	U, D	µg/kg dry	52.6	43.1	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 52.6	U, D	µg/kg dry	52.6	16.5	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 105	U, D	µg/kg dry	105	29.2	50	"	"	"	"	"	X
67-66-3	Chloroform	< 52.6	U, D	µg/kg dry	52.6	28.3	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 105	U, D	µg/kg dry	105	21.7	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 52.6	U, D	µg/kg dry	52.6	13.1	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 52.6	U, D	µg/kg dry	52.6	12.4	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 105	U, D	µg/kg dry	105	76.1	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 52.6	U, D	µg/kg dry	52.6	35.7	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 52.6	U, D	µg/kg dry	52.6	35.3	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 52.6	U, D	µg/kg dry	52.6	27.4	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	13.7	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	11.4	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	15.6	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 105	U, D	µg/kg dry	105	19.9	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 52.6	U, D	µg/kg dry	52.6	13.8	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 52.6	U, D	µg/kg dry	52.6	18.8	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 52.6	U, D	µg/kg dry	52.6	27.5	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 52.6	U, D	µg/kg dry	52.6	19.5	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 52.6	U, D	µg/kg dry	52.6	27.9	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 52.6	U, D	µg/kg dry	52.6	27.6	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 52.6	U, D	µg/kg dry	52.6	27.3	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 52.6	U, D	µg/kg dry	52.6	24.8	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 52.6	U, D	µg/kg dry	52.6	16.9	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 52.6	U, D	µg/kg dry	52.6	31.7	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 52.6	U, D	µg/kg dry	52.6	27.6	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	182	D	µg/kg dry	52.6	7.58	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 52.6	U, D	µg/kg dry	52.6	26.4	50	"	"	"	"	"	X

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Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 18.59 g

591-78-6	2-Hexanone (MBK)	< 105	U, D	µg/kg dry	105	64.6	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
98-82-8	Isopropylbenzene	< 52.6	U, D	µg/kg dry	52.6	10.4	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 52.6	U, D	µg/kg dry	52.6	11.3	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 52.6	U, D	µg/kg dry	52.6	19.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 105	U, D	µg/kg dry	105	27.1	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 105	U, D	µg/kg dry	105	20.9	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 52.6	U, D	µg/kg dry	52.6	31.3	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 52.6	U, D	µg/kg dry	52.6	8.53	50	"	"	"	"	"	X
100-42-5	Styrene	< 52.6	U, D	µg/kg dry	52.6	10.6	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 52.6	U, D	µg/kg dry	52.6	44.7	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 52.6	U, D	µg/kg dry	52.6	44.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 52.6	U, D	µg/kg dry	52.6	18.0	50	"	"	"	"	"	X
108-88-3	Toluene	15,000	D, E	µg/kg dry	52.6	17.1	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	18.5	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	38.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 52.6	U, D	µg/kg dry	52.6	16.5	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 52.6	U, D	µg/kg dry	52.6	17.5	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 52.6	U, D	µg/kg dry	52.6	38.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 52.6	U, D	µg/kg dry	52.6	14.4	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 52.6	U, D	µg/kg dry	52.6	28.4	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 52.6	U, D	µg/kg dry	52.6	39.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 52.6	U, D	µg/kg dry	52.6	12.8	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 52.6	U, D	µg/kg dry	52.6	9.05	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 52.6	U, D	µg/kg dry	52.6	17.8	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	781	D	µg/kg dry	105	9.47	50	"	"	"	"	"	X
95-47-6	o-Xylene	313	D	µg/kg dry	52.6	14.7	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 105	U, D	µg/kg dry	105	83.0	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 52.6	U, D	µg/kg dry	52.6	47.7	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 52.6	U, D	µg/kg dry	52.6	17.6	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 52.6	U, D	µg/kg dry	52.6	28.4	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 52.6	U, D	µg/kg dry	52.6	9.79	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 526	U, D	µg/kg dry	526	344	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1050	U, D	µg/kg dry	1050	914	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 263	U, D	µg/kg dry	263	120	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10500	U, D	µg/kg dry	10500	1960	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96			70-130 %		"	"	"	"	"	"	

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

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Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 18.59 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 526	U, D	µg/kg dry	526	267	500	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
67-64-1	Acetone	3,540	J, D	µg/kg dry	5260	2100	500	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 526	U, D	µg/kg dry	526	506	500	"	"	"	"	"	X
71-43-2	Benzene	< 526	U, D	µg/kg dry	526	139	500	"	"	"	"	"	X
108-86-1	Bromobenzene	< 526	U, D	µg/kg dry	526	141	500	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 526	U, D	µg/kg dry	526	266	500	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 526	U, D	µg/kg dry	526	351	500	"	"	"	"	"	X
75-25-2	Bromoform	< 526	U, D	µg/kg dry	526	502	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 1050	U, D	µg/kg dry	1050	475	500	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	3,880	D	µg/kg dry	1050	941	500	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 526	U, D	µg/kg dry	526	151	500	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 526	U, D	µg/kg dry	526	95.8	500	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 526	U, D	µg/kg dry	526	118	500	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1050	U, D	µg/kg dry	1050	337	500	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 526	U, D	µg/kg dry	526	431	500	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 526	U, D	µg/kg dry	526	165	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 1050	U, D	µg/kg dry	1050	292	500	"	"	"	"	"	X
67-66-3	Chloroform	< 526	U, D	µg/kg dry	526	283	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 1050	U, D	µg/kg dry	1050	217	500	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 526	U, D	µg/kg dry	526	131	500	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 526	U, D	µg/kg dry	526	124	500	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1050	U, D	µg/kg dry	1050	761	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 526	U, D	µg/kg dry	526	357	500	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 526	U, D	µg/kg dry	526	353	500	"	"	"	"	"	X
74-95-3	Dibromomethane	< 526	U, D	µg/kg dry	526	274	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 526	U, D	µg/kg dry	526	137	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 526	U, D	µg/kg dry	526	114	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 526	U, D	µg/kg dry	526	156	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1050	U, D	µg/kg dry	1050	199	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 526	U, D	µg/kg dry	526	138	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 526	U, D	µg/kg dry	526	188	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 526	U, D	µg/kg dry	526	275	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 526	U, D	µg/kg dry	526	195	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 526	U, D	µg/kg dry	526	279	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 526	U, D	µg/kg dry	526	276	500	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 526	U, D	µg/kg dry	526	273	500	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 526	U, D	µg/kg dry	526	248	500	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 526	U, D	µg/kg dry	526	169	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 526	U, D	µg/kg dry	526	317	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 526	U, D	µg/kg dry	526	276	500	"	"	"	"	"	X
100-41-4	Ethylbenzene	158	J, D	µg/kg dry	526	75.8	500	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 526	U, D	µg/kg dry	526	264	500	"	"	"	"	"	X

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Sample Identification

Sump-PE-S

SC44789-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 18.59 g

591-78-6	2-Hexanone (MBK)	< 1050	U, D	µg/kg dry	1050	646	500	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
98-82-8	Isopropylbenzene	< 526	U, D	µg/kg dry	526	104	500	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 526	U, D	µg/kg dry	526	113	500	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 526	U, D	µg/kg dry	526	194	500	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1050	U, D	µg/kg dry	1050	271	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1050	U, D	µg/kg dry	1050	209	500	"	"	"	"	"	X
91-20-3	Naphthalene	< 526	U, D	µg/kg dry	526	313	500	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 526	U, D	µg/kg dry	526	85.3	500	"	"	"	"	"	X
100-42-5	Styrene	< 526	U, D	µg/kg dry	526	106	500	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 526	U, D	µg/kg dry	526	447	500	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 526	U, D	µg/kg dry	526	445	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 526	U, D	µg/kg dry	526	180	500	"	"	"	"	"	X
108-88-3	Toluene	14,900	D	µg/kg dry	526	171	500	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 526	U, D	µg/kg dry	526	185	500	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 526	U, D	µg/kg dry	526	388	500	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 526	U, D	µg/kg dry	526	165	500	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 526	U, D	µg/kg dry	526	175	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 526	U, D	µg/kg dry	526	382	500	"	"	"	"	"	X
79-01-6	Trichloroethene	< 526	U, D	µg/kg dry	526	144	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 526	U, D	µg/kg dry	526	284	500	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 526	U, D	µg/kg dry	526	395	500	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 526	U, D	µg/kg dry	526	128	500	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 526	U, D	µg/kg dry	526	90.5	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 526	U, D	µg/kg dry	526	178	500	"	"	"	"	"	X
179601-23-1	m,p-Xylene	774	J, D	µg/kg dry	1050	94.7	500	"	"	"	"	"	X
95-47-6	o-Xylene	253	J, D	µg/kg dry	526	147	500	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1050	U, D	µg/kg dry	1050	830	500	"	"	"	"	"	
60-29-7	Ethyl ether	< 526	U, D	µg/kg dry	526	477	500	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 526	U, D	µg/kg dry	526	176	500	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 526	U, D	µg/kg dry	526	284	500	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 526	U, D	µg/kg dry	526	97.9	500	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 5260	U, D	µg/kg dry	5260	3440	500	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 10500	U, D	µg/kg dry	10500	9140	500	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 2630	U, D	µg/kg dry	2630	1200	500	"	"	"	"	"	X
64-17-5	Ethanol	< 105000	U, D	µg/kg dry	105000	19600	500	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	98			70-130 %		"	"	"	"	"	"	

General Chemistry Parameters

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<u>Sample Identification</u>		<u>Client Project #</u>					<u>Matrix</u>	<u>Collection Date/Time</u>			<u>Received</u>		
Sump-PE-S		0438688					Soil	14-Mar-18 13:30			15-Mar-18		
SC44789-01													
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.0		%			1	SM2540 G (11) Mod.	15-Mar-18	15-Mar-18	VO	1803596	

Sample Identification

Sump-PE-B

SC44789-02

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:40

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			VO	1803613	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 8.15 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.25	U	µg/kg dry	4.25	2.16	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
67-64-1	Acetone	OR		µg/kg dry	42.5	17.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.25	U	µg/kg dry	4.25	4.09	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.25	U	µg/kg dry	4.25	1.13	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.25	U	µg/kg dry	4.25	1.14	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.25	U	µg/kg dry	4.25	2.15	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.25	U	µg/kg dry	4.25	2.84	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.25	U	µg/kg dry	4.25	4.06	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.51	U	µg/kg dry	8.51	3.84	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	2,060	E	µg/kg dry	8.51	7.60	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.25	U	µg/kg dry	4.25	1.22	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.25	U	µg/kg dry	4.25	0.77	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.25	U	µg/kg dry	4.25	0.95	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.51	U	µg/kg dry	8.51	2.72	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.25	U	µg/kg dry	4.25	3.48	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.25	U	µg/kg dry	4.25	1.33	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.51	U	µg/kg dry	8.51	2.36	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.25	U	µg/kg dry	4.25	2.28	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.51	U	µg/kg dry	8.51	1.76	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.25	U	µg/kg dry	4.25	1.06	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.25	U	µg/kg dry	4.25	1.00	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.51	U	µg/kg dry	8.51	6.15	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.25	U	µg/kg dry	4.25	2.88	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.25	U	µg/kg dry	4.25	2.85	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.25	U	µg/kg dry	4.25	2.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.25	U	µg/kg dry	4.25	1.11	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.25	U	µg/kg dry	4.25	0.92	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.25	U	µg/kg dry	4.25	1.26	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.51	U	µg/kg dry	8.51	1.61	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.25	U	µg/kg dry	4.25	1.11	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.25	U	µg/kg dry	4.25	1.52	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.25	U	µg/kg dry	4.25	2.22	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.25	U	µg/kg dry	4.25	1.58	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.25	U	µg/kg dry	4.25	2.25	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.25	U	µg/kg dry	4.25	2.23	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.25	U	µg/kg dry	4.25	2.20	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.25	U	µg/kg dry	4.25	2.01	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.25	U	µg/kg dry	4.25	1.37	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.25	U	µg/kg dry	4.25	2.56	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.25	U	µg/kg dry	4.25	2.23	1	"	"	"	"	"	X

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Sample Identification

Sump-PE-B

SC44789-02

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:40

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 8.15 g

100-41-4	Ethylbenzene	17.7		µg/kg dry	4.25	0.61	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
87-68-3	Hexachlorobutadiene	< 4.25	U	µg/kg dry	4.25	2.14	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.51	U	µg/kg dry	8.51	5.22	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.25	U	µg/kg dry	4.25	0.84	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.25	U	µg/kg dry	4.25	0.91	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.25	U	µg/kg dry	4.25	1.57	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.51	U	µg/kg dry	8.51	2.19	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.51	U	µg/kg dry	8.51	1.69	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.25	U	µg/kg dry	4.25	2.53	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.25	U	µg/kg dry	4.25	0.69	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.25	U	µg/kg dry	4.25	0.85	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.25	U	µg/kg dry	4.25	3.62	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.25	U	µg/kg dry	4.25	3.60	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.25	U	µg/kg dry	4.25	1.45	1	"	"	"	"	"	X
108-88-3	Toluene	1,960	E	µg/kg dry	4.25	1.38	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.25	U	µg/kg dry	4.25	1.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.25	U	µg/kg dry	4.25	3.13	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.25	U	µg/kg dry	4.25	1.34	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.25	U	µg/kg dry	4.25	1.41	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.25	U	µg/kg dry	4.25	3.08	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.25	U	µg/kg dry	4.25	1.16	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.25	U	µg/kg dry	4.25	2.29	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.25	U	µg/kg dry	4.25	3.19	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.25	U	µg/kg dry	4.25	1.03	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.25	U	µg/kg dry	4.25	0.73	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.25	U	µg/kg dry	4.25	1.44	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	74.5		µg/kg dry	8.51	0.77	1	"	"	"	"	"	X
95-47-6	o-Xylene	28.8		µg/kg dry	4.25	1.19	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.51	U	µg/kg dry	8.51	6.70	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.25	U	µg/kg dry	4.25	3.85	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.25	U	µg/kg dry	4.25	1.42	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.25	U	µg/kg dry	4.25	2.29	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.25	U	µg/kg dry	4.25	0.79	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 42.5	U	µg/kg dry	42.5	27.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 85.1	U	µg/kg dry	85.1	73.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 21.3	U	µg/kg dry	21.3	9.71	1	"	"	"	"	"	X
64-17-5	Ethanol	< 851	U	µg/kg dry	851	159	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	116			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111			70-130 %		"	"	"	"	"	"	

