State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 02/20)

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

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

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

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

- ◯ Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ◯ Aboveground Petroleum Storage Tank System
- ◯ Dry Cleaner Facility
- ◉ Other - Describe: 3M completed Phase I/II ESA on parcels shown on Figure 1 as part of environmental due diligence for land owned by CN.

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

Date DNR Notified:

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Mark Meurette	3M Company	(715) 845-0282

Mailing Address	Email
144 Rosecrans Street, Wausau, WI 54401	mmeurette@mmm.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

Former CN/WCL Railroad Track

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.

Track right-of-way between S 1st Ave/E Sherman St, E Sherman St/W Thomas St, 150 feet south of W Thomas St

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Wausau

County	Legal Description:	WTM:
Marathon	¼ of ¼ Section , Town N, Range ◯ E ◯ W	X Y

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

3M Company

☐ A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different)	Phone Number	Email

Mailing Address	City	State	ZIP Code

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

3M Company

Contact Person Name (if different)	Phone Number	Email
Mark Meurette	(715) 845-0282	mmeurette@mmm.com

Mailing Address	City	State	ZIP Code
144 Rosecrans Street	Wausau	WI	54401

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- ☐ VOCs
  - ☐ PCE
  - ☐ TCE
  - ☐ Other Chlorinated
  - ☐ Diesel
  - ☐ Fuel Oil
  - ☐ Gasoline
  - ☐ Hydraulic Oil
  - ☐ Jet Fuel
- *(VOCs continued)*
  - ☐ Mineral Oil
  - ☐ Waste Oil
  - ☐ Petroleum-Unknown Type
- ☐ PAHs
- ☐ PCBs
- ☐ Cyanide
- ☐ Leachate
- ☐ Manure
- ☒ Metals
  - ☒ Arsenic
  - ☐ Chromium
  - ☐ Lead
  - ☐ Other: _____
- ☐ Pesticides: _____
- ☐ Fertilizer: _____
- ☐ RCRA Hazardous Waste: _____
- ☐ Other: _____
- ☐ Unknown

5. Impacts to the Environment Information

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

- ____ Air Contamination
- ____ Co-mingled (Petroleum & Non-Petroleum)
- ____ Contamination in Fractured Bedrock
- ____ Contamination Within 1 Meter of Bedrock
- ____ Contaminated Private Well
- ____ Contaminated Public Well
- ____ Contamination in Right of Way
- ____ Fire Explosion Threat
- ____ Free Product
- ____ Groundwater Contamination
- ____ Off-Site Contamination
- ____ Sanitary Sewer Contamination
- ____ Storm Sewer Contamination
- ____ Sediment Contamination
- K Soil Contamination
- ____ Soil Gas Contamination
- ____ Sub-slab Vapor Contamination
- ____ Surface Water Contamination
- ____ Within 100 ft of Private Well
- ____ Within 1000 ft of Public Well

Other (specify): _____

Contamination was discovered as a result of:

☐ Tank closure assessment Date _____
☒ Site assessment Date 09/30/2020
☐ Other - Describe: _____ Date _____

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

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

3M submitting as responsible party since 3M acquired parcels shown on Figure 1 in 11/2020. No issues with groundwater concentrations were identified. Results identified five locations exceeding NR720 WAC screening criteria in soil for arsenic only. Two of the five locations exceed background threshold values for arsenic (SB-04, SB-05). Arsenic at SB-05 is 8.6 mg/kg which is slightly higher than the background threshold value of 8 mg/kg. Presence of arsenic at SB-04 and SB-05 appears historic in nature and related to railroad operations.

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

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

☒ Does not apply.

Source

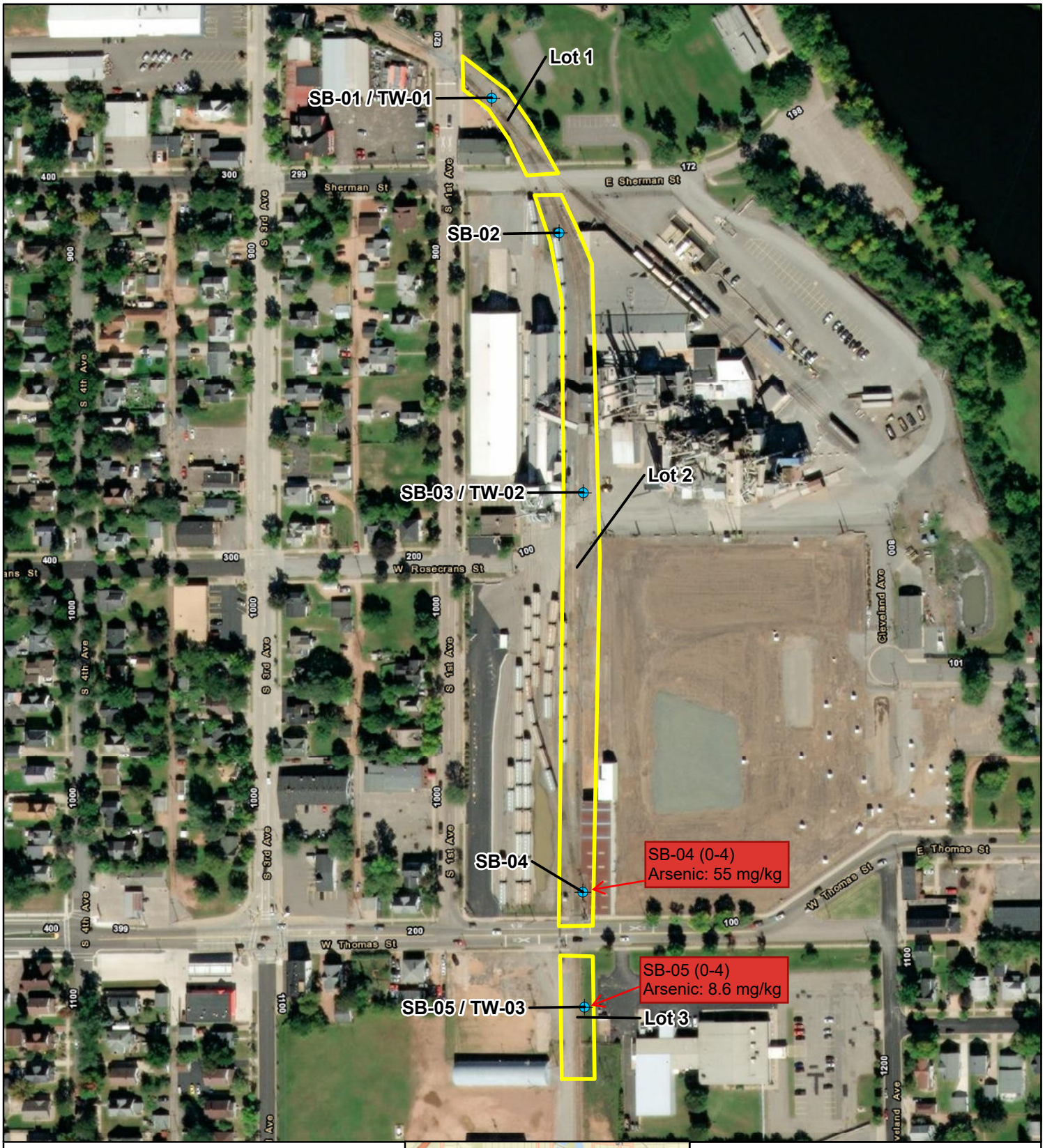
- ☐ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other (specify): _____

Cause

- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Installation Problem
- ☐ Other (does not fit any of above)
- ☐ Unknown

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

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



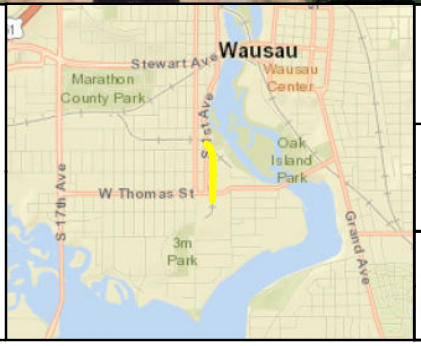
Legend

- Sampling Location
- Lot Boundary

Soil Boring ID (Depth)
Chemical Exceedance Name:
Concentration in milligram per kilogram