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Sample Identification

Sump-PE-B

SC44789-02

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:40

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 25.57 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 41.0	U, D	µg/kg dry	41.0	20.8	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
67-64-1	Acetone	259	D	µg/kg dry	205	164	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 41.0	U, D	µg/kg dry	41.0	39.4	50	"	"	"	"	"	X
71-43-2	Benzene	< 41.0	U, D	µg/kg dry	41.0	10.9	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 41.0	U, D	µg/kg dry	41.0	10.9	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 41.0	U, D	µg/kg dry	41.0	20.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 41.0	U, D	µg/kg dry	41.0	27.3	50	"	"	"	"	"	X
75-25-2	Bromoform	< 41.0	U, D	µg/kg dry	41.0	39.1	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 82.0	U, D	µg/kg dry	82.0	37.0	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	1,010	D	µg/kg dry	82.0	73.3	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 41.0	U, D	µg/kg dry	41.0	11.7	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 41.0	U, D	µg/kg dry	41.0	7.46	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 41.0	U, D	µg/kg dry	41.0	9.18	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 82.0	U, D	µg/kg dry	82.0	26.2	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 41.0	U, D	µg/kg dry	41.0	33.5	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 41.0	U, D	µg/kg dry	41.0	12.8	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 82.0	U, D	µg/kg dry	82.0	22.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 41.0	U, D	µg/kg dry	41.0	22.0	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 82.0	U, D	µg/kg dry	82.0	16.9	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 41.0	U, D	µg/kg dry	41.0	10.2	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 41.0	U, D	µg/kg dry	41.0	9.63	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 82.0	U, D	µg/kg dry	82.0	59.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 41.0	U, D	µg/kg dry	41.0	27.8	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 41.0	U, D	µg/kg dry	41.0	27.5	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 41.0	U, D	µg/kg dry	41.0	21.3	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	10.7	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	8.90	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	12.1	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 82.0	U, D	µg/kg dry	82.0	15.5	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 41.0	U, D	µg/kg dry	41.0	10.7	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 41.0	U, D	µg/kg dry	41.0	14.7	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 41.0	U, D	µg/kg dry	41.0	21.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 41.0	U, D	µg/kg dry	41.0	15.2	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 41.0	U, D	µg/kg dry	41.0	21.7	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 41.0	U, D	µg/kg dry	41.0	21.5	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 41.0	U, D	µg/kg dry	41.0	21.2	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 41.0	U, D	µg/kg dry	41.0	19.3	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 41.0	U, D	µg/kg dry	41.0	13.2	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 41.0	U, D	µg/kg dry	41.0	24.7	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 41.0	U, D	µg/kg dry	41.0	21.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	9.02	J, D	µg/kg dry	41.0	5.90	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 41.0	U, D	µg/kg dry	41.0	20.6	50	"	"	"	"	"	X

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Sample Identification

Sump-PE-B

SC44789-02

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:40

Received

15-Mar-18

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 25.57 g

591-78-6	2-Hexanone (MBK)	< 82.0	U, D	µg/kg dry	82.0	50.3	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
98-82-8	Isopropylbenzene	< 41.0	U, D	µg/kg dry	41.0	8.08	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 41.0	U, D	µg/kg dry	41.0	8.81	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 41.0	U, D	µg/kg dry	41.0	15.1	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 82.0	U, D	µg/kg dry	82.0	21.1	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 82.0	U, D	µg/kg dry	82.0	16.3	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 41.0	U, D	µg/kg dry	41.0	24.4	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 41.0	U, D	µg/kg dry	41.0	6.64	50	"	"	"	"	"	X
100-42-5	Styrene	< 41.0	U, D	µg/kg dry	41.0	8.24	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 41.0	U, D	µg/kg dry	41.0	34.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 41.0	U, D	µg/kg dry	41.0	34.7	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 41.0	U, D	µg/kg dry	41.0	14.0	50	"	"	"	"	"	X
108-88-3	Toluene	1,990	D	µg/kg dry	41.0	13.3	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	14.4	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	30.2	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 41.0	U, D	µg/kg dry	41.0	12.9	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 41.0	U, D	µg/kg dry	41.0	13.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 41.0	U, D	µg/kg dry	41.0	29.7	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 41.0	U, D	µg/kg dry	41.0	11.2	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 41.0	U, D	µg/kg dry	41.0	22.1	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 41.0	U, D	µg/kg dry	41.0	30.7	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 41.0	U, D	µg/kg dry	41.0	9.96	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 41.0	U, D	µg/kg dry	41.0	7.05	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 41.0	U, D	µg/kg dry	41.0	13.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	57.4	J, D	µg/kg dry	82.0	7.38	50	"	"	"	"	"	X
95-47-6	o-Xylene	17.2	J, D	µg/kg dry	41.0	11.5	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 82.0	U, D	µg/kg dry	82.0	64.6	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 41.0	U, D	µg/kg dry	41.0	37.1	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 41.0	U, D	µg/kg dry	41.0	13.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 41.0	U, D	µg/kg dry	41.0	22.1	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 41.0	U, D	µg/kg dry	41.0	7.62	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 410	U, D	µg/kg dry	410	268	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 820	U, D	µg/kg dry	820	712	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 205	U, D	µg/kg dry	205	93.5	50	"	"	"	"	"	X
64-17-5	Ethanol	< 8200	U, D	µg/kg dry	8200	1530	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	102		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	104		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	96		70-130 %		"	"	"	"	"

General Chemistry Parameters

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<u>Sample Identification</u>				<u>Client Project #</u>			<u>Matrix</u>		<u>Collection Date/Time</u>		<u>Received</u>		
Sump-PE-B				0438688			Soil		14-Mar-18 13:40		15-Mar-18		
SC44789-02													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters													
	% Solids	87.2		%			1	SM2540 G (11) Mod.	15-Mar-18	15-Mar-18	VO	1803596	

Sample Identification

Sump-PE-N

SC44789-03

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:50

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

VO

1803613

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 8.52 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.19	U	µg/kg dry	4.19	2.12	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
67-64-1	Acetone	< 41.9	U	µg/kg dry	41.9	16.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.19	U	µg/kg dry	4.19	4.02	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.19	U	µg/kg dry	4.19	1.11	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.19	U	µg/kg dry	4.19	1.12	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.19	U	µg/kg dry	4.19	2.11	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.19	U	µg/kg dry	4.19	2.79	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.19	U	µg/kg dry	4.19	3.99	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.37	U	µg/kg dry	8.37	3.78	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 8.37	U	µg/kg dry	8.37	7.48	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.19	U	µg/kg dry	4.19	1.20	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.19	U	µg/kg dry	4.19	0.76	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.19	U	µg/kg dry	4.19	0.94	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.37	U	µg/kg dry	8.37	2.68	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.19	U	µg/kg dry	4.19	3.42	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.19	U	µg/kg dry	4.19	1.31	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.37	U	µg/kg dry	8.37	2.32	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.19	U	µg/kg dry	4.19	2.25	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.37	U	µg/kg dry	8.37	1.73	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.19	U	µg/kg dry	4.19	1.04	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.19	U	µg/kg dry	4.19	0.98	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.37	U	µg/kg dry	8.37	6.05	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.19	U	µg/kg dry	4.19	2.84	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.19	U	µg/kg dry	4.19	2.81	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.19	U	µg/kg dry	4.19	2.18	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.19	U	µg/kg dry	4.19	1.09	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.19	U	µg/kg dry	4.19	0.91	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.19	U	µg/kg dry	4.19	1.24	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.37	U	µg/kg dry	8.37	1.59	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.19	U	µg/kg dry	4.19	1.10	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.19	U	µg/kg dry	4.19	1.50	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.19	U	µg/kg dry	4.19	2.19	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.19	U	µg/kg dry	4.19	1.55	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.19	U	µg/kg dry	4.19	2.22	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.19	U	µg/kg dry	4.19	2.19	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.19	U	µg/kg dry	4.19	2.17	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.19	U	µg/kg dry	4.19	1.98	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.19	U	µg/kg dry	4.19	1.35	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.19	U	µg/kg dry	4.19	2.52	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.19	U	µg/kg dry	4.19	2.20	1	"	"	"	"	"	X

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Sample Identification

Sump-PE-N

SC44789-03

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:50

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Initial weight: 8.52 g													
100-41-4	Ethylbenzene	< 4.19	U	µg/kg dry	4.19	0.60	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
87-68-3	Hexachlorobutadiene	< 4.19	U	µg/kg dry	4.19	2.10	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.37	U	µg/kg dry	8.37	5.14	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.19	U	µg/kg dry	4.19	0.82	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.19	U	µg/kg dry	4.19	0.90	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.19	U	µg/kg dry	4.19	1.54	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.37	U	µg/kg dry	8.37	2.15	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.37	U	µg/kg dry	8.37	1.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.19	U	µg/kg dry	4.19	2.49	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.19	U	µg/kg dry	4.19	0.68	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.19	U	µg/kg dry	4.19	0.84	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.19	U	µg/kg dry	4.19	3.56	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.19	U	µg/kg dry	4.19	3.54	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.19	U	µg/kg dry	4.19	1.43	1	"	"	"	"	"	X
108-88-3	Toluene	5.45		µg/kg dry	4.19	1.36	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.19	U	µg/kg dry	4.19	1.47	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.19	U	µg/kg dry	4.19	3.08	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.19	U	µg/kg dry	4.19	1.31	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.19	U	µg/kg dry	4.19	1.39	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.19	U	µg/kg dry	4.19	3.03	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.19	U	µg/kg dry	4.19	1.14	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.19	U	µg/kg dry	4.19	2.26	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.19	U	µg/kg dry	4.19	3.14	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.19	U	µg/kg dry	4.19	1.02	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.19	U	µg/kg dry	4.19	0.72	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.19	U	µg/kg dry	4.19	1.41	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.37	U	µg/kg dry	8.37	0.75	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.19	U	µg/kg dry	4.19	1.17	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.37	U	µg/kg dry	8.37	6.60	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.19	U	µg/kg dry	4.19	3.79	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.19	U	µg/kg dry	4.19	1.40	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.19	U	µg/kg dry	4.19	2.26	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.19	U	µg/kg dry	4.19	0.78	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 41.9	U	µg/kg dry	41.9	27.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 83.7	U	µg/kg dry	83.7	72.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 20.9	U	µg/kg dry	20.9	9.55	1	"	"	"	"	"	X
64-17-5	Ethanol	< 837	U	µg/kg dry	837	156	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	121			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

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<u>Sample Identification</u>		<u>Client Project #</u>				<u>Matrix</u>	<u>Collection Date/Time</u>			<u>Received</u>			
Sump-PE-N		0438688				Soil	14-Mar-18 13:50			15-Mar-18			
SC44789-03													
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	86.4		%			1	SM2540 G (11) Mod.	15-Mar-18	15-Mar-18	VO	1803596	

Sample Identification

Sump-PE-E

SC44789-04

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 14:00

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			VO	1803613	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 7.25 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.48	U	µg/kg dry	4.48	2.27	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
67-64-1	Acetone	127		µg/kg dry	44.8	17.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.48	U	µg/kg dry	4.48	4.30	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.48	U	µg/kg dry	4.48	1.19	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.48	U	µg/kg dry	4.48	1.20	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.48	U	µg/kg dry	4.48	2.26	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.48	U	µg/kg dry	4.48	2.99	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.48	U	µg/kg dry	4.48	4.27	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.96	U	µg/kg dry	8.96	4.04	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	844	E	µg/kg dry	8.96	8.01	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.48	U	µg/kg dry	4.48	1.28	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.48	U	µg/kg dry	4.48	0.81	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.48	U	µg/kg dry	4.48	1.00	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.96	U	µg/kg dry	8.96	2.87	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.48	U	µg/kg dry	4.48	3.66	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.48	U	µg/kg dry	4.48	1.40	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.96	U	µg/kg dry	8.96	2.49	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.48	U	µg/kg dry	4.48	2.40	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.96	U	µg/kg dry	8.96	1.85	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.48	U	µg/kg dry	4.48	1.11	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.48	U	µg/kg dry	4.48	1.05	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.96	U	µg/kg dry	8.96	6.47	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.48	U	µg/kg dry	4.48	3.04	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.48	U	µg/kg dry	4.48	3.00	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.48	U	µg/kg dry	4.48	2.33	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.48	U	µg/kg dry	4.48	1.16	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.48	U	µg/kg dry	4.48	0.97	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.48	U	µg/kg dry	4.48	1.33	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.96	U	µg/kg dry	8.96	1.70	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.48	U	µg/kg dry	4.48	1.17	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.48	U	µg/kg dry	4.48	1.60	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.48	U	µg/kg dry	4.48	2.34	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.48	U	µg/kg dry	4.48	1.66	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.48	U	µg/kg dry	4.48	2.37	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.48	U	µg/kg dry	4.48	2.35	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.48	U	µg/kg dry	4.48	2.32	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.48	U	µg/kg dry	4.48	2.11	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.48	U	µg/kg dry	4.48	1.44	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.48	U	µg/kg dry	4.48	2.70	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.48	U	µg/kg dry	4.48	2.35	1	"	"	"	"	"	X