N

0 230 460 Feet



3M COMPANY
CN LOTS
WAUSAU, MARATHON COUNTY, WI

SUMMARY OF SOIL ANALYTICAL RESULTS

ARCADIS

FIGURE
1

Table 1
Summary of Sample Locations
3M Company
CN Lots
Wausau, WI

Location ID	Latitude	Longitude	Boring Install Date	Total Depth Drilled (ft bgs)	Soil Sample Intervals Collected (ft bgs)	Soil Sample Analysis										Groundwater Sample Analysis									
						VOC	SVOC	RCRA Metals, Hg	WI GRO, WI DRO	Total Phenols	Dioxin-Furans	pH	PCB	Pesticide	Herbicide	VOC	SVOC	RCRA Metals, Hg	WI GRO, WI DRO	Total Phenols	Dioxin-Furans	pH	PCB	Pesticide	Herbicide
Soil Boring/ Temporary Monitoring Wells																									
SB-01/ TMW-01	44°57'8.71"N	89°38'16.11"W	9/26/2020	32	0-4, 28-31	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SB-02	44°57'6.38"N	89°38'14.49"W	9/30/2020	28	0-4, 24-26	x	x	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-03/ TMW-02	44°57'1.92"N	89°38'13.93"W	9/26/2020	28	0-4, 24-27.5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SB-04	44°56'55.03"N	89°38'13.99"W	9/30/2020	28	0-4, 24-26	x	x	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-05/ TMW-03	44°56'53.05"N	89°38'13.96"W	9/30/2020	35	0-4, 29-31.5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Acronyms and Abbreviations:
"--" - not applicable
bgs - below ground surface
ft - feet
Hg - Mercury
PCB - Polychlorinated Biphenyl
RCRA - Resource Conservation and Recovery Act
SVOC - Semivolatile Organic Compound
VOC - Volatile Organic Compound

Table 2
Summary of Soil Analytical Results
3M Company
CN Lots
Wausau, WI

Chemical Name	NR720 Wisconsin Administrative Code Screening Criteria: Direct Contact Industrial	NR720 Wisconsin Administrative Code Screening Criteria: Leaching Soil to Groundwater	Background Threshold Values	Unit	Location ID: SB-01 / Sample ID: SB-01 (0-4) / Sample Date: 9/26/2020 / Sample Depth: 0-4 ft bgs	Location ID: SB-01 / Sample ID: SB-01 (28-31) / Sample Date: 9/26/2020 / Sample Depth: 28-31 ft bgs	Location ID: SB-01 / Sample ID: DUP-01 (092620) / Sample Date: 9/26/2020 / Sample Depth: 28-31 ft bgs	Location ID: SB-02 / Sample ID: SB-02 (0-4) / Sample Date: 9/30/2020 / Sample Depth: 0-4 ft bgs	Location ID: SB-02 / Sample ID: SB-02 (24-26) / Sample Date: 9/30/2020 / Sample Depth: 24-26 ft bgs	Location ID: SB-03 / Sample ID: SB-03 (0-4) / Sample Date: 9/26/2020 / Sample Depth: 0-4 ft bgs	Location ID: SB-03 / Sample ID: SB-03 (24-27.5) / Sample Date: 9/26/2020 / Sample Depth: 24-27.5 ft bgs	Location ID: SB-04 / Sample ID: SB-04 (0-4) / Sample Date: 9/30/2020 / Sample Depth: 0-4 ft bgs	Location ID: SB-04 / Sample ID: SB-04 (24-26) / Sample Date: 9/30/2020 / Sample Depth: 24-26 ft bgs	Location ID: SB-05 / Sample ID: SB-05 (0-4) / Sample Date: 9/30/2020 / Sample Depth: 0-4 ft bgs	Location ID: SB-05 / Sample ID: SB-05 (29-31.5) / Sample Date: 9/30/2020 / Sample Depth: 29-31.5 ft bgs
Dioxin/Furans (Method EPA 1613B)															
1,2,3,4,6,7,8-HpCDD	2190	--	--	pg/g	21 B	0.46 JB	0.95 JqB	NA	NA	67 B	3.5 JB	NA	NA	230 B	0.11 JB
1,2,3,4,6,7,8-HpCDF	2220	--	--	pg/g	6.5 B	0.18 JqB	0.43 JB	NA	NA	8.2 B	0.39 JqB	NA	NA	69 B	0.18 JqB
1,2,3,4,7,8,9-HpCDF	2220	--	--	pg/g	0.71 JqB	< 0.022	0.21 JqB	NA	NA	0.66 JB	< 0.030	NA	NA	3.1 J	< 0.035
1,2,3,4,7,8-HxCDD	223	--	--	pg/g	0.85 JB	0.27 JB	0.29 JqB	NA	NA	0.46 JB	< 0.033	NA	NA	2.7 J	0.20 Jq
1,2,3,4,7,8-HxCDF	220	--	--	pg/g	0.85 J	< 0.041	0.20 J	NA	NA	0.32 Jq	< 0.055	NA	NA	4.4 J	< 0.070
1,2,3,6,7,8-HxCDD	223	--	--	pg/g	1.4 J	< 0.034	0.18 Jq	NA	NA	1.9 J	< 0.042	NA	NA	9.3	< 0.048
1,2,3,6,7,8-HxCDF	220	--	--	pg/g	0.89 J	< 0.036	0.23 Jq	NA	NA	0.33 J	< 0.049	NA	NA	3.7 J	< 0.062
1,2,3,7,8,9-HxCDD	223	--	--	pg/g	0.91 JB	< 0.028	< 0.030	NA	NA	0.87 JB	0.082 JB	NA	NA	5.2 J	< 0.044
1,2,3,7,8,9-HxCDF	223	--	--	pg/g	0.44 J	< 0.028	0.29 J	NA	NA	< 0.13	< 0.042	NA	NA	< 0.41	0.049 J
1,2,3,7,8-PeCDD	22.3	--	--	pg/g	< 0.15	< 0.097	< 0.11	NA	NA	< 0.14	< 0.10	NA	NA	0.99 Jq	< 0.047
1,2,3,7,8-PeCDF	744	--	--	pg/g	< 0.18	< 0.049	< 0.060	NA	NA	< 0.094	< 0.050	NA	NA	< 0.58	0.072 Jq
2,3,4,6,7,8-HxCDF	223	--	--	pg/g	0.82 Jq	< 0.030	0.20 J	NA	NA	0.33 J	< 0.041	NA	NA	3.0 J	< 0.037
2,3,4,7,8-PeCDF	74.4	--	--	pg/g	0.52 Jq	< 0.053	< 0.071	NA	NA	< 0.10	< 0.059	NA	NA	1.6 J	< 0.038
2,3,7,8-TCDD	21.8	30	--	pg/g	< 0.21	< 0.15	< 0.15	NA	NA	< 0.18	< 0.13	NA	NA	0.35 Jq	< 0.038
2,3,7,8-TCDF	219	--	--	pg/g	0.61 J	< 0.071	< 0.084	NA	NA	< 0.11	< 0.068	NA	NA	0.78 JB	0.066 JB
OCDD	74400	--	--	pg/g	130 B	2.7 JB	6.7 JB	NA	NA	850 B	41 B	NA	NA	1800 B	1.3 JB
OCDF	74400	--	--	pg/g	13 B	0.79 JB	1.1 JB	NA	NA	40 B	1.8 JB	NA	NA	140 B	0.52 JBq
Total HpCDD	--	--	--	pg/g	40 B	0.98 JB	2.1 JqB	NA	NA	360 B	21 B	NA	NA	560 B	0.28 JBq
Total HpCDF	--	--	--	pg/g	17 qB	0.32 JqB	0.98 JqB	NA	NA	31 B	1.3 JqB	NA	NA	180 B	0.18 JBq
Total HxCDD	--	--	--	pg/g	7.2 B	0.27 JB	0.46 JqB	NA	NA	12 qB	0.43 JqB	NA	NA	68	0.20 Jq
Total HxCDF	--	--	--	pg/g	16 q	< 0.041	0.91 Jq	NA	NA	7.9 q	0.21 Jq	NA	NA	96	< 0.051
Total PeCDD	--	--	--	pg/g	< 0.26	< 0.097	< 0.11	NA	NA	< 0.14	< 0.10	NA	NA	21 q	< 0.047
Total PeCDF	--	--	--	pg/g	17 q	< 0.053	< 0.21	NA	NA	1.0 Jq	< 0.17	NA	NA	69	0.16 Jq
Total TCDD	--	--	--	pg/g	2.2	< 0.15	< 0.15	NA	NA	< 0.18	< 0.13	NA	NA	13 q	< 0.038
Total TCDF	--	--	--	pg/g	5.3 q	< 0.071	< 0.084	NA	NA	< 0.11	< 0.068	NA	NA	23 qB	0.11 JqB
Total Phenols (Method MCAWW 420.4)															
Phenolics, Total	--	--	--	mg/kg	2.5	1.3	0.72	NA	NA	< 0.42	0.52	NA	NA	0.66	< 0.40
RCRA Metals (Method SW846 6020A/6010C/7470A/7471B)															
Arsenic	3	0.584	8	mg/kg	**7.7**	**0.99**	**1.2**	**3.3**	**1.1**	**1.8**	**1**	**55**	**0.63 J**	**8.6**	**1.7**
Barium	100000	164.8	364	mg/kg	53	18	17	120	32	59	22 V	95	12	95	56
Cadmium	985	0.752	1	mg/kg	< 0.038	< 0.034	< 0.033	**0.76**	< 0.033	0.079 J	< 0.035	0.38	< 0.032	0.45	< 0.036
Chromium	--	360000	44	mg/kg	15	11	11	69	20	13	18 F1	24	6.9	24	23
Lead	800	27	52	mg/kg	**35**	1.6	1.7	**41**	4.2	8.9	1.7	**48**	1.1	**87**	3.7
Selenium	5840	0.52	--	mg/kg	**1.9**	< 0.56	< 0.54	**0.94 J**	**0.68 J**	< 0.55	< 0.57	**1.0 J**	< 0.52	**0.81 J**	< 0.59
Silver	5840	0.849	--	mg/kg	< 0.13	< 0.12	< 0.12	0.34 J	0.22 J	< 0.12	< 0.13	0.19 J	0.16 J	0.24 J	0.34 J
Mercury	3.13	0.208	--	mg/kg	0.023	< 0.0051	< 0.0052	0.021	< 0.0052	0.013 J	< 0.0053	0.029	< 0.0053	0.061	< 0.0058
Pesticides (Method SW846 8081B)															
4,4'-DDE	9380	--	--	µg/kg	< 1.5	< 0.28	< 0.28	NA	NA	< 0.30	< 0.28	NA	NA	4	< 0.29
4,4'-DDT	8530	--	--	µg/kg	< 4.8	< 0.90	< 0.89	NA	NA	< 0.94	< 0.89 F1	NA	NA	21	< 0.92
cis-Chlordane	--	--	--	µg/kg	< 4.6	< 0.86	< 0.86	NA	NA	< 0.91	< 0.86	NA	NA	2.1	< 0.88
Endrin aldehyde	--	--	--	µg/kg	< 1.5	< 0.29	< 0.29	NA	NA	< 0.30	< 0.28	NA	NA	3.4	< 0.29
Heptachlor epoxide	338	8.16	--	µg/kg	< 3.2	< 0.61	< 0.60	NA	NA	< 0.64	< 0.60	NA	NA	2.9	< 0.62
trans-Chlordane	--	--	--	µg/kg	< 2.4	< 0.45	< 0.44	NA	NA	< 0.47	< 0.44	NA	NA	1.8	< 0.46
PCBs (Method SW846 8082A)															
PCB-1260	1000	--	--	µg/kg	< 8.9	< 8.4	< 8.3	NA	NA	< 8.8	< 8.3	NA	NA	52 / 50	< 8.6
PCBs, Total	967	9.384	--	µg/kg	< 3.5	< 3.3	< 3.2	NA	NA	< 3.4	< 3.2	NA	NA	**52 / 50**	< 3.3