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Sample Identification

Sump-PE-E

SC44789-04

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 14:00

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 7.25 g

100-41-4	Ethylbenzene	< 4.48	U	µg/kg dry	4.48	0.64	1	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803616	X
87-68-3	Hexachlorobutadiene	< 4.48	U	µg/kg dry	4.48	2.25	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.96	U	µg/kg dry	8.96	5.49	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.48	U	µg/kg dry	4.48	0.88	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.48	U	µg/kg dry	4.48	0.96	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.48	U	µg/kg dry	4.48	1.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.96	U	µg/kg dry	8.96	2.30	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.96	U	µg/kg dry	8.96	1.78	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.48	U	µg/kg dry	4.48	2.66	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.48	U	µg/kg dry	4.48	0.73	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.48	U	µg/kg dry	4.48	0.90	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.48	U	µg/kg dry	4.48	3.81	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.48	U	µg/kg dry	4.48	3.79	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.48	U	µg/kg dry	4.48	1.53	1	"	"	"	"	"	X
108-88-3	Toluene	144		µg/kg dry	4.48	1.45	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.48	U	µg/kg dry	4.48	1.57	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.48	U	µg/kg dry	4.48	3.30	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.48	U	µg/kg dry	4.48	1.41	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 4.48	U	µg/kg dry	4.48	1.49	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.48	U	µg/kg dry	4.48	3.25	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.48	U	µg/kg dry	4.48	1.22	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.48	U	µg/kg dry	4.48	2.41	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.48	U	µg/kg dry	4.48	3.36	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.48	U	µg/kg dry	4.48	1.09	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.48	U	µg/kg dry	4.48	0.77	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.48	U	µg/kg dry	4.48	1.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	2.55	J	µg/kg dry	8.96	0.81	1	"	"	"	"	"	X
95-47-6	o-Xylene	1.31	J	µg/kg dry	4.48	1.25	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.96	U	µg/kg dry	8.96	7.06	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.48	U	µg/kg dry	4.48	4.06	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.48	U	µg/kg dry	4.48	1.50	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 4.48	U	µg/kg dry	4.48	2.41	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 4.48	U	µg/kg dry	4.48	0.83	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 44.8	U	µg/kg dry	44.8	29.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 89.6	U	µg/kg dry	89.6	77.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 22.4	U	µg/kg dry	22.4	10.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 896	U	µg/kg dry	896	167	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	112			70-130 %		"	"	"	"	"	"	

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Sample Identification

Sump-PE-E

SC44789-04

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 14:00

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 20.02 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 48.1	U, D	µg/kg dry	48.1	24.4	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
67-64-1	Acetone	< 481	U, D	µg/kg dry	481	192	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 48.1	U, D	µg/kg dry	48.1	46.2	50	"	"	"	"	"	X
71-43-2	Benzene	< 48.1	U, D	µg/kg dry	48.1	12.8	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 48.1	U, D	µg/kg dry	48.1	12.8	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 48.1	U, D	µg/kg dry	48.1	24.3	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 48.1	U, D	µg/kg dry	48.1	32.1	50	"	"	"	"	"	X
75-25-2	Bromoform	< 48.1	U, D	µg/kg dry	48.1	45.9	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 96.2	U, D	µg/kg dry	96.2	43.5	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	474	D	µg/kg dry	96.2	86.0	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 48.1	U, D	µg/kg dry	48.1	13.8	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 48.1	U, D	µg/kg dry	48.1	8.76	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 48.1	U, D	µg/kg dry	48.1	10.8	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 96.2	U, D	µg/kg dry	96.2	30.8	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 48.1	U, D	µg/kg dry	48.1	39.4	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 48.1	U, D	µg/kg dry	48.1	15.1	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 96.2	U, D	µg/kg dry	96.2	26.7	50	"	"	"	"	"	X
67-66-3	Chloroform	< 48.1	U, D	µg/kg dry	48.1	25.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 96.2	U, D	µg/kg dry	96.2	19.9	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 48.1	U, D	µg/kg dry	48.1	12.0	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 48.1	U, D	µg/kg dry	48.1	11.3	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 96.2	U, D	µg/kg dry	96.2	69.5	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 48.1	U, D	µg/kg dry	48.1	32.6	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 48.1	U, D	µg/kg dry	48.1	32.3	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 48.1	U, D	µg/kg dry	48.1	25.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	12.5	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	10.4	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	14.2	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 96.2	U, D	µg/kg dry	96.2	18.2	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 48.1	U, D	µg/kg dry	48.1	12.6	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 48.1	U, D	µg/kg dry	48.1	17.2	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 48.1	U, D	µg/kg dry	48.1	25.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 48.1	U, D	µg/kg dry	48.1	17.9	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 48.1	U, D	µg/kg dry	48.1	25.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 48.1	U, D	µg/kg dry	48.1	25.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 48.1	U, D	µg/kg dry	48.1	24.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 48.1	U, D	µg/kg dry	48.1	22.7	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 48.1	U, D	µg/kg dry	48.1	15.5	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 48.1	U, D	µg/kg dry	48.1	29.0	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 48.1	U, D	µg/kg dry	48.1	25.3	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 48.1	U, D	µg/kg dry	48.1	6.93	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 48.1	U, D	µg/kg dry	48.1	24.2	50	"	"	"	"	"	X

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Sample Identification

Sump-PE-E

SC44789-04

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 14:00

Received

15-Mar-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Volatile Organic Compounds

Re-analysis of Volatile Organic Compounds
by SW846 8260

GS1

Initial weight: 20.02 g

591-78-6	2-Hexanone (MBK)	< 96.2	U, D	µg/kg dry	96.2	59.0	50	SW846 8260C	16-Mar-18	16-Mar-18	GMA	1803569	X
98-82-8	Isopropylbenzene	< 48.1	U, D	µg/kg dry	48.1	9.48	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 48.1	U, D	µg/kg dry	48.1	10.3	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 48.1	U, D	µg/kg dry	48.1	17.7	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 96.2	U, D	µg/kg dry	96.2	24.7	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 96.2	U, D	µg/kg dry	96.2	19.1	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 48.1	U, D	µg/kg dry	48.1	28.6	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 48.1	U, D	µg/kg dry	48.1	7.80	50	"	"	"	"	"	X
100-42-5	Styrene	< 48.1	U, D	µg/kg dry	48.1	9.67	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 48.1	U, D	µg/kg dry	48.1	40.9	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 48.1	U, D	µg/kg dry	48.1	40.7	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 48.1	U, D	µg/kg dry	48.1	16.5	50	"	"	"	"	"	X
108-88-3	Toluene	834	D	µg/kg dry	48.1	15.6	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	16.9	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	35.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 48.1	U, D	µg/kg dry	48.1	15.1	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 48.1	U, D	µg/kg dry	48.1	16.0	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 48.1	U, D	µg/kg dry	48.1	34.9	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 48.1	U, D	µg/kg dry	48.1	13.1	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 48.1	U, D	µg/kg dry	48.1	25.9	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 48.1	U, D	µg/kg dry	48.1	36.1	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 48.1	U, D	µg/kg dry	48.1	11.7	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 48.1	U, D	µg/kg dry	48.1	8.28	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 48.1	U, D	µg/kg dry	48.1	16.3	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	60.2	J, D	µg/kg dry	96.2	8.66	50	"	"	"	"	"	X
95-47-6	o-Xylene	14.9	J, D	µg/kg dry	48.1	13.5	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 96.2	U, D	µg/kg dry	96.2	75.8	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 48.1	U, D	µg/kg dry	48.1	43.6	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 48.1	U, D	µg/kg dry	48.1	16.1	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 48.1	U, D	µg/kg dry	48.1	25.9	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 48.1	U, D	µg/kg dry	48.1	8.95	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 481	U, D	µg/kg dry	481	315	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 962	U, D	µg/kg dry	962	836	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 241	U, D	µg/kg dry	241	110	50	"	"	"	"	"	X
64-17-5	Ethanol	< 9620	U, D	µg/kg dry	9620	1790	50	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	95			70-130 %		"	"	"	"	"	"	

General Chemistry Parameters

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<u>Sample Identification</u>				<u>Client Project #</u>			<u>Matrix</u>		<u>Collection Date/Time</u>		<u>Received</u>		
Sump-PE-E				0438688			Soil		14-Mar-18 14:00		15-Mar-18		
SC44789-04													
<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters													
	% Solids	89.1		%			1	SM2540 G (11) Mod.	15-Mar-18	15-Mar-18	VO	1803596	