Table 2
Summary of Soil Analytical Results
3M Company
CN Lots
Wausau, WI

Chemical Name	NR720 Wisconsin Administrative Code Screening Criteria: Direct Contact Industrial	NR720 Wisconsin Administrative Code Screening Criteria: Leaching Soil to Groundwater	Background Threshold Values	Unit	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth
					SB-01	SB-01 (0-4)	9/26/2020	0-4 ft bgs	SB-01	SB-01 (28-31)	9/26/2020	28-31 ft bgs	SB-01	DUP-01 (092620)	9/26/2020	28-31 ft bgs	SB-02	SB-02 (0-4)	9/30/2020	0-4 ft bgs	SB-02	SB-02 (24-26)	9/30/2020	24-26 ft bgs	SB-03	SB-03 (0-4)	9/26/2020	0-4 ft bgs	SB-03	SB-03 (24-27.5)	9/26/2020	24-27.5 ft bgs
VOCs (Method SW846 8260B)																														
1,2,4-Trimethylbenzene	219000	--	--	µg/kg	54 J	< 32			< 35				210				47 J				< 33				< 32					
1,3,5-Trimethylbenzene	182000	--	--	µg/kg	< 41	< 34			< 38				56 J				< 34				< 35				< 34					
Benzene	7070	5.12	--	µg/kg	< 16	< 13			< 14				**130 B**				**32 B**				< 13				< 13					
Ethylbenzene	35400	1570	--	µg/kg	< 20	< 16			< 18				140				36				< 17				< 17					
Isopropylbenzene	268000	--	--	µg/kg	< 41	< 34			< 38				98 J				< 34				< 35				< 35					
n-Butylbenzene	108000	--	--	µg/kg	< 42	< 35			< 38				46 J				< 34				< 36				< 35					
N-Propylbenzene	264000	--	--	µg/kg	< 44	< 37			< 41				140				< 37				< 38				< 37					
Toluene	818000	1107.2	--	µg/kg	23 J	< 13			< 15				560				120				< 14				< 13					
Xylenes, Total	260000	3960	--	µg/kg	79	< 20			< 22				780				170				< 20				< 20					
SVOCs (Method SW846 8270D)																														
1-Methylnaphthalene	72700	--	--	µg/kg	190 J	< 8.3			< 8.3				120				87				16 J				< 8.3 F1					
2-Methylnaphthalene	3010000	--	--	µg/kg	200 J	< 6.3			< 6.2				160 *				110 *				20 J				< 6.3 F1					
Acenaphthene	45200000	--	--	µg/kg	< 33	< 6.1			< 6.1				16 J				< 6.1				< 6.4				< 6.1					
Acenaphthylene	--	--	--	µg/kg	150 J	< 4.5			< 4.5				29 J				< 4.5				16 J				< 4.5					
Anthracene	100000000	196949.153	--	µg/kg	110 J	< 5.7			< 5.7				68				< 5.7				24 J				< 5.7					
Benzo[a]anthracene	20800	--	--	µg/kg	370	7.3 J			< 4.6				280				18 J				42				< 4.6					
Benzo[a]pyrene	2110	470	--	µg/kg	460	7.1 J			< 6.5				200				15 J				50				< 6.6					
Benzo[b]fluoranthene	21100	478.088	--	µg/kg	**640**	9.0 J			7.5 J				370				14 J				97				< 7.3					
Benzo[g,h,i]perylene	--	--	--	µg/kg	250	< 11			< 11				120				33 J				41				< 11 F1					
Benzo[k]fluoranthene	211000	--	--	µg/kg	220	10 J			< 10				110				11 J				32 J				< 10					
Benzoic acid	100000000	--	--	µg/kg	2400 J	< 340			430 J				< 350				< 340				460 J				430 JF1					
Bis(2-ethylhexyl) phthalate	164000	2880	--	µg/kg	< 330	< 62			< 62				< 64				< 62				< 65				< 62					
Chrysene	2110000	144.223	--	µg/kg	**430**	9.7 J			< 9.2				**320**				20 J				56				< 9.3					
Dibenz(a,h)anthracene	2110	--	--	µg/kg	70 J	< 6.6			< 6.5				52				< 6.6				9.4 J				< 6.6					
Dibenzofuran	1040000	--	--	µg/kg	< 210	< 40			< 40				49 J				< 40				< 42				< 40					
Fluoranthene	30100000	88877.805	--	µg/kg	580	13 J			7.2 J				400				20 J				77				< 6.3					
Fluorene	30100000	14829.932	--	µg/kg	< 26	< 4.8			< 4.8				27 J				16 J				< 5.0				< 4.8					
Indeno[1,2,3-cd]pyrene	21100	--	--	µg/kg	230	< 8.8			< 8.8				81				< 8.8				34 J				< 8.8					
Naphthalene	24100	658.182	--	µg/kg	170 J	< 5.2			< 5.2				170				96				14 J				< 5.2 F1					
Phenanthrene	--	--	--	µg/kg	480	6.8 J			< 4.7				270				48				32 J				< 4.7					
Pyrene	22600000	54545.455	--	µg/kg	550	12 J			7.1 J				450				21 J				78				< 6.8					
pH (Method SW846 9045D)																														
pH	--	--	--	S.U.	5.6	7.1			7.6				NA				NA				7.4				8.1					
WI DRO/WI GRO (Method WI-DRO, WI-GRO)																														
WI DRO (C10-C28)	--	--	--	mg/kg	21 B	4.7 B			4.8 B				NA				NA				11 B				5.0 B					
WI GRO (C5-C10)	--	--	--	mg/kg	12	1.6 J			< 0.030				NA				NA				1.8 J				< 1.4					

Chemical Name	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth	Location ID	Sample ID	Sample Date	Sample Depth
	SB-04	SB-04 (0-4)	9/30/2020	0-4 ft bgs	SB-04	SB-04 (24-26)	9/30/2020	24-26 ft bgs	SB-05	SB-05 (0-4)	9/30/2020	0-4 ft bgs	SB-05	SB-05 (29-31.5)	9/30/2020	29-31.5 ft bgs
VOCs (Method SW846 8260B)																
1,2,4-Trimethylbenzene		57 J				< 35				< 39				< 32		
1,3,5-Trimethylbenzene		< 41				< 37				< 41				< 34		
Benzene		**48 B**				< 14				< 16				< 13		
Ethylbenzene		< 20				< 18				< 20				< 16		
Isopropylbenzene		< 41				< 37				< 41				< 35		
n-Butylbenzene		< 41				< 38				< 42				< 35		
N-Propylbenzene		< 44				< 40				< 45				< 37		
Toluene		130				< 14				39				< 13		
Xylenes, Total		150				< 21				110				< 20		
SVOCs (Method SW846 8270D)																
1-Methylnaphthalene		58 J				< 8.3				35 J				< 8.1		
2-Methylnaphthalene		80 *				< 6.2 *				46 J*				< 6.1 *		
Acenaphthene		< 6.4				< 6.1				6.9 J				< 6.0		
Acenaphthylene		27 J				< 4.5				33 J				< 4.4		
Anthracene		39				< 5.6				45				< 5.6		
Benzo[a]anthracene		140				< 4.5				170				< 4.5		
Benzo[a]pyrene		150				< 6.5				190				< 6.5		
Benzo[b]fluoranthene		320				< 7.3				370				< 7.2		
Benzo[g,h,i]perylene		110				< 11				120				< 11		
Benzo[k]fluoranthene		88				< 10				130				< 9.8		
Benzoic acid		1500 J				< 340				490 J				< 330		
Bis(2-ethylhexyl) phthalate		930				< 62				**4600**				< 61		
Chrysene		**240**				< 9.2				**240**				< 9.1		
Dibenz(a,h)anthracene		46				< 6.5				43				< 6.4		
Dibenzofuran		< 42				< 40				< 42				< 39		
Fluoranthene		370				< 6.3				470				< 6.2		
Fluorene		19 J				< 4.8				22 J				< 4.7		
Indeno[1,2,3-cd]pyrene		75				< 8.8				82				< 8.6		
Naphthalene		51				< 5.2				37				< 5.1		
Phenanthrene		130				< 4.7				200				< 4.6		
Pyrene		310				< 6.7				360				< 6.6		
pH (Method SW846 9045D)																
pH		NA				NA				7.6				7.7		
WI DRO/WI GRO (Method WI-DRO, WI-GRO)																
WI DRO (C10-C28)		NA				NA				29 B				6.2 B		
WI GRO (C5-C10)		NA				NA				4.9				< 1.4		

Qualifier Definitions:

* - LCS or LCSD outside acceptance limits
B - compound found in blank and sample
q - Result estimated maximum possible concentration, quantitated using theoretical ion ratio, measured io ratio does not meet qualitative identification criteria, indicates possible interference
< - Result < MDL
V - Serial dilution exceeds control limits
F1 - MS and/or MSD recovery exceeds control limits
F2 - MS/MSD RPD exceeds control limits
J - Result < RL but ≥ to MDL, concentration is approximate value

Acronyms and Abbreviations:

"--" - no screening criteria
ft bgs - feet below ground surface
ID - identification
LCS - laboratory control sample
LCSD - laboratory control sample duplicate
MDL - method detection limit
mg/kg - milligram per kilogram
RL - reporting limit
NA - not analyzed
pg/g - picogram per gram
RL - reporting limit
S.U. - standard units
SVOCs - Semivolatile organic compounds
µg/kg - microgram per kilogram
VOCs - Volatile organic compounds

Notes:

Result exceeds Leaching Soil to Groundwater screening criteria
Table only shows chemicals with a detection
Result exceeds all NR720 WAC screening criteria outlined
Result exceeds all NR720 WAC screening criteria and Background Threshold Value outlined

Table 3
Summary of Groundwater Analytical Results
3M Company
CN Lots
Wausau, WI

Chemical Name	NR140 Wisconsin Administrative Code Screening Criteria		Location ID	TW-01	TW-02	TW-02	TW-03
			Sample ID	TW-01 (092720)	TW-02 (092720)	DUP-01 (092720)	TW-03 (093020)
	Enforcement Standard	Preventive Action Limit	Sample Date	9/27/2020	9/27/2020	9/27/2020	9/30/2020
			Unit				
Dioxin/Furans (Method EPA 1613B)							
1,2,3,4,6,7,8-HpCDD	--	--	pg/L	1.3 JqB	11 JB	1.3 JB	1.5 JBq
1,2,3,4,6,7,8-HpCDF	--	--	pg/L	< 0.26	17 JB	1.4 JqB	0.92 JBq
1,2,3,4,7,8,9-HpCDF	--	--	pg/L	0.81 JqB	14 JB	0.84 JB	0.80 JBq
1,2,3,4,7,8-HxCDD	--	--	pg/L	2.3 JB	6.9 JB	2.2 JB	1.9 JBq
1,2,3,4,7,8-HxCDF	--	--	pg/L	< 0.59	6.1 JB	< 0.47	< 0.66
1,2,3,6,7,8-HxCDD	--	--	pg/L	< 0.82	5.5 JB	< 0.80	< 0.42
1,2,3,6,7,8-HxCDF	--	--	pg/L	< 0.62	6.2 JB	< 0.51	< 0.62
1,2,3,7,8,9-HxCDD	--	--	pg/L	< 0.71	5.6 JB	< 0.68	< 0.39
1,2,3,7,8,9-HxCDF	--	--	pg/L	1.0 JqB	5.9 JB	< 0.36	0.84 JBq
1,2,3,7,8-PeCDD	--	--	pg/L	< 0.56	3.6 JqB	< 0.56	< 0.52
1,2,3,7,8-PeCDF	--	--	pg/L	0.83 JB	3.7 JB	0.77 JB	< 0.37
2,3,4,6,7,8-HxCDF	--	--	pg/L	< 0.71	5.6 JB	< 0.55	< 0.37
2,3,4,7,8-PeCDF	--	--	pg/L	< 0.46	4.0 JB	< 0.42	< 0.38
2,3,7,8-TCDD	30	3	pg/L	< 0.47	< 0.44	< 0.43	1.8 JBq
2,3,7,8-TCDF	--	--	pg/L	< 0.29	1.2 JB	< 0.26	5.3 JB
OCDD	--	--	pg/L	4.7 JB	31 JB	4.6 JB	7.3 JB
OCDF	--	--	pg/L	3.1 JB	120 B	3.6 JB	3.1 JBq
Total HpCDD	--	--	pg/L	2.9 JqB	15 JB	1.3 JB	3.1 JBq
Total HpCDF	--	--	pg/L	0.81 JqB	39 JB	2.2 JqB	1.7 JBq
Total HxCDD	--	--	pg/L	2.3 JB	18 JB	2.2 JB	1.9 JBq
Total HxCDF	--	--	pg/L	1.0 JqB	24 JB	< 0.55	0.84 JBq
Total PeCDD	--	--	pg/L	< 0.56	3.6 JqB	< 0.56	< 0.52
Total PeCDF	--	--	pg/L	0.83 JB	7.7 JB	0.77 JB	< 0.39
Total TCDD	--	--	pg/L	5.2 JqB	3.8 JB	5.1 JB	8.3 JBq
Total TCDF	--	--	pg/L	< 0.29	1.2 JB	< 0.26	9.9 JBq
RCRA Metals (Method SW846 6020A/6010C/7470A/7471B)							
Arsenic	10	1	µg/L	< 0.23	0.57 J	0.84 J	0.32 J
Barium	2000	400	µg/L	28	180	180	160
Chromium	100	10	µg/L	< 1.1	3.6 J	8.4	< 1.1
Lead	15	1.5	µg/L	< 0.19	0.54	1	0.91
Selenium	50	10	µg/L	< 0.98	2.1 J	2.2 J	< 0.98
pH (Method SW846 9045D)							
pH	--	--	S.U.	6.7 HF	6.7 HF	6.7 HF	7.2 HF
WI DRO (Method WI-DRO)							
WI DRO (C10-C28)	--	--	mg/L	0.56	0.3	0.42	< 0.036