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803569 - SW846 5035A Soil (high level)										
Blank (1803569-BLK1)					<u>Prepared & Analyzed: 16-Mar-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803569 - SW846 5035A Soil (high level)										
Blank (1803569-BLK1)					<u>Prepared & Analyzed: 16-Mar-18</u>					
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	50.0		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	49.4		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/kg		50.0		101	70-130		
Surrogate: Dibromofluoromethane	50.4		µg/kg		50.0		101	70-130		
LCS (1803569-BS1)					<u>Prepared & Analyzed: 16-Mar-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.8	D	µg/kg		20.0		109	70-130		
Acetone	25.9	D	µg/kg		20.0		130	70-130		
Acrylonitrile	20.6	D	µg/kg		20.0		103	70-130		
Benzene	21.0	D	µg/kg		20.0		105	70-130		
Bromobenzene	21.3	D	µg/kg		20.0		106	70-130		
Bromochloromethane	20.9	D	µg/kg		20.0		104	70-130		
Bromodichloromethane	19.9	D	µg/kg		20.0		99	70-130		
Bromoform	20.3	D	µg/kg		20.0		102	70-130		
Bromomethane	16.6	D	µg/kg		20.0		83	70-130		
2-Butanone (MEK)	20.2	D	µg/kg		20.0		101	70-130		
n-Butylbenzene	19.7	D	µg/kg		20.0		99	70-130		
sec-Butylbenzene	20.0	D	µg/kg		20.0		100	70-130		
tert-Butylbenzene	20.1	D	µg/kg		20.0		101	70-130		
Carbon disulfide	21.4	D	µg/kg		20.0		107	70-130		
Carbon tetrachloride	20.3	D	µg/kg		20.0		101	70-130		
Chlorobenzene	20.5	D	µg/kg		20.0		103	70-130		
Chloroethane	19.1	D	µg/kg		20.0		95	70-130		
Chloroform	20.1	D	µg/kg		20.0		101	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803569 - SW846 5035A Soil (high level)										
LCS (1803569-BS1)	Prepared & Analyzed: 16-Mar-18									
Chloromethane	19.3	D	µg/kg		20.0		97	70-130		
2-Chlorotoluene	21.1	D	µg/kg		20.0		105	70-130		
4-Chlorotoluene	21.6	D	µg/kg		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	19.9	D	µg/kg		20.0		100	70-130		
Dibromochloromethane	20.5	D	µg/kg		20.0		102	70-130		
1,2-Dibromoethane (EDB)	21.6	D	µg/kg		20.0		108	70-130		
Dibromomethane	20.1	D	µg/kg		20.0		100	70-130		
1,2-Dichlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
1,3-Dichlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
1,4-Dichlorobenzene	20.0	D	µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	19.9	D	µg/kg		20.0		99	70-130		
1,1-Dichloroethane	20.6	D	µg/kg		20.0		103	70-130		
1,2-Dichloroethane	20.2	D	µg/kg		20.0		101	70-130		
1,1-Dichloroethene	22.0	D	µg/kg		20.0		110	70-130		
cis-1,2-Dichloroethene	21.1	D	µg/kg		20.0		106	70-130		
trans-1,2-Dichloroethene	20.8	D	µg/kg		20.0		104	70-130		
1,2-Dichloropropane	21.1	D	µg/kg		20.0		105	70-130		
1,3-Dichloropropane	20.5	D	µg/kg		20.0		103	70-130		
2,2-Dichloropropane	22.2	D	µg/kg		20.0		111	70-130		
1,1-Dichloropropene	19.7	D	µg/kg		20.0		99	70-130		
cis-1,3-Dichloropropene	19.6	D	µg/kg		20.0		98	70-130		
trans-1,3-Dichloropropene	19.7	D	µg/kg		20.0		99	70-130		
Ethylbenzene	22.4	D	µg/kg		20.0		112	70-130		
Hexachlorobutadiene	21.9	D	µg/kg		20.0		110	70-130		
2-Hexanone (MBK)	21.0	D	µg/kg		20.0		105	70-130		
Isopropylbenzene	22.0	D	µg/kg		20.0		110	70-130		
4-Isopropyltoluene	20.1	D	µg/kg		20.0		101	70-130		
Methyl tert-butyl ether	22.0	D	µg/kg		20.0		110	70-130		
4-Methyl-2-pentanone (MIBK)	20.9	D	µg/kg		20.0		105	70-130		
Methylene chloride	21.0	D	µg/kg		20.0		105	70-130		
Naphthalene	20.1	D	µg/kg		20.0		101	70-130		
n-Propylbenzene	19.5	D	µg/kg		20.0		98	70-130		
Styrene	19.6	D	µg/kg		20.0		98	70-130		
1,1,1,2-Tetrachloroethane	22.1	D	µg/kg		20.0		111	70-130		
1,1,2,2-Tetrachloroethane	19.7	D	µg/kg		20.0		99	70-130		
Tetrachloroethene	21.6	D	µg/kg		20.0		108	70-130		
Toluene	20.4	D	µg/kg		20.0		102	70-130		
1,2,3-Trichlorobenzene	20.2	D	µg/kg		20.0		101	70-130		
1,2,4-Trichlorobenzene	20.5	D	µg/kg		20.0		102	70-130		
1,3,5-Trichlorobenzene	20.2	D	µg/kg		20.0		101	70-130		
1,1,1-Trichloroethane	20.8	D	µg/kg		20.0		104	70-130		
1,1,2-Trichloroethane	20.7	D	µg/kg		20.0		104	70-130		
Trichloroethene	21.2	D	µg/kg		20.0		106	70-130		
Trichlorofluoromethane (Freon 11)	21.0	D	µg/kg		20.0		105	70-130		
1,2,3-Trichloropropane	20.8	D	µg/kg		20.0		104	70-130		
1,2,4-Trimethylbenzene	20.3	D	µg/kg		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.0	D	µg/kg		20.0		100	70-130		
Vinyl chloride	21.6	D	µg/kg		20.0		108	70-130		
m,p-Xylene	19.7	D	µg/kg		20.0		99	70-130		
o-Xylene	22.8	D	µg/kg		20.0		114	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1803569 - SW846 5035A Soil (high level)										
<u>LCS (1803569-BS1)</u>					<u>Prepared & Analyzed: 16-Mar-18</u>					
Tetrahydrofuran	17.8	D	µg/kg		20.0		89	70-130		
Ethyl ether	21.5	D	µg/kg		20.0		108	70-130		
Tert-amyl methyl ether	19.6	D	µg/kg		20.0		98	70-130		
Ethyl tert-butyl ether	22.3	D	µg/kg		20.0		112	70-130		
Di-isopropyl ether	21.0	D	µg/kg		20.0		105	70-130		
Tert-Butanol / butyl alcohol	230	D	µg/kg		200		115	70-130		
1,4-Dioxane	193	D	µg/kg		200		96	70-130		
trans-1,4-Dichloro-2-butene	18.7	D	µg/kg		20.0		94	70-130		
Ethanol	422	D	µg/kg		400		106	70-130		
Surrogate: 4-Bromofluorobenzene	50.7		µg/kg		50.0		101	70-130		
Surrogate: Toluene-d8	50.4		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/kg		50.0		99	70-130		
Surrogate: Dibromofluoromethane	50.2		µg/kg		50.0		100	70-130		
<u>LCS Dup (1803569-BSD1)</u>					<u>Prepared & Analyzed: 16-Mar-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	18.8	D	µg/kg		20.0		94	70-130	15	30
Acetone	23.7	D	µg/kg		20.0		119	70-130	9	30
Acrylonitrile	21.0	D	µg/kg		20.0		105	70-130	2	30
Benzene	20.1	D	µg/kg		20.0		101	70-130	4	30
Bromobenzene	20.3	D	µg/kg		20.0		102	70-130	5	30
Bromochloromethane	20.7	D	µg/kg		20.0		104	70-130	0.8	30
Bromodichloromethane	20.0	D	µg/kg		20.0		100	70-130	0.4	30
Bromoform	19.8	D	µg/kg		20.0		99	70-130	3	30
Bromomethane	16.0	D	µg/kg		20.0		80	70-130	4	30
2-Butanone (MEK)	22.2	D	µg/kg		20.0		111	70-130	10	30
n-Butylbenzene	19.0	D	µg/kg		20.0		95	70-130	4	30
sec-Butylbenzene	18.5	D	µg/kg		20.0		93	70-130	8	30
tert-Butylbenzene	18.9	D	µg/kg		20.0		94	70-130	6	30
Carbon disulfide	17.8	D	µg/kg		20.0		89	70-130	18	30
Carbon tetrachloride	19.7	D	µg/kg		20.0		99	70-130	3	30
Chlorobenzene	19.6	D	µg/kg		20.0		98	70-130	5	30
Chloroethane	18.2	D	µg/kg		20.0		91	70-130	5	30
Chloroform	19.2	D	µg/kg		20.0		96	70-130	5	30
Chloromethane	18.1	D	µg/kg		20.0		90	70-130	7	30
2-Chlorotoluene	20.2	D	µg/kg		20.0		101	70-130	4	30
4-Chlorotoluene	20.3	D	µg/kg		20.0		101	70-130	6	30
1,2-Dibromo-3-chloropropane	20.0	D	µg/kg		20.0		100	70-130	0.4	30
Dibromochloromethane	19.6	D	µg/kg		20.0		98	70-130	5	30
1,2-Dibromoethane (EDB)	21.4	D	µg/kg		20.0		107	70-130	0.7	30
Dibromomethane	19.4	D	µg/kg		20.0		97	70-130	3	30
1,2-Dichlorobenzene	19.5	D	µg/kg		20.0		97	70-130	5	30
1,3-Dichlorobenzene	18.8	D	µg/kg		20.0		94	70-130	9	30
1,4-Dichlorobenzene	19.2	D	µg/kg		20.0		96	70-130	4	30
Dichlorodifluoromethane (Freon12)	18.9	D	µg/kg		20.0		94	70-130	5	30
1,1-Dichloroethane	19.8	D	µg/kg		20.0		99	70-130	4	30
1,2-Dichloroethane	20.6	D	µg/kg		20.0		103	70-130	2	30
1,1-Dichloroethene	20.5	D	µg/kg		20.0		102	70-130	7	30
cis-1,2-Dichloroethene	20.4	D	µg/kg		20.0		102	70-130	4	30
trans-1,2-Dichloroethene	20.1	D	µg/kg		20.0		100	70-130	4	30
1,2-Dichloropropane	20.4	D	µg/kg		20.0		102	70-130	3	30
1,3-Dichloropropane	20.7	D	µg/kg		20.0		104	70-130	0.9	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803569 - SW846 5035A Soil (high level)										
<u>LCS Dup (1803569-BSD1)</u>					<u>Prepared & Analyzed: 16-Mar-18</u>					
2,2-Dichloropropane	21.1	D	µg/kg		20.0		105	70-130	5	30
1,1-Dichloropropene	19.4	D	µg/kg		20.0		97	70-130	2	30
cis-1,3-Dichloropropene	19.6	D	µg/kg		20.0		98	70-130	0.05	30
trans-1,3-Dichloropropene	19.9	D	µg/kg		20.0		99	70-130	0.8	30
Ethylbenzene	21.2	D	µg/kg		20.0		106	70-130	5	30
Hexachlorobutadiene	20.1	D	µg/kg		20.0		101	70-130	8	30
2-Hexanone (MBK)	22.4	D	µg/kg		20.0		112	70-130	7	30
Isopropylbenzene	20.7	D	µg/kg		20.0		104	70-130	6	30
4-Isopropyltoluene	19.3	D	µg/kg		20.0		96	70-130	4	30
Methyl tert-butyl ether	22.0	D	µg/kg		20.0		110	70-130	0	30
4-Methyl-2-pentanone (MIBK)	20.8	D	µg/kg		20.0		104	70-130	0.4	30
Methylene chloride	20.5	D	µg/kg		20.0		102	70-130	3	30
Naphthalene	19.0	D	µg/kg		20.0		95	70-130	6	30
n-Propylbenzene	18.2	D	µg/kg		20.0		91	70-130	7	30
Styrene	18.5	D	µg/kg		20.0		92	70-130	6	30
1,1,1,2-Tetrachloroethane	20.8	D	µg/kg		20.0		104	70-130	6	30
1,1,2,2-Tetrachloroethane	20.0	D	µg/kg		20.0		100	70-130	1	30
Tetrachloroethene	19.5	D	µg/kg		20.0		97	70-130	10	30
Toluene	19.6	D	µg/kg		20.0		98	70-130	4	30
1,2,3-Trichlorobenzene	18.9	D	µg/kg		20.0		94	70-130	7	30
1,2,4-Trichlorobenzene	18.6	D	µg/kg		20.0		93	70-130	10	30
1,3,5-Trichlorobenzene	18.7	D	µg/kg		20.0		94	70-130	8	30
1,1,1-Trichloroethane	19.6	D	µg/kg		20.0		98	70-130	6	30
1,1,2-Trichloroethane	20.5	D	µg/kg		20.0		103	70-130	0.8	30
Trichloroethene	20.7	D	µg/kg		20.0		103	70-130	3	30
Trichlorofluoromethane (Freon 11)	19.4	D	µg/kg		20.0		97	70-130	8	30
1,2,3-Trichloropropane	20.8	D	µg/kg		20.0		104	70-130	0.1	30
1,2,4-Trimethylbenzene	19.0	D	µg/kg		20.0		95	70-130	7	30
1,3,5-Trimethylbenzene	18.9	D	µg/kg		20.0		94	70-130	6	30
Vinyl chloride	20.8	D	µg/kg		20.0		104	70-130	4	30
m,p-Xylene	18.7	D	µg/kg		20.0		93	70-130	6	30
o-Xylene	21.3	D	µg/kg		20.0		106	70-130	7	30
Tetrahydrofuran	19.6	D	µg/kg		20.0		98	70-130	10	30
Ethyl ether	21.1	D	µg/kg		20.0		106	70-130	2	30
Tert-amyl methyl ether	19.4	D	µg/kg		20.0		97	70-130	0.7	30
Ethyl tert-butyl ether	22.5	D	µg/kg		20.0		112	70-130	0.6	30
Di-isopropyl ether	21.0	D	µg/kg		20.0		105	70-130	0.2	30
Tert-Butanol / butyl alcohol	225	D	µg/kg		200		112	70-130	2	30
1,4-Dioxane	181	D	µg/kg		200		91	70-130	6	30
trans-1,4-Dichloro-2-butene	19.5	D	µg/kg		20.0		97	70-130	4	30
Ethanol	320	D	µg/kg		400		80	70-130	28	30
Surrogate: 4-Bromofluorobenzene	50.2		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	50.1		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.5		µg/kg		50.0		103	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg		50.0		99	70-130		
Batch 1803616 - SW846 5035A Soil (low level)										
<u>Blank (1803616-BLK1)</u>					<u>Prepared & Analyzed: 16-Mar-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803616 - SW846 5035A Soil (low level)										
Blank (1803616-BLK1)	Prepared & Analyzed: 16-Mar-18									
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803616 - SW846 5035A Soil (low level)										
Blank (1803616-BLK1)					<u>Prepared & Analyzed: 16-Mar-18</u>					
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	46.9		µg/kg		50.0		94	70-130		
Surrogate: Toluene-d8	51.8		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	61.1		µg/kg		50.0		122	70-130		
Surrogate: Dibromofluoromethane	55.0		µg/kg		50.0		110	70-130		
LCS (1803616-BS1)					<u>Prepared & Analyzed: 16-Mar-18</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.9		µg/kg		20.0		109	70-130		
Acetone	19.2		µg/kg		20.0		96	70-130		
Acrylonitrile	19.6		µg/kg		20.0		98	70-130		
Benzene	21.2		µg/kg		20.0		106	70-130		
Bromobenzene	20.4		µg/kg		20.0		102	70-130		
Bromochloromethane	22.7		µg/kg		20.0		114	70-130		
Bromodichloromethane	23.4		µg/kg		20.0		117	70-130		
Bromoform	22.8		µg/kg		20.0		114	70-130		
Bromomethane	20.6		µg/kg		20.0		103	70-130		
2-Butanone (MEK)	16.5		µg/kg		20.0		83	70-130		
n-Butylbenzene	21.6		µg/kg		20.0		108	70-130		
sec-Butylbenzene	21.0		µg/kg		20.0		105	70-130		
tert-Butylbenzene	20.9		µg/kg		20.0		104	70-130		
Carbon disulfide	26.8	QC2	µg/kg		20.0		134	70-130		
Carbon tetrachloride	24.4		µg/kg		20.0		122	70-130		
Chlorobenzene	20.6		µg/kg		20.0		103	70-130		
Chloroethane	17.6		µg/kg		20.0		88	70-130		
Chloroform	21.4		µg/kg		20.0		107	70-130		
Chloromethane	18.9		µg/kg		20.0		95	70-130		
2-Chlorotoluene	20.8		µg/kg		20.0		104	70-130		
4-Chlorotoluene	21.4		µg/kg		20.0		107	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803616 - SW846 5035A Soil (low level)										
LCS (1803616-BS1)					Prepared & Analyzed: 16-Mar-18					
1,2-Dibromo-3-chloropropane	21.8		µg/kg		20.0		109	70-130		
Dibromochloromethane	22.1		µg/kg		20.0		110	70-130		
1,2-Dibromoethane (EDB)	21.3		µg/kg		20.0		107	70-130		
Dibromomethane	21.4		µg/kg		20.0		107	70-130		
1,2-Dichlorobenzene	20.5		µg/kg		20.0		102	70-130		
1,3-Dichlorobenzene	20.9		µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	20.1		µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	18.2		µg/kg		20.0		91	70-130		
1,1-Dichloroethane	21.0		µg/kg		20.0		105	70-130		
1,2-Dichloroethane	20.2		µg/kg		20.0		101	70-130		
1,1-Dichloroethene	21.4		µg/kg		20.0		107	70-130		
cis-1,2-Dichloroethene	21.7		µg/kg		20.0		108	70-130		
trans-1,2-Dichloroethene	21.4		µg/kg		20.0		107	70-130		
1,2-Dichloropropane	21.0		µg/kg		20.0		105	70-130		
1,3-Dichloropropane	19.6		µg/kg		20.0		98	70-130		
2,2-Dichloropropane	21.5		µg/kg		20.0		108	70-130		
1,1-Dichloropropene	19.4		µg/kg		20.0		97	70-130		
cis-1,3-Dichloropropene	22.2		µg/kg		20.0		111	70-130		
trans-1,3-Dichloropropene	20.4		µg/kg		20.0		102	70-130		
Ethylbenzene	20.5		µg/kg		20.0		103	70-130		
Hexachlorobutadiene	21.5		µg/kg		20.0		107	70-130		
2-Hexanone (MBK)	19.2		µg/kg		20.0		96	70-130		
Isopropylbenzene	20.4		µg/kg		20.0		102	70-130		
4-Isopropyltoluene	22.1		µg/kg		20.0		110	70-130		
Methyl tert-butyl ether	20.3		µg/kg		20.0		101	70-130		
4-Methyl-2-pentanone (MIBK)	18.3		µg/kg		20.0		92	70-130		
Methylene chloride	24.7		µg/kg		20.0		123	70-130		
Naphthalene	19.4		µg/kg		20.0		97	70-130		
n-Propylbenzene	20.8		µg/kg		20.0		104	70-130		
Styrene	20.7		µg/kg		20.0		103	70-130		
1,1,1,2-Tetrachloroethane	23.1		µg/kg		20.0		116	70-130		
1,1,2,2-Tetrachloroethane	20.1		µg/kg		20.0		100	70-130		
Tetrachloroethene	21.4		µg/kg		20.0		107	70-130		
Toluene	21.1		µg/kg		20.0		105	70-130		
1,2,3-Trichlorobenzene	20.1		µg/kg		20.0		100	70-130		
1,2,4-Trichlorobenzene	20.4		µg/kg		20.0		102	70-130		
1,3,5-Trichlorobenzene	21.6		µg/kg		20.0		108	70-130		
1,1,1-Trichloroethane	23.0		µg/kg		20.0		115	70-130		
1,1,2-Trichloroethane	20.4		µg/kg		20.0		102	70-130		
Trichloroethene	21.2		µg/kg		20.0		106	70-130		
Trichlorofluoromethane (Freon 11)	19.0		µg/kg		20.0		95	70-130		
1,2,3-Trichloropropane	18.5		µg/kg		20.0		92	70-130		
1,2,4-Trimethylbenzene	21.7		µg/kg		20.0		109	70-130		
1,3,5-Trimethylbenzene	21.7		µg/kg		20.0		108	70-130		
Vinyl chloride	20.5		µg/kg		20.0		103	70-130		
m,p-Xylene	20.8		µg/kg		20.0		104	70-130		
o-Xylene	21.3		µg/kg		20.0		106	70-130		
Tetrahydrofuran	14.6		µg/kg		20.0		73	70-130		
Ethyl ether	14.2		µg/kg		20.0		71	70-130		
Tert-amyl methyl ether	17.1		µg/kg		20.0		85	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803616 - SW846 5035A Soil (low level)										
LCS (1803616-BS1)					Prepared & Analyzed: 16-Mar-18					
Ethyl tert-butyl ether	19.0		µg/kg		20.0		95	70-130		
Di-isopropyl ether	18.5		µg/kg		20.0		92	70-130		
Tert-Butanol / butyl alcohol	152		µg/kg		200		76	70-130		
1,4-Dioxane	181		µg/kg		200		91	70-130		
trans-1,4-Dichloro-2-butene	24.6		µg/kg		20.0		123	70-130		
Ethanol	304		µg/kg		400		76	70-130		
Surrogate: 4-Bromofluorobenzene	49.7		µg/kg		50.0		99	70-130		
Surrogate: Toluene-d8	51.5		µg/kg		50.0		103	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.2		µg/kg		50.0		96	70-130		
Surrogate: Dibromofluoromethane	53.1		µg/kg		50.0		106	70-130		
LCS Dup (1803616-BSD1)					Prepared & Analyzed: 16-Mar-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.9		µg/kg		20.0		109	70-130	0.1	30
Acetone	24.8		µg/kg		20.0		124	70-130	26	30
Acrylonitrile	21.9		µg/kg		20.0		109	70-130	11	30
Benzene	21.5		µg/kg		20.0		107	70-130	1	30
Bromobenzene	21.1		µg/kg		20.0		105	70-130	3	30
Bromochloromethane	23.6		µg/kg		20.0		118	70-130	3	30
Bromodichloromethane	24.2		µg/kg		20.0		121	70-130	3	30
Bromoform	24.3		µg/kg		20.0		122	70-130	6	30
Bromomethane	18.5		µg/kg		20.0		92	70-130	11	30
2-Butanone (MEK)	21.3		µg/kg		20.0		107	70-130	25	30
n-Butylbenzene	21.8		µg/kg		20.0		109	70-130	0.6	30
sec-Butylbenzene	21.2		µg/kg		20.0		106	70-130	1	30
tert-Butylbenzene	21.2		µg/kg		20.0		106	70-130	1	30
Carbon disulfide	26.5	QC2	µg/kg		20.0		132	70-130	1	30
Carbon tetrachloride	24.4		µg/kg		20.0		122	70-130	0.2	30
Chlorobenzene	20.9		µg/kg		20.0		104	70-130	1	30
Chloroethane	18.3		µg/kg		20.0		92	70-130	4	30
Chloroform	21.4		µg/kg		20.0		107	70-130	0.2	30
Chloromethane	19.5		µg/kg		20.0		97	70-130	3	30
2-Chlorotoluene	21.6		µg/kg		20.0		108	70-130	4	30
4-Chlorotoluene	21.9		µg/kg		20.0		109	70-130	2	30
1,2-Dibromo-3-chloropropane	24.8		µg/kg		20.0		124	70-130	13	30
Dibromochloromethane	23.4		µg/kg		20.0		117	70-130	6	30
1,2-Dibromoethane (EDB)	23.1		µg/kg		20.0		115	70-130	8	30
Dibromomethane	23.1		µg/kg		20.0		115	70-130	8	30
1,2-Dichlorobenzene	20.9		µg/kg		20.0		104	70-130	2	30
1,3-Dichlorobenzene	21.3		µg/kg		20.0		106	70-130	2	30
1,4-Dichlorobenzene	20.4		µg/kg		20.0		102	70-130	2	30
Dichlorodifluoromethane (Freon12)	18.1		µg/kg		20.0		91	70-130	0.4	30
1,1-Dichloroethane	21.2		µg/kg		20.0		106	70-130	0.6	30
1,2-Dichloroethane	21.0		µg/kg		20.0		105	70-130	4	30
1,1-Dichloroethene	21.5		µg/kg		20.0		108	70-130	0.7	30
cis-1,2-Dichloroethene	21.9		µg/kg		20.0		109	70-130	0.9	30
trans-1,2-Dichloroethene	21.6		µg/kg		20.0		108	70-130	0.7	30
1,2-Dichloropropane	21.5		µg/kg		20.0		108	70-130	3	30
1,3-Dichloropropane	21.1		µg/kg		20.0		105	70-130	7	30
2,2-Dichloropropane	21.6		µg/kg		20.0		108	70-130	0.2	30
1,1-Dichloropropene	19.8		µg/kg		20.0		99	70-130	2	30
cis-1,3-Dichloropropene	22.9		µg/kg		20.0		115	70-130	3	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1803616 - SW846 5035A Soil (low level)										
LCS Dup (1803616-BSD1)					Prepared & Analyzed: 16-Mar-18					
trans-1,3-Dichloropropene	21.6		µg/kg		20.0		108	70-130	6	30
Ethylbenzene	20.7		µg/kg		20.0		103	70-130	0.8	30
Hexachlorobutadiene	21.7		µg/kg		20.0		108	70-130	1	30
2-Hexanone (MBK)	26.0		µg/kg		20.0		130	70-130	30	30
Isopropylbenzene	20.4		µg/kg		20.0		102	70-130	0	30
4-Isopropyltoluene	21.8		µg/kg		20.0		109	70-130	1	30
Methyl tert-butyl ether	22.2		µg/kg		20.0		111	70-130	9	30
4-Methyl-2-pentanone (MIBK)	22.4		µg/kg		20.0		112	70-130	20	30
Methylene chloride	24.3		µg/kg		20.0		122	70-130	1	30
Naphthalene	22.9		µg/kg		20.0		114	70-130	17	30
n-Propylbenzene	20.7		µg/kg		20.0		104	70-130	0.3	30
Styrene	21.0		µg/kg		20.0		105	70-130	2	30
1,1,1,2-Tetrachloroethane	23.6		µg/kg		20.0		118	70-130	2	30
1,1,2,2-Tetrachloroethane	22.0		µg/kg		20.0		110	70-130	9	30
Tetrachloroethene	21.7		µg/kg		20.0		109	70-130	1	30
Toluene	21.1		µg/kg		20.0		106	70-130	0.1	30
1,2,3-Trichlorobenzene	22.2		µg/kg		20.0		111	70-130	10	30
1,2,4-Trichlorobenzene	21.9		µg/kg		20.0		109	70-130	7	30
1,3,5-Trichlorobenzene	22.5		µg/kg		20.0		112	70-130	4	30
1,1,1-Trichloroethane	23.2		µg/kg		20.0		116	70-130	0.7	30
1,1,2-Trichloroethane	21.9		µg/kg		20.0		109	70-130	7	30
Trichloroethene	21.3		µg/kg		20.0		106	70-130	0.3	30
Trichlorofluoromethane (Freon 11)	18.9		µg/kg		20.0		95	70-130	0.4	30
1,2,3-Trichloropropane	20.6		µg/kg		20.0		103	70-130	11	30
1,2,4-Trimethylbenzene	22.6		µg/kg		20.0		113	70-130	4	30
1,3,5-Trimethylbenzene	22.1		µg/kg		20.0		110	70-130	2	30
Vinyl chloride	20.6		µg/kg		20.0		103	70-130	0.1	30
m,p-Xylene	20.8		µg/kg		20.0		104	70-130	0.05	30
o-Xylene	21.3		µg/kg		20.0		106	70-130	0.1	30
Tetrahydrofuran	19.3		µg/kg		20.0		96	70-130	27	30
Ethyl ether	15.0		µg/kg		20.0		75	70-130	5	30
Tert-amyl methyl ether	18.4		µg/kg		20.0		92	70-130	8	30
Ethyl tert-butyl ether	20.2		µg/kg		20.0		101	70-130	6	30
Di-isopropyl ether	19.3		µg/kg		20.0		96	70-130	4	30
Tert-Butanol / butyl alcohol	186		µg/kg		200		93	70-130	20	30
1,4-Dioxane	176		µg/kg		200		88	70-130	3	30
trans-1,4-Dichloro-2-butene	27.7	QM9	µg/kg		20.0		138	70-130	12	30
Ethanol	329		µg/kg		400		82	70-130	8	30
Surrogate: 4-Bromofluorobenzene	50.0		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	50.9		µg/kg		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.7		µg/kg		50.0		99	70-130		
Surrogate: Dibromofluoromethane	53.1		µg/kg		50.0		106	70-130		