Qualifier Definitions:

B - compound found in blank and sample

HF - field parameter with holding time of 15 minutes, test performed as requested

J - Result < RL but ≥ to MDL, concentration is approximate value

q - Result estimated maximum possible concentration, quantitated using theoretical ion ratio, measured io ratio does not meet qualitative identification criteria, indicates possible interference

< - Result < MDL

Acronyms and Abbreviations:

"--" - no screening criteria

ID - identification

MDL - method detection limit

mg/L - milligram per liter

pg/L - picogram per liter

RL - reporting limit

S.U. - standard units

µg/L - microgram per liter

Notes:

Table only shows chemicals with a detection

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-188477-1
Client Project/Site: 3M Wausau, WI 30052761

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Trenna Seilheimer

Sandie Fredrick

Authorized for release by:
10/13/2020 4:05:09 PM

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

Table of Contents

Job ID: 500-188477-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-188477-1

Comments
No additional comments.

Receipt
The samples were received on 9/29/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.8º C, 5.3º C and 6.0º C.

Receipt Exceptions
Received Dioxin/Furan bottles for samples 6-8, not on COC. logged in.

GC/MS VOA
Methods 5035, WI GRO: sample vial has < 8 grams of soil in 10 ml of methanol. SB-01 (0-4) (500-188477-1), SB-01 (28-31) (500-188477-2), SB-03 (0-4) (500-188477-3), SB-03 (24-27.5) (500-188477-4), SB-03 (24-27.5) (500-188477-4[MS]), SB-03 (24-27.5) (500-188477-4[MSD]) and DUP-01 (092620) (500-188477-5)

Method 8260B: The laboratory control samples (LCSs) for 564989 and 564990 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. These analytes were biased low in the LCSs and were not detected in the associated samples; therefore, the data have been reported.SB-01 (0-4) (500-188477-1), SB-01 (28-31) (500-188477-2), SB-03 (0-4) (500-188477-3), SB-03 (24-27.5) (500-188477-4), SB-03 (24-27.5) (500-188477-4[MS]), SB-03 (24-27.5) (500-188477-4[MSD]), DUP-01 (092620) (500-188477-5), TW-02 (092720) (500-188477-6), TW-01 (092720) (500-188477-7) and DUP-01 (092720) (500-188477-8)

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

GC/MS Semi VOA
Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-564347 and analytical batch 500-564526 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Methylnaphthalene, 1-Methylnaphthalene, Hexachloroethane, Hexachlorocyclopentadiene, Hexachlorobutadiene, Naphthalene, 2-Chloronaphthalene and 4-Chlorophenyl phenyl ether.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: SB-01 (0-4) (500-188477-1). Elevated reporting limits (RLs) are provided.

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

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

GC Semi VOA
Method 8151A: The continuing calibration verification (CCV) associated with batch 500-564328 recovered above the upper control limit for 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TW-02 (092720) (500-188477-6), TW-01 (092720) (500-188477-7), DUP-01 (092720) (500-188477-8) and (CCV 500-564328/45).

Method 8081B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-564345 and analytical batch 500-564712 recovered outside control limits for the following analytes: Aldrin and Heptachlor.

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: (CCVIS 500-564714/1). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: DCB Decachlorobiphenyl Surrogate recovery for the following samples were outside control limits: TW-02 (092720) (500-188477-6) and (MB 500-564345/1-A). Tetrachloro-m-xylene Surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 500-188477-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Method WI-DRO: The method blank for preparation batch 500-565022 and analytical batch 500-565359 contained WI Diesel Range Organics (C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8151A: The continuing calibration verification (CCV) associated with batch 500-565691 recovered above the upper control limit for 2,4,5-T. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 500-565691/14) and (CCV 500-565691/2).

Method 8081B: The matrix spike duplicate (MSD) recoveries for preparation batch 500-565715 and analytical batch 500-565875 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-01 (0-4) (500-188477-1), SB-01 (28-31) (500-188477-2) and SB-03 (0-4) (500-188477-3). The reagent lot number used was: 260001.

Method 8081B: Surrogate recovery for the following sample was outside the upper control limit: SB-01 (0-4) (500-188477-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Dioxin

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD and 13C-1,2,3,7,8,9-HxCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: SB-01 (0-4) (500-188477-1), SB-01 (28-31) (500-188477-2), SB-03 (0-4) (500-188477-3), SB-03 (24-27.5) (500-188477-4), SB-03 (24-27.5) (500-188477-4[MS]), SB-03 (24-27.5) (500-188477-4[MSD]), DUP-01 (092620) (500-188477-5), (CCV 320-420643/28), (LCS 320-417456/2-A) and (MB 320-417456/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: The column performance standard mix (CPSM) associated with batch 320-420113 exceeded the 25% valley resolution requirement for 2,3,7,8-TCDD on the DB-5 column analysis. The associated samples were non-detect.

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

Metals

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

General Chemistry

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

Organic Prep

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

Dioxin Prep

Method 1613B: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 1613B_Sox_Sep_P preparation/analysis: Samples TW-02 (092720) (500-188477-6), TW-01 (092720) (500-188477-7) and DUP-01 (092720) (500-188477-8) were provided in wide-mouth amber glass bottles. Nominal volume required for method is 1.00 L. preparation batch 320-417490 Method: 1613B_Sox_Sep_P / 1613B Matrix: Aqueous

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)

Lab Sample ID: 500-188477-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	23	J	27	16	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	54	J	110	38	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	79		54	24	ug/Kg	50	☼	8260B	Total/NA
Acenaphthylene	150	J	180	24	ug/Kg	5	☼	8270D	Total/NA
Anthracene	110	J	180	30	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	370		180	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	460		180	35	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	640		180	39	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	250		180	59	ug/Kg	5	☼	8270D	Total/NA
Benzoic acid	2400	J	9100	1800	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	220		180	54	ug/Kg	5	☼	8270D	Total/NA
Chrysene	430		180	50	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	70	J	180	35	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	580		180	34	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	230		180	47	ug/Kg	5	☼	8270D	Total/NA
1-Methylnaphthalene	190	J	370	44	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	200	J	370	33	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	170	J	180	28	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	480		180	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	550		180	36	ug/Kg	5	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	12		3.2	1.6	mg/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	21	B	4.4	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
2,3,7,8-TCDF	0.61	J	1.1	0.18	pg/g	1	☼	1613B	Total/NA
2,3,4,7,8-PeCDF	0.52	J q	5.7	0.20	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.85	J B	5.7	0.043	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDD	1.4	J	5.7	0.054	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.91	J B	5.7	0.045	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.85	J	5.7	0.21	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.89	J	5.7	0.19	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.44	J	5.7	0.17	pg/g	1	☼	1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.82	J q	5.7	0.16	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	21	B	5.7	0.13	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	6.5	B	5.7	0.067	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.71	J q B	5.7	0.077	pg/g	1	☼	1613B	Total/NA
OCDD	130	B	11	0.17	pg/g	1	☼	1613B	Total/NA
OCDF	13	B	11	0.11	pg/g	1	☼	1613B	Total/NA
Total TCDD	2.2		1.1	0.21	pg/g	1	☼	1613B	Total/NA
Total TCDF	5.3	q	1.1	0.18	pg/g	1	☼	1613B	Total/NA
Total PeCDF	17	q	5.7	0.19	pg/g	1	☼	1613B	Total/NA
Total HxCDD	7.2	B	5.7	0.047	pg/g	1	☼	1613B	Total/NA
Total HxCDF	16	q	5.7	0.18	pg/g	1	☼	1613B	Total/NA
Total HpCDD	40	B	5.7	0.13	pg/g	1	☼	1613B	Total/NA
Total HpCDF	17	q B	5.7	0.072	pg/g	1	☼	1613B	Total/NA
Arsenic	7.7		1.0	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	53		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Chromium	15		1.0	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	35		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.9		1.0	0.61	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.023		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA
Phenolics, Total Recoverable	2.5		0.54	0.44	mg/Kg	1	☼	420.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-01 (0-4) (Continued)

Lab Sample ID: 500-188477-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	5.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: SB-01 (28-31)