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC44789-01	<i>Sump-PE-S</i>	3/15/2018 5:18 PM
SC44789-02	<i>Sump-PE-B</i>	3/15/2018 5:18 PM
SC44789-03	<i>Sump-PE-N</i>	3/15/2018 5:18 PM
SC44789-04	<i>Sump-PE-E</i>	3/15/2018 5:18 PM

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
OR	Over Range
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Batch Summary

1803569

Volatile Organic Compounds

1803569-BLK1
1803569-BS1
1803569-BSD1
SC44789-01RE1 (Sump-PE-S)
SC44789-01RE2 (Sump-PE-S)
SC44789-02RE1 (Sump-PE-B)
SC44789-04RE1 (Sump-PE-E)

1803596

General Chemistry Parameters

SC44789-01 (Sump-PE-S)
SC44789-02 (Sump-PE-B)
SC44789-03 (Sump-PE-N)
SC44789-04 (Sump-PE-E)

1803616

Volatile Organic Compounds

1803616-BLK1
1803616-BS1
1803616-BSD1
SC44789-01 (Sump-PE-S)
SC44789-02 (Sump-PE-B)
SC44789-03 (Sump-PE-N)
SC44789-04 (Sump-PE-E)

S816061

Volatile Organic Compounds

S816061-CAL1
S816061-CAL2
S816061-CAL3
S816061-CAL4
S816061-CAL5
S816061-CAL6
S816061-CAL7
S816061-CAL8
S816061-CAL9
S816061-ICV1
S816061-LCV1
S816061-TUN1

S817374

Volatile Organic Compounds

S817374-CAL1
S817374-CAL2
S817374-CAL3
S817374-CAL4
S817374-CAL5
S817374-CAL6
S817374-CAL7
S817374-CAL8

S817374-CAL9
S817374-ICV1
S817374-LCV1
S817374-LCV2
S817374-LCV3
S817374-TUN1

S817679

Volatile Organic Compounds

S817679-CCV1
S817679-TUN1

S817681

Volatile Organic Compounds

S817681-CCV1
S817681-TUN1

Report Date:
19-Mar-18 15:05

Laboratory Report SC44761

Environmental Resources Management
99 East River Drive, 3rd Floor
East Hartford, CT 06108
Attn: Jason Fernet

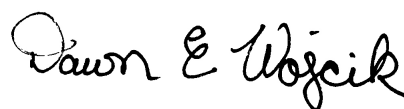
Project: Avery - Orangeburg, NY
Project #: 0438688

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC44761
Project: Avery - Orangeburg, NY
Project Number: 0438688

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC44761-01	Sump-PE-S	Soil	14-Mar-18 13:30	15-Mar-18 10:25
SC44761-02	Sump-PE-B	Soil	14-Mar-18 13:40	15-Mar-18 10:25
SC44761-03	Sump-PE-N	Soil	14-Mar-18 13:50	15-Mar-18 10:25
SC44761-04	Sump-PE-E	Soil	14-Mar-18 14:00	15-Mar-18 10:25

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 6.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

March 19, 2018 Report Revision Case Narrative:

This report has been revised to include qualifiers as indicated in the sublab report.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8015D MOD

Laboratory Control Samples:

CA02693-LCS

The MS/MSD could not be reported due to matrix interference. The LCS was within method criteria.

% 2-Pentanol(surr)
Ethanol
Isobutyl alcohol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

Samples:

SC44761-01 *Sump-PE-S*

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Ethanol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC44761-02 *Sump-PE-B*

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

SW8015D MOD

Samples:

SC44761-02 *Sump-PE-B*

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Ethanol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC44761-03 *Sump-PE-N*

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Ethanol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SC44761-04 *Sump-PE-E*

This parameter exceeds laboratory specified limits.

% 2-Pentanol(surr)

This parameter is not certified by NY NELAC for this matrix.

Isobutyl alcohol

This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

Ethanol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

CA02693-BLK

The MS/MSD could not be reported due to matrix interference. The LCS was within method criteria.

% 2-Pentanol(surr)
Ethanol
Isobutyl alcohol
Isopropyl alcohol
Methanol
n-Butanol
Propanol
Sec-Butanol

SW8015D MOD

CA02693-LCSD

The MS/MSD could not be reported due to matrix interference. The LCS was within method criteria.

% 2-Pentanol(surr)

Ethanol

Isobutyl alcohol

Isopropyl alcohol

Methanol

n-Butanol

Propanol

Sec-Butanol

Sample Acceptance Check Form

Client: Environmental Resources Management - Hartford, CT
Project: Avery - Orangeburg, NY / 0438688
Work Order: SC44761
Sample(s) received on: 3/15/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID:

Client ID:

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
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No hits detected.

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

Sump-PE-S

SC44761-01

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:30

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 422873-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.7	Q1	mg/kg	5.7	5.7	1	SW8015D MOD	15-Mar-18	15-Mar-18 22:45	11301	422873A	
78-83-1	Isobutyl alcohol	< 5.7	Q2	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-56-1	Methanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-23-8	Propanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	40	Q3		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

	Percent Solid	88		%			1	SW846-%Solid	14-Mar-18 13:30	15-Mar-18 22:36	11301	'[none]'	
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Sample Identification

Sump-PE-B

SC44761-02

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:40

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 422873-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.7	Q1	mg/kg	5.7	5.7	1	SW8015D MOD	15-Mar-18	15-Mar-18 23:28	11301	422873A	
78-83-1	Isobutyl alcohol	< 5.7	Q2	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
67-56-1	Methanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
71-23-8	Propanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.7	Q1	mg/kg	5.7	5.7	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	50	Q3		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

	Percent Solid	88		%			1	SW846-%Solid	14-Mar-18 13:40	15-Mar-18 22:36	11301	'[none]'	
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Sample Identification

Sump-PE-N

SC44761-03

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 13:50

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 422873-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.8	Q1	mg/kg	5.8	5.8	1	SW8015D MOD	15-Mar-18	16-Mar-18 00:11	11301	422873A	
78-83-1	Isobutyl alcohol	< 5.8	Q2	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
67-56-1	Methanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
71-23-8	Propanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.8	Q1	mg/kg	5.8	5.8	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	49			70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

	Percent Solid	86		%			1	SW846-%Solid	14-Mar-18 13:50	15-Mar-18 22:36	11301	'[none]'	
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Sample Identification

Sump-PE-E

SC44761-04

Client Project #

0438688

Matrix

Soil

Collection Date/Time

14-Mar-18 14:00

Received

15-Mar-18

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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Subcontracted AnalysesSubcontracted AnalysesPrepared by method 422873-SW80*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

64-17-5	Ethanol	< 5.6	Q1	mg/kg	5.6	5.6	1	SW8015D MOD	15-Mar-18	16-Mar-18 00:54	11301	422873A	
78-83-1	Isobutyl alcohol	< 5.6	Q2	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
67-56-1	Methanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
71-23-8	Propanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.6	Q1	mg/kg	5.6	5.6	1	"	"	"	"	"	

Surrogate recoveries:

6032-29-7	% 2-Pentanol(surr)	74	Q3		70-130 %			"	"	"	"	"	
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*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*

	Percent Solid	90		%			1	SW846-%Solid	14-Mar-18 14:00	15-Mar-18 22:36	11301	'[none]'	
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Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW8015D MOD</u>										
Batch 422873A - 422873-SW80										
<u>BLK (CA02693-BLK)</u>					Prepared & Analyzed: 15-Mar-18					
Ethanol	ND	c1	mg/kg	1.0				-		
Isobutyl alcohol	ND	c1	mg/kg	1.0				-		
Isopropyl alcohol	ND	c1	mg/kg	1.0				-		
Methanol	ND	c1	mg/kg	1.0				-		
n-Butanol	ND	c1	mg/kg	1.0				-		
Propanol	ND	c1	mg/kg	1.0				-		
Sec-Butanol	ND	c1	mg/kg	1.0				-		
Surrogate: % 2-Pentanol(surr)	78	c1	mg/kg		10			70-130		
<u>LCS (CA02693-LCS)</u>					Prepared & Analyzed: 15-Mar-18					
Methanol	7.863	c1	mg/kg	1.0	10		79	70-130		30
Ethanol	8.130	c1	mg/kg	1.0	10		81	70-130		30
Isopropyl alcohol	8.617	c1	mg/kg	1.0	10		86	70-130		30
n-Butanol	8.169	c1	mg/kg	1.0	10		82	70-130		30
Propanol	8.515	c1	mg/kg	1.0	10		85	70-130		30
Sec-Butanol	8.698	c1	mg/kg	1.0	10		87	70-130		30
Isobutyl alcohol	8.551	c1	mg/kg	1.0	10		86	70-130		30
Surrogate: % 2-Pentanol(surr)	8.591	c1	mg/kg		10		86	70-130		
<u>LCSD (CA02693-LCSD)</u>					Prepared & Analyzed: 15-Mar-18					
Sec-Butanol	10.69	c1	%	%	10		107	70-130	20.6	30
Ethanol	9.314	c1	%	%	10		93	70-130	13.8	30
Isobutyl alcohol	10.27	c1	%	%	10		103	70-130	18.0	30
Isopropyl alcohol	10.15	c1	%	%	10		101	70-130	16.0	30
Methanol	8.019	c1	%	%	10		80	70-130	1.3	30
n-Butanol	10.24	c1	%	%	10		102	70-130	21.7	30
Propanol	10.12	c1	%	%	10		101	70-130	17.2	30
Surrogate: % 2-Pentanol(surr)	10.42	c1	%		10		104	70-130		

Notes and Definitions

c1	The MS/MSD could not be reported due to matrix interference. The LCS was within method criteria.
Q1	This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
Q2	This parameter is not certified by NY NELAC for this matrix.
Q3	This parameter exceeds laboratory specified limits.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 3/19/18

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To:

ERM - ERM-H004
99 E. River Dr. Suite 300
E. Hanford, CT 06105

Invoice To:

Same

Telephone #:

860 604-4372

P.O. No.:

Quote #:

Project No: 0438688
Site Name: Avery
Location: Orangeburg
Sample(s): 11-14

State: NY

Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1=

X2=

X3=

G=Grab

C=Composite

Type Matrix

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

MA DEP MCH CAV Report? ☐ Yes ☐ No
CT DEP RCP Report? ☐ Yes ☐ No
☐ Standard ☒ QA* ☐ No QC
☐ ASP A* ☐ ASP B* ☐ NI Full*
☐ NI Reduced* ☐ Inter II* ☐ Inter IV*
Other: State-specific reporting standards

Sample PE-S 3/14/18 1320 6.50
Sample PE-B 1340 6.50
Sample PE-N 1350 6.50
Sample PE-E 1400 6.50

Alcohols by 8.5

44761-01
1-03
1-04

Paradise

315118

1025

☐ EDD format
☒ E-mail to:

jaion.fern@ERM.cn

Batch Summary

'Inonel'

Subcontracted Analyses

SC44761-01 (Sump-PE-S)

SC44761-02 (Sump-PE-B)

SC44761-03 (Sump-PE-N)

SC44761-04 (Sump-PE-E)

422873A

Subcontracted Analyses

CA02693-BLK

CA02693-LCS

CA02693-LCSD

SC44761-01 (Sump-PE-S)

SC44761-02 (Sump-PE-B)

SC44761-03 (Sump-PE-N)

SC44761-04 (Sump-PE-E)

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Avery Dennison, 524 Route 303, Orangeburg, NY

0438688

SGS Job Number: JC66770

Sampling Date: 05/24/18

Report to:

ERM, Inc.

eugene.gabay@erm.com

ATTN: Eugene Gabay

Total number of pages in report: 17



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


A. Paul Ioannidis
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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-1-

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Sample Summary

ERM, Inc.

Job No: JC66770

Avery Dennison, 524 Route 303, Orangeburg, NY
Project No: 0438688

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC66770-1	05/24/18	09:45 EM	05/24/18	AQ	Ground Water	MW-03-052418
JC66770-1D	05/24/18	09:45 EM	05/24/18	AQ	Water Dup/MSD	MW-03(MSD)-052418
JC66770-1S	05/24/18	09:45 EM	05/24/18	AQ	Water Matrix Spike	MW-03(MS)-052418
JC66770-2	05/24/18	00:00 EM	05/24/18	AQ	Ground Water	DUP052418

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: ERM, Inc.

Job No JC66770

Site: Avery Dennison, 524 Route 303, Orangeburg, NY

Report Date 5/31/2018 12:15:40 P

On 05/24/2018, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC66770 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ

Batch ID: V2B7176

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC66770-1MS, JC66770-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JC66770-1 for Chloromethane: Associated CCV outside of control limits high, sample was ND.
- JC66770-1 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC66770-1 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JC66770-2 for Chloromethane: Associated CCV outside of control limits high, sample was ND.
- JC66770-2 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.
- JC66770-2 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.

GC Volatiles By Method SW846-8015C (DAI)

Matrix: AQ

Batch ID: GGH6062

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC66770-1MS, JC66770-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

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

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

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

Thursday, May 31, 2018

Page 1 of 1

Summary of Hits

Job Number: JC66770
Account: ERM, Inc.
Project: Avery Dennison, 524 Route 303, Orangeburg, NY
Collected: 05/24/18



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

JC66770-1 MW-03-052418

No hits reported in this sample.

JC66770-2 DUP052418

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	MW-03-052418	Date Sampled:	05/24/18
Lab Sample ID:	JC66770-1	Date Received:	05/24/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B160697.D	1	05/29/18 21:14	JTP	n/a	n/a	V2B7176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	MW-03-052418	Date Sampled:	05/24/18
Lab Sample ID:	JC66770-1	Date Received:	05/24/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	104%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

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

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

Report of Analysis

Client Sample ID:	MW-03-052418		
Lab Sample ID:	JC66770-1	Date Sampled:	05/24/18
Matrix:	AQ - Ground Water	Date Received:	05/24/18
Method:	SW846-8015C (DAI)	Percent Solids:	n/a
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH114459.D	1	05/30/18 07:58	XPL	n/a	n/a	GGH6062
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	87%		56-145%
111-27-3	Hexanol	82%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	DUP052418	Date Sampled:	05/24/18
Lab Sample ID:	JC66770-2	Date Received:	05/24/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B160698.D	1	05/29/18 21:44	JTP	n/a	n/a	V2B7176
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.17	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.4	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.8	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	1.0	0.59	ug/l	
67-66-3	Chloroform	ND	1.0	0.29	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.53	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.16	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.21	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	1.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.47	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.40	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.22	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	3.3	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	DUP052418	Date Sampled:	05/24/18
Lab Sample ID:	JC66770-2	Date Received:	05/24/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.25	ug/l	
79-20-9	Methyl Acetate	ND	5.0	3.1	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.8	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.17	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.62	ug/l	
	m,p-Xylene	ND	1.0	0.43	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	104%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

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

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

Report of Analysis

Client Sample ID:	DUP052418						
Lab Sample ID:	JC66770-2					Date Sampled:	05/24/18
Matrix:	AQ - Ground Water					Date Received:	05/24/18
Method:	SW846-8015C (DAI)					Percent Solids:	n/a
Project:	Avery Dennison, 524 Route 303, Orangeburg, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH114462.D	1	05/30/18 08:54	XPL	n/a	n/a	GGH6062
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	99%		56-145%
111-27-3	Hexanol	76%		56-145%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Barcode Control #
SGS Quote #	SGS Job #
17-052218-52	
JC66770	

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name ERM	Project Name Avery Dennison	V8260TCL20 VMS+MEK D8015IPA	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
Street Address 105 Maxess Road	Street 524 Route 303		
City Melville NY	City Orangeburg NY		
State NY	State NY		
Zip 11747	Zip 0073930		
Project Contact Jason.Fernet@erm.com	Project # 0073930		
Phone # (810) 416-8517	Client Purchase Order #		
Sample(s) Name(s) Eric Marcus (631) 735068	Project Manager Jason Fernet		
Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	LAB USE ONLY
1	MW-03-052418	5/24/18	0945
1	MW-03-052418 EM-5/24		
1	MW-03(MS)-052418		
1	MW-03(MSD)-052418		
2	DUIP-052418	0000	
Turnaround Time (Business days)			
Approved by (SGS Project Manager)/Date:			
Commercial "A" (Level 1) Commercial "B" (Level 2) FULLT1 (Level 3+4) NJ Reduced Commercial "C" NJ Data of Known Quality Protocol Reporting Commercial "A" = Results Only; Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data			
NYASP Category A NYASP Category B State Forms EDD Format Other			
Comments / Special Instructions			
INITIAL ASSESSMENT			
Sample inventory is verified upon receipt in the Laboratory			
RECEIVED VERIFICATION			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1	5/24/18 14:00	1	5/24/18 17:05
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
3		3	
Relinquished by:	Date Time:	Received By:	Date Time:
5		5	
Custody Seal #			
Intact Not intact			
Preserved where applicable			
On Ice Cooler Temp.			

SGS Sample Receipt Summary

Job Number: JC66770

Client: ERM, INC.

Project: AVERY DENNISON, 524 ROUTE 303, ORANGEB

Date / Time Received: 5/24/2018 5:05:00 PM

Delivery Method:

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Security

Y or N

Y or N

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

Cooler Temperature

Y or N

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

Quality Control Preservation

Y or N

N/A

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

Sample Integrity - Documentation

Y or N

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

Sample Integrity - Condition

Y or N

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

Sample Integrity - Instructions

Y or N

N/A

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

Test Strip Lot #s:

pH 1-12: 216017

pH 12+: 208717

Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JC66770: Chain of Custody

Page 2 of 4

Job Change Order: JC66770

Requested Date: 5/25/2018 Received Date: 5/24/2018
Account Name: ERM, Inc. Due Date: 6/7/2018
Project Description: Avery Dennison, 524 Route 303, Orangeburg, NY NYASPB
C/O Initiated By: TAMMY PM: TM Deliverable: 14
TAT (Days): 14

Sample #: JC66770-all Change: revise client project number to 0438688
Dept:
TAT: 14

Above Changes Per: Eric Marcus Date/Time: 5/25/2018 12:58:03 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JC66770

Requested Date: 5/25/2018 Received Date: 5/24/2018
Account Name: ERM, Inc. Due Date: 6/7/2018
Project Description: Avery Dennison, 524 Route 303, Orangeburg, NY NYASPB
C/O Initiated By: TAMMY PM: TM TAT (Days): 14

Sample #: JC66770-all Change: revise client project number to 0438688
Dept:
TAT: 14

Above Changes Per: Eric Marcus Date/Time: 5/25/2018 12:58:03 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

APPENDIX C
NYSDEC BACKFILL RE-USE
APPROVAL

From: Parisio, Steve (DEC) [<mailto:steve.parisio@dec.ny.gov>]
Sent: Wednesday, January 31, 2018 9:57 AM
To: Jason Fernet <Jason.Fernet@erm.com>
Cc: Lansing, James (DEC) <james.lansing@dec.ny.gov>; Moore, Edward L (DEC) <edward.moore@dec.ny.gov>
Subject: RE: Orangeburg - NY Backfill

Jason:

This is to confirm my concurrence that excavation spoils consisting of “pea gravel”, which you described as gravel sized rock particles (1/4 inch and larger in size), free of soil (particles < 2 mm in size), free of petroleum residues, staining, odors or other evidence of contamination, are not a regulated solid waste and do not require the type of testing that would be required for soil. Since you did have the material tested (after being pulverized by the lab) and found all parameters below Part 375 unrestricted SCOs except for copper, which is slightly above the unrestricted SCO (50 mg/kg), but below the residential SCO (270 mg/kg), the test results are consistent with this being free of contamination and do not raise any solid waste regulatory or environmental concern.