Lab Sample ID: 500-188477-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.3	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.1	J	34	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.0	J	34	7.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	10	J	34	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	9.7	J	34	9.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	13	J	34	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.8	J	34	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	12	J	34	6.8	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	1.6	J	2.7	1.3	mg/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	4.7	B	4.1	1.6	mg/Kg	1	☼	WI-DRO	Total/NA
1,2,3,4,7,8-HxCDD	0.27	J B	4.9	0.026	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	0.46	J B	4.9	0.041	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.18	J q B	4.9	0.020	pg/g	1	☼	1613B	Total/NA
OCDD	2.7	J B	9.9	0.028	pg/g	1	☼	1613B	Total/NA
OCDF	0.79	J B	9.9	0.072	pg/g	1	☼	1613B	Total/NA
Total HxCDD	0.27	J B	4.9	0.029	pg/g	1	☼	1613B	Total/NA
Total HpCDD	0.98	J B	4.9	0.041	pg/g	1	☼	1613B	Total/NA
Total HpCDF	0.32	J q B	4.9	0.021	pg/g	1	☼	1613B	Total/NA
Arsenic	0.99		0.94	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	18		0.94	0.11	mg/Kg	1	☼	6010C	Total/NA
Chromium	11		0.94	0.47	mg/Kg	1	☼	6010C	Total/NA
Lead	1.6		0.47	0.22	mg/Kg	1	☼	6010C	Total/NA
Phenolics, Total Recoverable	1.3		0.50	0.41	mg/Kg	1	☼	420.4	Total/NA
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: SB-03 (0-4)

Lab Sample ID: 500-188477-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	16	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	24	J	35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	42		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	50		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	97		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	41		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzoic acid	460	J	1800	350	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	32	J	35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	56		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	9.4	J	35	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	77		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	34	J	35	9.2	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	16	J	72	8.7	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	20	J	72	6.5	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	14	J	35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	32	J	35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	78		35	7.1	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-03 (0-4) (Continued)

Lab Sample ID: 500-188477-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Gasoline Range Organics (C5-C10)	1.8	J	2.8	1.4	mg/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	11	B	4.3	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
1,2,3,4,7,8-HxCDD	0.46	J B	5.4	0.066	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDD	1.9	J	5.4	0.085	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.87	J B	5.4	0.069	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.32	J q	5.4	0.17	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.33	J	5.4	0.15	pg/g	1	☼	1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.33	J	5.4	0.13	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	67	B	5.4	0.61	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	8.2	B	5.4	0.12	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.66	J B	5.4	0.14	pg/g	1	☼	1613B	Total/NA
OCDD	850	B	11	0.83	pg/g	1	☼	1613B	Total/NA
OCDF	40	B	11	0.13	pg/g	1	☼	1613B	Total/NA
Total PeCDF	1.0	J q	5.4	0.098	pg/g	1	☼	1613B	Total/NA
Total HxCDD	12	q B	5.4	0.073	pg/g	1	☼	1613B	Total/NA
Total HxCDF	7.9	q	5.4	0.14	pg/g	1	☼	1613B	Total/NA
Total HpCDD	360	B	5.4	0.61	pg/g	1	☼	1613B	Total/NA
Total HpCDF	31	B	5.4	0.13	pg/g	1	☼	1613B	Total/NA
Arsenic	1.8		0.93	0.32	mg/Kg	1	☼	6010C	Total/NA
Barium	59		0.93	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.079	J	0.19	0.033	mg/Kg	1	☼	6010C	Total/NA
Chromium	13		0.93	0.46	mg/Kg	1	☼	6010C	Total/NA
Lead	8.9		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.013	J	0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: SB-03 (24-27.5)

Lab Sample ID: 500-188477-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	430	J F1	1700	340	ug/Kg	1	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	5.0	B	4.1	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
1,2,3,7,8,9-HxCDD	0.082	J B	5.1	0.034	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	3.5	J B	5.1	0.099	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.39	J q B	5.1	0.027	pg/g	1	☼	1613B	Total/NA
OCDD	41	B	10	0.081	pg/g	1	☼	1613B	Total/NA
OCDF	1.8	J B	10	0.099	pg/g	1	☼	1613B	Total/NA
Total HxCDD	0.43	J q B	5.1	0.037	pg/g	1	☼	1613B	Total/NA
Total HxCDF	0.21	J q	5.1	0.047	pg/g	1	☼	1613B	Total/NA
Total HpCDD	21	B	5.1	0.099	pg/g	1	☼	1613B	Total/NA
Total HpCDF	1.3	J q B	5.1	0.029	pg/g	1	☼	1613B	Total/NA
Arsenic	1.0		0.98	0.33	mg/Kg	1	☼	6010C	Total/NA
Barium	22	V	0.98	0.11	mg/Kg	1	☼	6010C	Total/NA
Chromium	18	F1	0.98	0.48	mg/Kg	1	☼	6010C	Total/NA
Lead	1.7		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA
Phenolics, Total Recoverable	0.52		0.50	0.41	mg/Kg	1	☼	420.4	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: DUP-01 (092620)

Lab Sample ID: 500-188477-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	7.5	J	34	7.3	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01 (092620) (Continued)

Lab Sample ID: 500-188477-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	430	J	1700	340	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	7.2	J	34	6.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	7.1	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	4.8	B	4.1	1.6	mg/Kg	1	☼	WI-DRO	Total/NA
1,2,3,4,7,8-HxCDD	0.29	J q B	5.1	0.029	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.18	J q	5.1	0.036	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.20	J	5.1	0.049	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.23	J q	5.1	0.045	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.29	J	5.1	0.040	pg/g	1	☼	1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.20	J	5.1	0.038	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	0.95	J q B	5.1	0.049	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.43	J B	5.1	0.023	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.21	J q B	5.1	0.026	pg/g	1	☼	1613B	Total/NA
OCDD	6.7	J B	10	0.040	pg/g	1	☼	1613B	Total/NA
OCDF	1.1	J B	10	0.092	pg/g	1	☼	1613B	Total/NA
Total HxCDD	0.46	J q B	5.1	0.032	pg/g	1	☼	1613B	Total/NA
Total HxCDF	0.91	J q	5.1	0.043	pg/g	1	☼	1613B	Total/NA
Total HpCDD	2.1	J q B	5.1	0.049	pg/g	1	☼	1613B	Total/NA
Total HpCDF	0.98	J q B	5.1	0.025	pg/g	1	☼	1613B	Total/NA
Arsenic	1.2		0.92	0.31	mg/Kg	1	☼	6010C	Total/NA
Barium	17		0.92	0.10	mg/Kg	1	☼	6010C	Total/NA
Chromium	11		0.92	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	1.7		0.46	0.21	mg/Kg	1	☼	6010C	Total/NA
Phenolics, Total Recoverable	0.72		0.47	0.38	mg/Kg	1	☼	420.4	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: TW-02 (092720)