Steve Parisio
Regional Solid Waste Geologist
NYS Dept of Environmental Conservation
Region 3 Office
21 South Putt Corners Rd
New Paltz, NY 12561
845-256-3126
steve.parisio@dec.ny.gov

From: Jason Fernet [<mailto:Jason.Fernet@erm.com>]
Sent: Tuesday, January 30, 2018 6:55 PM
To: Parisio, Steve (DEC) <steve.parisio@dec.ny.gov>
Subject: Orangeburg - NY Backfill

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Steve as a follow-up to our phone conversation I just wanted to send this email to confirm you agree with the interpretation that the pea gravel backfill which contains low level detections of copper is suitable for reuse as clean backfill. Refer to the attached email for details. Please respond to this email with your concurrence or if you have any additional questions.

Thanks

Jason Fernet, PE, LEP
Principal Consultant

ERM
99 East River Drive, 3rd. Floor | East Hartford, CT | 06108
T 860-466-8517 | M 860-604-4372

E jason.fernet@erm.com | W www.erm.com



ERM *The business of sustainability*

APPENDIX D
CLEAN FILL RECEIPTS



JASON'S ~~ERM~~ CC *20937757* 18R002

DISPATCH:
 CUSTOMER: 82530 AES Remedial Contracting, LLC.
 SALES ORDER: Q324389
 PURCHASE ORDER:
 TRUCK: 36302A
 HAULER: 888888 FOB Vendor
 DELIVERY METHOD: Pickup ZONE CODE 60147-3
 TEM CODE: 1033008
 DESCRIPTION: ITEM 4

DELIVERY ADDRESS:
 TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:
 Tank Removal - 523 Rte 303 Orangeburg
 Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME	GROSS	73,640 lb	36.82 UT
	TARE	28,160 lb	14.08 UT
	NET	45,480 lb	22.74 UT
ON JOB TIME	# OF LOADS	US TONS TODAY	METRIC TONS TODAY
	1	22.74	20.63

TICKET: 20937757

DATE: 1/31/2018
 TIME: 08:58

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Dawn Spataro

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR



Jason's CC

20937792

18 RODA
ERM

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 54935A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	74,960 lb	37.48 UT
TARE	29,160 lb	14.58 UT
NET	45,800 lb	22.90 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
2	45.64	41.40

1 TICKET: 20937792

1 DATE: 1/31/2018

1 TIME: 10:15

2 DRIVER SIGNATURE

3 CUSTOMER SIGNATURE

4 LOCATION: 00209 West Nyack Quarry

5 SOURCE: 8-8R FACILITY ID:

6 SCALE: 1 WEIGHMASTER: Dawn Spataro

7 TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
8 ESTABLISHING WEIGHT OPERATION OF THIS VEHICLE IN EXCESS OF
9 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR

Phils CC



20937794

DISPATCH:
 CUSTOMER: 82530 AES Remedial Contracting, LLC.
 SALES ORDER: Q324389
 PURCHASE ORDER:
 TRUCK: 36302A
 HAULER: 888888 FOB Vendor
 DELIVERY METHOD: Pickup ZONE CODE 60147-3
 TEM CODE: 1033008
 DESCRIPTION: ITEM 4

DELIVERY ADDRESS:
 TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:
 Tank Removal - 523 Rte 303 Orangeburg
 Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME 	GROSS	74,680 lb	37.34 UT
	TARE	28,160 lb	14.08 UT
	NET	46,520 lb	23.26 UT
ON JOB TIME 	# OF LOADS	3	
	US TONS TODAY	68.90	METRIC TONS TODAY 62.50

TICKET: 20937794

DATE: 1/31/2018
 TIME: 10:19

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Dawn Spataro

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR



~~Phil's CC~~

20937835

DISPATCH: JASON'S CC 18R002

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 36302A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	72,820 lb	36.41 UT
TARE	28,160 lb	14.08 UT
NET	44,660 lb	22.33 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
4	91.23	82.76

TICKET: 20937835

DATE: 1/31/2018

TIME: 11:22

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Bruce Turner

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

JASON'S CC



20937840 18R002
ERM

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 54935A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	73,740 lb	36.87 UT
TARE	29,160 lb	14.58 UT
NET	44,580 lb	22.29 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
5	113.52	102.98

TICKET: 20937840

DATE: 1/31/2018

TIME: 11:29

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Bruce Turner

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROAD. ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER.



Phil's CC

20937877

18R002

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 36302A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	72,720 lb	36.36 UT
TARE	28,160 lb	14.08 UT
NET	44,560 lb	22.28 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
6	135.80	123.19

TICKET: 20937877

DATE: 1/31/2018

TIME: 12:37

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Bruce Turner

1 TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
E ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
A ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR
A ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN
C DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO
T THE CUSTOMER



JASON'S CC

20937878 18P002

ERM

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 54935A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	73,660 lb	36.83 UT
TARE	29,160 lb	14.58 UT
NET	44,500 lb	22.25 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
7	158.05	143.37

TICKET: 20937878

DATE: 1/31/2018

TIME: 12:41

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Bruce Turner

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROAD. ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER.

Phil - Pd cc



20937904

18R002

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 36302A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	73,120 lb	36.56 UT
TARE	28,160 lb	14.08 UT
NET	44,960 lb	22.48 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
8	180.53	163.76

TICKET: 20937904

DATE: 1/31/2018

TIME: 13:34

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Dawn Spataro

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR



JASON'S CC

20937905

18R00Z
ERM

DISPATCH:

CUSTOMER: 82530 AES Remedial Contracting, LLC.

SALES ORDER: Q324389

PURCHASE ORDER:

TRUCK: 54935A

HAULER: 888888 FOB Vendor

DELIVERY METHOD: Pickup ZONE CODE 60147-3

TEM CODE: 1033008

DESCRIPTION: ITEM 4

DELIVERY ADDRESS:

TANK REMOVAL - 523 RTE 303 ORANGEBURG

INSTRUCTIONS:

Tank Removal - 523 Rte 303 Orangeburg

Tank Removal - 523 Rte 303 Orangeburg

OFF JOB TIME

GROSS	74,140 lb	37.07 UT
TARE	29,160 lb	14.58 UT
NET	44,980 lb	22.49 UT

ON JOB TIME

# OF LOADS	US TONS TODAY	METRIC TONS TODAY
9	203.02	184.16

TICKET: 20937905

DATE: 1/31/2018

TIME: 13:39

DRIVER SIGNATURE

CUSTOMER SIGNATURE

LOCATION: 00209 West Nyack Quarry

SOURCE: 8-8R FACILITY ID:

SCALE: 1 WEIGHMASTER: Dawn Spataro

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF
 ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF
 ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR

APPENDIX E
PHOTO LOG



Photograph: 1 | Breaking of concrete



Photograph: 2 | Exposed fill ports



Avery Dennison
Tank Closure 524 Route 303, Orangeburg, NY
 ERM Project Number 0438688

Date: 1/11/18 – 2/1/18



Photograph: 3 | Excavated tank



Photograph: 4 | Excavated tank





Photograph: 5 | Groundwater experienced in excavation



Photograph: 6 | Excavating pipe run





Photograph: 7 | Exposed pipes in pipe run



Photograph: 8 | Pipe entrance to building





Photograph: 9 | Sump in building and sample location



Photograph: 10 | Excavating grave



Avery Dennison
Tank Closure 524 Route 303, Orangeburg, NY
 ERM Project Number 0438688

Date: 1/11/18 – 2/1/18



Photograph: 11 Temporary stockpile and backfill for re-use



Photograph: 12 Pipe run being backfilled over demarcation layer





Photograph: 13 Backfill in tamped lifts



Photograph: 14 Topsoil over backfill



Avery Dennison
Tank Closure 524 Route 303, Orangeburg, NY
 ERM Project Number 0438688

Date: 1/11/18 – 2/1/18



Photograph: 15 Hay over topsoil



Photograph: 16 Site complete

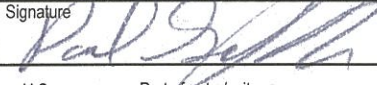
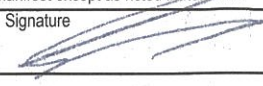


Avery Dennison
Tank Closure 524 Route 303, Orangeburg, NY

ERM Project Number 0438688

Date: 1/11/18 – 2/1/18

APPENDIX F
WASTE MANIFESTS

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 056 303 266	2. Page 1 of 1	3. Emergency Response Phone (800) 839-3975	4. Manifest Tracking Number 012565173 FLE		
5. Generator's Name and Mailing Address 524 ROUTE 303 ORANGEBURG, NY 10962		Generator's Site Address (if different than mailing address) AVERY DENNISON					
6. Transporter 1 Company Name Environmental Transport Group Inc.		U.S. EPA ID Number NJD000692061					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111		U.S. EPA ID Number MID 048 090 633					
Facility's Phone: (800) 592-5489							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. NA3077, Hazardous waste, solid, n.o.s. (U159), 9, PGIII, ERG #171	001	CM	10	T	U159	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. G180020WD1 / Soil							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Paul Gallagher		Signature 		Month 7		Day 24	
				Year 18			
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Adam Gzieskowski		Signature 		Month 08		Day 01	
				Year 18			
Transporter 2 Printed/Typed Name		Signature		Month		Day	
				Year			
18. Discrepancy							
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Actual weight 770 lbs per 1000 Buckles of Heritage BB 8/10/18							
18b. Alternate Facility (or Generator)		U.S. EPA ID Number					
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month		Day	
				Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Andrew C. Brown		Signature 		Month 8		Day 8	
				Year 18			

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
 420 TORNE VALLEY ROAD HILLBURN, NY 10931
 PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE
 Clarkstown

HAULER ID
 STERLING

BILL TO STERLING				BILL TO STERLING CARTING INC.				BILL TO 99 Sterling Mine Road Sloatsburg, NY 10974			
SITE 02	DATE 01/26/18	ENTRY TIME 07:49	OPER ELA	EXIT TIME 08:05	OPER TJM	GROSS WEIGHT 46740		TARE WEIGHT 37840		NET WEIGHT 8900	
VEHICLE/TRAILER # 02-4955		VEHICLE TYPE Rolloff 20 yd		TICKET NUMBER 2394543		MANIFEST#/BOL		C.C TYPE/FACILITY Clarkstown Con		REFERENCE AT272D	
DESCRIPTION CONCRETE				QTY 4.45	UNITS TN	RATE	AMOUNT			ORIGIN Orangetown	
C.C. APPROVAL: 06167G 7 - Token				C.C. HOLDER NAME:				C.C. NUMBER			
YES		NO		WAX		RECYCLE		REBATE			
						GARBAGE		MIX		OTHER	
MRF SIGNATURE											

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction, the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
 Note:

SIGNATURE

TOTAL



99 STERLING MINE ROAD
SLOATSBURG, NY 10974
Phone: 845-753-8686
Fax: 845-753-9011

Service Dispatch Ticket

DATE:	ORDER NO:
01/09/2018	543058

SERVICE DETAILS

SERVICE LOG
AES REMEDIAL
524 ROUTE 303
ORANGEBURG, NY 10962
860-818-0292
Acct No: 10931200

Employee: UNASSIGNED
Vehicle: UNASSIGNED
PO Number:
Destination: STERLING RECYCLING INC
Sub-Contractor:
Container In:
Container Out:

Code	Units	Service
2139	1.00	20 YD CO DEL

Instructions: DELIVER AFTER 10am.
BACK OF BUILDING

Customer agrees to pay and all fines incurred by Sterling as a result of its containers being overweight or overfilled by the customer. Customer shall be responsible for all damage to Sterling's equipment while in the customer's possession and/or control. Customer shall defend, indemnify and save Sterling harmless from suits, actions, damages, liability and expense in conjunction with any all losses. Sterling shall not be responsible or liable at any time for any loss or damage incurred by customer after crossing the customer's curb line, driveway, and/or property. Customer agrees to pay all costs and expenses relating to the enforcement or preservation of Sterling's rights under this agreement including reasonable attorney fees.

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
420 TORNE VALLEY ROAD HILLBURN, NY 10931
PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE

Clarkstown

HAULER ID

STERLING

BILL TO
STERLING

BILL TO
STERLING CARTING INC.