Lab Sample ID: 500-188477-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.30		0.10	0.034	mg/L	1		WI-DRO	Total/NA
2,3,7,8-TCDF	1.2	J B	12	0.37	pg/L	1		1613B	Total/NA
1,2,3,7,8-PeCDD	3.6	J q B	58	0.64	pg/L	1		1613B	Total/NA
1,2,3,7,8-PeCDF	3.7	J B	58	0.55	pg/L	1		1613B	Total/NA
2,3,4,7,8-PeCDF	4.0	J B	58	0.59	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	6.9	J B	58	1.0	pg/L	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	5.5	J B	58	1.1	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.6	J B	58	1.0	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	6.1	J B	58	0.67	pg/L	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	6.2	J B	58	0.67	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	5.9	J B	58	0.50	pg/L	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	5.6	J B	58	0.77	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	11	J B	58	0.34	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	17	J B	58	0.34	pg/L	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	14	J B	58	0.38	pg/L	1		1613B	Total/NA
OCDD	31	J B	120	0.44	pg/L	1		1613B	Total/NA
OCDF	120	B	120	0.45	pg/L	1		1613B	Total/NA
Total TCDD	3.8	J B	12	0.44	pg/L	1		1613B	Total/NA
Total TCDF	1.2	J B	12	0.37	pg/L	1		1613B	Total/NA
Total PeCDD	3.6	J q B	58	0.64	pg/L	1		1613B	Total/NA
Total PeCDF	7.7	J B	58	0.57	pg/L	1		1613B	Total/NA
Total HxCDD	18	J B	58	1.1	pg/L	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-02 (092720) (Continued) — Lab Sample ID: 500-188477-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total HxCDF	24	J B	58	0.65	pg/L	1		1613B	Total/NA
Total HpCDD	15	J B	58	0.34	pg/L	1		1613B	Total/NA
Total HpCDF	39	J B	58	0.36	pg/L	1		1613B	Total/NA
Arsenic	0.57	J	1.0	0.23	ug/L	1		6020A	Total Recoverable
Barium	180		2.5	0.73	ug/L	1		6020A	Total Recoverable
Chromium	3.6	J	5.0	1.1	ug/L	1		6020A	Total Recoverable
Lead	0.54		0.50	0.19	ug/L	1		6020A	Total Recoverable
Selenium	2.1	J	2.5	0.98	ug/L	1		6020A	Total Recoverable
pH	6.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TW-01 (092720) — Lab Sample ID: 500-188477-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.56		0.10	0.033	mg/L	1		WI-DRO	Total/NA
1,2,3,7,8-PeCDF	0.83	J B	57	0.41	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.3	J B	57	0.72	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	1.0	J q B	57	0.46	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	1.3	J q B	57	0.26	pg/L	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.81	J q B	57	0.27	pg/L	1		1613B	Total/NA
OCDD	4.7	J B	110	0.33	pg/L	1		1613B	Total/NA
OCDF	3.1	J B	110	0.28	pg/L	1		1613B	Total/NA
Total TCDD	5.2	J q B	11	0.47	pg/L	1		1613B	Total/NA
Total PeCDF	0.83	J B	57	0.44	pg/L	1		1613B	Total/NA
Total HxCDD	2.3	J B	57	0.75	pg/L	1		1613B	Total/NA
Total HxCDF	1.0	J q B	57	0.59	pg/L	1		1613B	Total/NA
Total HpCDD	2.9	J q B	57	0.26	pg/L	1		1613B	Total/NA
Total HpCDF	0.81	J q B	57	0.27	pg/L	1		1613B	Total/NA
Barium	28		2.5	0.73	ug/L	1		6020A	Total Recoverable
pH	6.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: DUP-01 (092720) — Lab Sample ID: 500-188477-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	0.42		0.10	0.033	mg/L	1		WI-DRO	Total/NA
1,2,3,7,8-PeCDF	0.77	J B	58	0.36	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.2	J B	58	0.69	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	1.3	J B	58	0.24	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	1.4	J q B	58	0.23	pg/L	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.84	J B	58	0.23	pg/L	1		1613B	Total/NA
OCDD	4.6	J B	120	0.33	pg/L	1		1613B	Total/NA
OCDF	3.6	J B	120	0.29	pg/L	1		1613B	Total/NA
Total TCDD	5.1	J B	12	0.43	pg/L	1		1613B	Total/NA
Total PeCDF	0.77	J B	58	0.39	pg/L	1		1613B	Total/NA
Total HxCDD	2.2	J B	58	0.72	pg/L	1		1613B	Total/NA
Total HpCDD	1.3	J B	58	0.24	pg/L	1		1613B	Total/NA
Total HpCDF	2.2	J q B	58	0.23	pg/L	1		1613B	Total/NA
Arsenic	0.84	J	1.0	0.23	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-01 (092720) (Continued)

Lab Sample ID: 500-188477-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	180		2.5	0.73	ug/L	1		6020A	Total Recoverable
Chromium	8.4		5.0	1.1	ug/L	1		6020A	Total Recoverable
Lead	1.0		0.50	0.19	ug/L	1		6020A	Total Recoverable
Selenium	2.2	J	2.5	0.98	ug/L	1		6020A	Total Recoverable
pH	6.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8081B	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8151A	Herbicides (GC)	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
420.4	Phenolics, Total Recoverable	MCAWW	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 4500 H+ B	pH	SM	TAL CHI
1613B	Separatory Funnel (L/L) Extraction with Soxhlet Extraction of Dioxin and Furans	EPA	TAL SAC
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
8151A	Extraction (Herbicides)	SW846	TAL CHI
Distill/Phenol	Distillation, Phenolics	None	TAL CHI
HRMS-Sox	Soxhlet Extraction	EPA	TAL SAC
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-188477-1	SB-01 (0-4)	Solid	09/26/20 10:40	09/29/20 09:45	
500-188477-2	SB-01 (28-31)	Solid	09/26/20 11:15	09/29/20 09:45	
500-188477-3	SB-03 (0-4)	Solid	09/26/20 12:30	09/29/20 09:45	
500-188477-4	SB-03 (24-27.5)	Solid	09/26/20 13:00	09/29/20 09:45	
500-188477-5	DUP-01 (092620)	Solid	09/26/20 00:00	09/29/20 09:45	
500-188477-6	TW-02 (092720)	Water	09/27/20 07:15	09/29/20 09:45	
500-188477-7	TW-01 (092720)	Water	09/27/20 10:05	09/29/20 09:45	
500-188477-8	DUP-01 (092720)	Water	09/27/20 00:00	09/29/20 09:45	

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)
Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<16		27	16	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Bromobenzene	<38		110	38	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Bromochloromethane	<46		110	46	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Bromodichloromethane	<40		110	40	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Bromoform	<52		110	52	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Bromomethane	<85		320	85	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Carbon tetrachloride	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Chlorobenzene	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Chloroethane	<54		110	54	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Chloroform	<40		210	40	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Chloromethane	<34		110	34	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
2-Chlorotoluene	<34		110	34	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
4-Chlorotoluene	<38		110	38	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
cis-1,2-Dichloroethene	<44		110	44	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
cis-1,3-Dichloropropene	<45		110	45	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Dibromochloromethane	<52		110	52	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2-Dibromo-3-Chloropropane	<210	*	540	210	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2-Dibromoethane	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Dibromomethane	<29		110	29	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2-Dichlorobenzene	<36		110	36	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,3-Dichlorobenzene	<43		110	43	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,4-Dichlorobenzene	<39		110	39	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Dichlorodifluoromethane	<72		320	72	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1-Dichloroethane	<44		110	44	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2-Dichloroethane	<42		110	42	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1-Dichloroethene	<42		110	42	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2-Dichloropropane	<46		110	46	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,3-Dichloropropane	<39		110	39	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
2,2-Dichloropropane	<48		110	48	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1-Dichloropropene	<32		110	32	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Ethylbenzene	<20		27	20	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Hexachlorobutadiene	<48		110	48	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Isopropylbenzene	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Isopropyl ether	<30		110	30	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Methylene Chloride	<170		540	170	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Methyl tert-butyl ether	<42		110	42	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
n-Butylbenzene	<42		110	42	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
N-Propylbenzene	<44		110	44	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
p-Isopropyltoluene	<39		110	39	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
sec-Butylbenzene	<43		110	43	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Styrene	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
tert-Butylbenzene	<43		110	43	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1,1,2-Tetrachloroethane	<50		110	50	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1,2,2-Tetrachloroethane	<43		110	43	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Tetrachloroethene	<40		110	40	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Toluene	**23**	**J**	27	16	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
trans-1,2-Dichloroethene	<38		110	38	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
trans-1,3-Dichloropropene	<39		110	39	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2,3-Trichlorobenzene	<49		110	49	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)
Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<37		110	37	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1,1-Trichloroethane	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,1,2-Trichloroethane	<38		110	38	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Trichloroethene	<18		54	18	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Trichlorofluoromethane	<46		110	46	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2,3-Trichloropropane	<44		210	44	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,2,4-Trimethylbenzene	**54**	**J**	110	38	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
1,3,5-Trimethylbenzene	<41		110	41	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Vinyl chloride	<28		110	28	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50
Xylenes, Total	**79**		54	24	ug/Kg	☼	09/26/20 10:40	10/06/20 05:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*09/26/20 10:40*	*10/06/20 05:11*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*09/26/20 10:40*	*10/06/20 05:11*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*09/26/20 10:40*	*10/06/20 05:11*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*09/26/20 10:40*	*10/06/20 05:11*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<33		180	33	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Acenaphthylene	**150**	**J**	180	24	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Anthracene	**110**	**J**	180	30	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzo[a]anthracene	**370**		180	24	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzo[a]pyrene	**460**		180	35	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzo[b]fluoranthene	**640**		180	39	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzo[g,h,i]perylene	**250**		180	59	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzoic acid	**2400**	**J**	9100	1800	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzo[k]fluoranthene	**220**		180	54	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Benzyl alcohol	<1800		3700	1800	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Bis(2-chloroethoxy)methane	<190		910	190	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Bis(2-chloroethyl)ether	<270		910	270	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Bis(2-ethylhexyl) phthalate	<330		910	330	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Bromophenyl phenyl ether	<240		910	240	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Butyl benzyl phthalate	<350		910	350	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Carbazole	<450		910	450	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Chloroaniline	<850		3700	850	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Chloro-3-methylphenol	<620		1800	620	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Chloronaphthalene	<200		910	200	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Chlorophenol	<310		910	310	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Chlorophenyl phenyl ether	<210		910	210	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Chrysene	**430**		180	50	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Dibenz(a,h)anthracene	**70**	**J**	180	35	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Dibenzofuran	<210		910	210	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
1,2-Dichlorobenzene	<220		910	220	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
1,3-Dichlorobenzene	<200		910	200	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
1,4-Dichlorobenzene	<230		910	230	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
3,3'-Dichlorobenzidine	<250		910	250	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4-Dichlorophenol	<430		1800	430	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Diethyl phthalate	<310		910	310	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4-Dimethylphenol	<690		1800	690	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5