BILL TO
99 Sterling Mine Road
Sloatsburg, NY 10974

SITE	DATE	ENTRY TIME	OPER	EXIT TIME	OPER	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
02	01/10/18	12:44	HFG	12:55	HFG	77780	36620	41160
VEHICLE/TRAILER #	VEHICLE TYPE	TICKET NUMBER	MANIFEST#/BOL	C.C TYPE/FACILITY	REFERENCE			
02-4955	Rolloff 20 yd	2391801		Clarkstown Con	AT272D			
DESCRIPTION	QTY	UNITS	RATE	AMOUNT	ORIGIN			
CONCRETE	20.58	TN			Orangetown			

C.C. APPROVAL: 05615G
7 - Token

C.C. HOLDER NAME:

C.C. NUMBER

RECYCLE			REBATE		
YES	NO	WAX	GARBAGE	MIX	OTHER

MRF SIGNATURE

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction, the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
Note:

SIGNATURE

TOTAL



99 STERLING MINE ROAD
SLOATSBURG, NY 10974
Phone: 845-753-6666
Fax: 845-753-9011

G, INC.

Service Dispatch Ticket

DATE:	ORDER NO:
01/10/2018	543120

SERVICE DETAILS

SERVICE LOCATION:

AES REMEDIAL
524 ROUTE 303
ORANGEBURG, NY 10962
860-818-0292
Acct No: 10931200

Employee: UNASSIGNED
Vehicle: UNASSIGNED
PO Number:
Destination: STERLING RECYCLING, INC
Sub-Contractor:
Container In:
Container Out: 20-14A
20-26

Code	Units	Service
2120	1.00	20 YD CO SWI

Instructions:

Customer agrees to pay and all fines incurred by Sterling as a result of its containers being overweight or overfilled by the customer. Customer shall be responsible for all damage to Sterling's equipment while in the customer's possession and/or control. Customer shall defend, indemnify and save Sterling harmless from suits, actions, damages, liability and expense in conjunction with any all losses. Sterling shall not be responsible or liable at any time for any loss or damage incurred by customer after crossing the customer's curb line, driveway, and/or property. Customer agrees to pay all costs and expenses relating to the enforcement or preservation of Sterling's rights under this agreement including reasonable attorney fees.

Customer Signature: _____

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
420 TORNE VALLEY ROAD HILLBURN, NY 10931
PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE
Clarkstown

HAULER ID
STERLING

BILL TO STERLING				BILL TO STERLING CARTING INC.				BILL TO 99 Sterling Mine Road Sloatsburg, NY 10974			
SITE 02	DATE 01/16/18	ENTRY TIME 07:22	OPER TJM	EXIT TIME 07:38	OPER TJM	GROSS WEIGHT 77860	TARE WEIGHT 37000	NET WEIGHT 40860			
VEHICLE/TRAILER # 02-4955		VEHICLE TYPE Rolloff 20 yd		TICKET NUMBER 2392583		MANIFEST#/BOL		C.C TYPE/FACILITY Clarkstown Con		REFERENCE AT272D	
DESCRIPTION CONCRETE				QTY 20.43	UNITS TN	RATE	AMOUNT	ORIGIN Orangetown			
C.C. APPROVAL: 043596 7 - Token				C.C. HOLDER NAME:				C.C. NUMBER			
RECYCLE				REBATE							
YES	NO	WAX	GARBAGE	MIX	OTHER	MRF SIGNATURE					

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
Note:

SIGNATURE _____

TOTAL

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99



99 STERLING MINE ROAD
SLOATSBURG, NY 10974
Phone: 845-753-6666
Fax: 845-753-9011

Service Dispatch Ticket

DATE:	ORDER NO:
01/09/2018	543057

SERVICE DETAILS

AES REMEDIAL
524 ROUTE 303
ORANGEBURG, NY 10962
860-818-0292
Acct No: 10931200

Employee: UNASSIGNED
Vehicle: UNASSIGNED
PO Number:
Destination: STERLING RECYCLING INC
Sub-Contractor:
Container In:
Container Out:

Code	Units	Service
2139	1.00	20 YD CO DEL

Instructions: DELIVER AFTER 10am
BACK OF BUILDING

Customer agrees to pay and all fines incurred by Sterling as a result of its containers being overweight or overfilled by the customer. Customer shall be responsible for all damage to Sterling's equipment while in the customer's possession and/or control. Customer shall defend, indemnify and save Sterling harmless from suits, actions, damages, liability and expense in conjunction with any all losses. Sterling shall not be responsible or liable at any time for any loss or damage incurred by customer after crossing the customer's curb line, driveway, and/or property. Customer agrees to pay all costs and expenses relating to the enforcement or preservation of Sterling's rights under this agreement including reasonable attorney fees.

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
420 TORNE VALLEY ROAD HILLBURN, NY 10931
PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE
Clarkstown
HAULER ID
STERLING

BILL TO STERLING				BILL TO STERLING CARTING INC.				BILL TO 99 Sterling Mine Road Sloatsburg, NY 10974			
SITE 02	DATE 01/10/18	ENTRY TIME 12:11	OPER HFG	EXIT TIME 12:22	OPER TJM	GROSS WEIGHT 81840	TARE WEIGHT 36600	NET WEIGHT 45240			
VEHICLE/TRAILER # 02-4955		VEHICLE TYPE Rolloff 20 yd		TICKET NUMBER 2391785		MANIFEST#/BOL		C.C TYPE/FACILITY Clarkstown Con		REFERENCE AT272D	
DESCRIPTION CONCRETE				QTY 22.62	UNITS TN	RATE	AMOUNT	ORIGIN Orangetown			
C.C. APPROVAL: 07563G 7 - Token				C.C. HOLDER NAME:				C.C. NUMBER			
RECYCLE				REBATE							
YES	NO	WAX	GARBAGE		MIX	OTHER		MRF SIGNATURE			

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction, the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
Note:

SIGNATURE

TOTAL



99 STERLING MINE ROAD
SLOATSBURG, NY 10974
Phone: 845-753-6666
Fax: 845-753-9011

Service Dispatch Ticket

DATE:	ORDER NO:
01/10/2018	543106

SERVICE DETAILS

SERVICE LOCATION:

AES REMEDIAL
524 ROUTE 303
ORANGEBURG, NY 10962
860-818-0292
Acct No: 10931200

Employee: UNASSIGNED
Vehicle: UNASSIGNED
PO Number:
Destination: STERLING RECYCLING, INC
Sub-Contractor:
Container In:
Container Out:

Code	Units	Service
2120	1.00	20 YD CO SWI

Instructions: 9-10AM SWITCH

Customer agrees to pay and all fines incurred by Sterling as a result of its containers being overweight or overfilled by the customer. Customer shall be responsible for all damage to Sterling's equipment while in the customer's possession and/or control. Customer shall defend, indemnify and save Sterling harmless from suits, actions, damages, liability and expense in conjunction with any all losses. Sterling shall not be responsible or liable at any time for any loss or damage incurred by customer after crossing the customer's curb line, driveway, and/or property. Customer agrees to pay all costs and expenses relating to the enforcement or preservation of Sterling's rights under this agreement including reasonable attorney fees.

Customer Signature _____

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
420 TORNE VALLEY ROAD HILLBURN, NY 10931
PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE
Clarkstown

HAULER ID
STERLING

BILL TO STERLING				BILL TO STERLING CARTING INC.				BILL TO 99 Sterling Mine Road Sloatsburg, NY 10974			
SITE 02	DATE 01/16/18	ENTRY TIME 12:39	OPER HFG	EXIT TIME 12:50	OPER HFG	GROSS WEIGHT 82060	TARE WEIGHT 36700	NET WEIGHT 45360			
VEHICLE/TRAILER # 02-0854		VEHICLE TYPE Rolloff 20 yd		TICKET NUMBER 2392767		MANIFEST#/BOL		C.C TYPE/FACILITY Clarkstown Con		REFERENCE AS944H	
DESCRIPTION CONCRETE				QTY 22.68	UNITS TN	RATE	AMOUNT		ORIGIN Orangetown		
C.C. APPROVAL: 00427G 7 - Token				C.C. HOLDER NAME:				C.C. NUMBER			
RECYCLE				REBATE							
YES				NO				WAX			
GARBAGE				MIX				OTHER			
MRF SIGNATURE											

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction, the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
Note:

SIGNATURE

TOTAL

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 056 303 266		2. Page 1 of 1	3. Emergency Response Phone (800) 839-3975		4. Manifest Tracking Number 012565173 FLE		
		5. Generator's Name and Mailing Address 524 ROUTE 303 ORANGEBURG, NY 10962				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name Environmental Transport Group Inc.						U.S. EPA ID Number MSD0010692061			
7. Transporter 2 Company Name						U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111						U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
					No.	Type			
	X	1. NA3077, Hazardous waste, solid, n.o.s. (U159), 9, PGIII, ERG #171							U159
		2.							
		3.							
	4.								
14. Special Handling Instructions and Additional Information 1. G180020WDI / Sol									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Paul Gallagher					Signature <i>Paul Gallagher</i>		Month Day Year 7 2 18		
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Adam Gierzkowski					Signature <i>Adam Gierzkowski</i>		Month Day Year 08 01 18	
	Transporter 2 Printed/Typed Name					Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	Manifest Reference Number:								
	18b. Alternate Facility (or Generator) U.S. EPA ID Number								
	Facility's Phone:								
	18c. Signature of Alternate Facility (or Generator)							Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month Day Year		



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: AVERY DENNISON

524 ROUTE 303, ORANGEBURG, NY 10962

U.S. EPA ID No.: NYD056303266

Manifest:

Page - Line

1 - 01

Approval: G180020WDI

NWW

Waste Code(s): U159

Hazardous Constituents: NONE

Subcategory(s):

Certification: THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT.

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I hereby certify that all information submitted on this and all associated documents, is complete and accurate to the best of my knowledge and information.

Generator Signature:

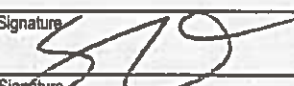
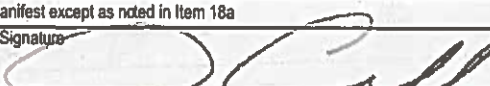
Title:

**Printed
Name:**

Date:

[Signature]
Paul Gallagher

Global Remediation Mgr.
7/24/18

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 5 6 3 0 3 2 6 6	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 001314683 VES		
5. Generator's Name and Mailing Address AVERY DENNISON 524 ROUTE 303 ORANGETOWN, NY 10962-1309 Generator's Phone: 845 480-3273		Generator's Site Address (if different than mailing address) SAME 524 Route 303 Orangetown, NY 10962-1309					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS L.L.C. 1 EDEN LANE FLANDERS, NJ 07836 Facility's Phone: 973 347-2111		U.S. EPA ID Number N J D 9 8 0 5 3 6 5 9 3					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers	11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
			No.	Type			
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (ISOPROPANOL, TOLUENE), 3, II, RQ (D001)	1	D M	400	P	F005 D035
		2.					D001 B
		3.					
	4.						
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS - Contract retained by generator confirms agency authority on initial transporter to add or substitute additional transporters on generator's behalf - 1) SOLVENTS AND WATER, APPROVAL #MARCHWUEL							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Paul Gallagher		Signature 		Month 08 Day 23 Year 18			
TRANSPORTER INTL	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:		Date leaving U.S.:		
	Transporter signature (for exports only):						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials		Signature		Month 08 Day 25 Year 18		
	Transporter 1 Printed/Typed Name Sam O'Brien		Signature 		Month 08 Day 25 Year 18		
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name		Signature		Month 08 Day 25 Year 18		
	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month 08 Day 23 Year 18			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Danica Connolly		Signature 		Month 08 Day 23 Year 18			

APPENDIX G
TANK DISPOSAL RECEIPTS



PAYMENT RECEIPT

Teplitz Metal Processing
108 West Nyack Road
Nanuet, NY 10954
845-623-0040

DMV#7104668

Receipt: 0278553 Date: 01/17/2018
Customer: 37331 Time: 08:54

AES REMEDIAL CONTRATING
RENALD JASON
4 CIANCI AVE APT 5
PLAINVILLE, CT 06062-3267
Driver's License: 089264683 CT

Ticket: 280341 Weigh In: 01/17/2018 08:32
Operator: 9 Weigh Out: 01/17/2018 08:49
Description: SHEARTANK PLASTIC CT PO

All weights in pounds. M indicates manual weight

Commodity	Gross	Tare	Net	Price	TOTAL \$
Unp. Tanks	48260	40400	7860		

of Tickets: 1

Paid by EZCash

Rounded upto nearest

TEPLITZ METAL PROCESSING
NYSDMV# 7104668



PAYMENT RECEIPT

Teplitz Metal Processing
108 West Nyack Road
Nanuet, NY 10954
845-623-0040

DMV#7104668

Receipt: 0278533

Date: 01/16/2018

Customer: 37331

Time: 14:31

AES REMEDIAL CONTRATING
RENALD JASON
4 CIANCI AVE APT 5
PLAINVILLE, CT 06062-3267

Driver's License: 089264683 CT

Ticket: 280315

Weigh In: 01/16/2018 14:12

Operator: 9

Weigh Out: 01/16/2018 14:30

Description: PO SHEAR TANK PLASTIC CO

All weights in pounds. M indicates manual weight

Commodity	Gross	Tare	Net	Price	TOTAL \$
Unp. Tanks	53120 M	39940 M	13180		

of Tickets: 1

Paid by EZCash

Rounded upto neares

TEPLITZ METAL PROCESSING
NYSDMV# 7104668



PAYMENT RECEIPT

Teplitz Metal Processing
108 West Nyack Road
Nanuet, NY 10954
845-623-0040

DMV#7104668

Receipt: 0278515 Date: 01/16/2018
Customer: 37331 Time: 12:53
AES REMEDIAL CONTRATING
RENALD JASON
4 CIANCI AVE APT 5
PLAINVILLE, CT 06062-3267
Driver's License: 089264683 CT

Ticket: 280296 Weigh In: 01/16/2018 12:39
Operator: 9 Weigh Out: 01/16/2018 12:53
Description: PO/ ShearTank,PlastiCoatd

All weights in pounds. M indicates manual weight

Commodity	Gross	Tare	Net	Price	TOTAL \$
Unp. Tanks	53000	40060	12940		

of Tickets: 1

Paid by EZCash

Rounded upto neares

TEPLITZ METAL PROCESSING
NYSDMV# 7104668