Client Sample ID: SB-01 (0-4)
Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1
Matrix: Solid
Percent Solids: 91.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<240		910	240	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Di-n-butyl phthalate	<280		910	280	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4,6-Dinitro-2-methylphenol	<1500		3700	1500	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4-Dinitrophenol	<3200		3700	3200	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4-Dinitrotoluene	<290		910	290	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,6-Dinitrotoluene	<360		910	360	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Di-n-octyl phthalate	<300		910	300	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Fluoranthene	**580**		180	34	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Fluorene	<26		180	26	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Hexachlorobenzene	<42		370	42	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Hexachlorobutadiene	<290		910	290	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Hexachlorocyclopentadiene	<1000		3700	1000	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Hexachloroethane	<280		910	280	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Indeno[1,2,3-cd]pyrene	**230**		180	47	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Isophorone	<200		910	200	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
1-Methylnaphthalene	**190**	**J**	370	44	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Methylnaphthalene	**200**	**J**	370	33	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Methylphenol	<290		910	290	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
3 & 4 Methylphenol	<300		910	300	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Naphthalene	**170**	**J**	180	28	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Nitroaniline	<240		910	240	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
3-Nitroaniline	<560		1800	560	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Nitroaniline	<760		1800	760	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Nitrobenzene	<45		180	45	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2-Nitrophenol	<430		1800	430	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
4-Nitrophenol	<1700		3700	1700	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
N-Nitrosodi-n-propylamine	<220		370	220	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
N-Nitrosodiphenylamine	<210		910	210	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,2'-oxybis[1-chloropropane]	<210		910	210	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Pentachlorophenol	<2900		3700	2900	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Phenanthrene	**480**		180	25	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Phenol	<400		910	400	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
Pyrene	**550**		180	36	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
1,2,4-Trichlorobenzene	<200		910	200	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4,5-Trichlorophenol	<420		1800	420	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5
2,4,6-Trichlorophenol	<620		1800	620	ug/Kg	☼	10/08/20 21:03	10/09/20 16:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*107*		*43 - 145*	*10/08/20 21:03*	*10/09/20 16:45*	*5*
2-Fluorophenol (Surr)	*108*		*31 - 166*	*10/08/20 21:03*	*10/09/20 16:45*	*5*
Nitrobenzene-d5 (Surr)	*110*		*37 - 147*	*10/08/20 21:03*	*10/09/20 16:45*	*5*
Phenol-d5 (Surr)	*105*		*30 - 153*	*10/08/20 21:03*	*10/09/20 16:45*	*5*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*10/08/20 21:03*	*10/09/20 16:45*	*5*
2,4,6-Tribromophenol (Surr)	*94*		*31 - 143*	*10/08/20 21:03*	*10/09/20 16:45*	*5*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**12**		3.2	1.6	mg/Kg	☼	09/26/20 10:40	10/03/20 17:35	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)
Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1
Matrix: Solid
Percent Solids: 91.0

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<3.8		9.3	3.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
alpha-BHC	<2.3		9.3	2.3	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
beta-BHC	<2.8		9.3	2.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
cis-Chlordane	<4.6		9.3	4.6	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
4,4'-DDD	<1.8		9.3	1.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
4,4'-DDE	<1.5		9.3	1.5	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
4,4'-DDT	<4.8		9.3	4.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
delta-BHC	<2.9		9.3	2.9	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Dieldrin	<1.2		9.3	1.2	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endosulfan I	<4.0		9.3	4.0	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endosulfan II	<1.5		9.3	1.5	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endosulfan sulfate	<1.7		9.3	1.7	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endrin	<1.3		9.3	1.3	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endrin aldehyde	<1.5		9.3	1.5	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Endrin ketone	<2.1		9.3	2.1	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
gamma-BHC (Lindane)	<2.0		9.3	2.0	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Heptachlor	<3.8		9.3	3.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Heptachlor epoxide	<3.2		9.3	3.2	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Methoxychlor	<1.8		45	1.8	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
Toxaphene	<38		91	38	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5
trans-Chlordane	<2.4		9.3	2.4	ug/Kg	☼	10/09/20 06:43	10/12/20 23:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*159*	*X*	*33 - 148*	*10/09/20 06:43*	*10/12/20 23:25*	*5*
Tetrachloro-m-xylene	*129*	*X*	*30 - 121*	*10/09/20 06:43*	*10/12/20 23:25*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1221	<8.0		18	8.0	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1232	<7.9		18	7.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1248	<7.2		18	7.2	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
PCB-1260	<8.9		18	8.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1
Polychlorinated biphenyls, Total	<3.5		18	3.5	ug/Kg	☼	10/09/20 06:43	10/09/20 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*49 - 129*	*10/09/20 06:43*	*10/09/20 23:00*	*1*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*10/09/20 06:43*	*10/09/20 23:00*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<100		360	100	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10
2,4-DB	<110		360	110	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10
Dicamba	<75		360	75	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10
Dichlorprop	<99		360	99	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10
Silvex (2,4,5-TP)	<93		360	93	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10
2,4,5-T	<89		360	89	ug/Kg	☼	10/07/20 07:34	10/09/20 13:30	10

Client Sample ID: SB-01 (0-4)

Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1

Matrix: Solid
Percent Solids: 91.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	75		25 - 120	10/07/20 07:34	10/09/20 13:30	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**21**	**B**	4.4	1.8	mg/Kg	☼	10/06/20 05:48	10/07/20 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	73		44 - 148	10/06/20 05:48	10/07/20 12:45	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.21		1.1	0.21	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
2,3,7,8-TCDF	**0.61**	**J**	1.1	0.18	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,7,8-PeCDD	<0.15		5.7	0.15	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,7,8-PeCDF	<0.18		5.7	0.18	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
2,3,4,7,8-PeCDF	**0.52**	**J q**	5.7	0.20	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,4,7,8-HxCDD	**0.85**	**J B**	5.7	0.043	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,6,7,8-HxCDD	**1.4**	**J**	5.7	0.054	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,7,8,9-HxCDD	**0.91**	**J B**	5.7	0.045	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,4,7,8-HxCDF	**0.85**	**J**	5.7	0.21	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,6,7,8-HxCDF	**0.89**	**J**	5.7	0.19	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,7,8,9-HxCDF	**0.44**	**J**	5.7	0.17	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
2,3,4,6,7,8-HxCDF	**0.82**	**J q**	5.7	0.16	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,4,6,7,8-HpCDD	**21**	**B**	5.7	0.13	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,4,6,7,8-HpCDF	**6.5**	**B**	5.7	0.067	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
1,2,3,4,7,8,9-HpCDF	**0.71**	**J q B**	5.7	0.077	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
OCDD	**130**	**B**	11	0.17	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
OCDF	**13**	**B**	11	0.11	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total TCDD	**2.2**		1.1	0.21	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total TCDF	**5.3**	**q**	1.1	0.18	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total PeCDD	<0.26		5.7	0.26	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total PeCDF	**17**	**q**	5.7	0.19	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total HxCDD	**7.2**	**B**	5.7	0.047	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total HxCDF	**16**	**q**	5.7	0.18	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total HpCDD	**40**	**B**	5.7	0.13	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1
Total HpCDF	**17**	**q B**	5.7	0.072	pg/g	☼	10/01/20 04:48	10/10/20 20:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		25 - 164	10/01/20 04:48	10/10/20 20:03	1
13C-2,3,7,8-TCDF	67		24 - 169	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,7,8-PeCDD	70		25 - 181	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,7,8-PeCDF	72		24 - 185	10/01/20 04:48	10/10/20 20:03	1
13C-2,3,4,7,8-PeCDF	70		21 - 178	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,4,7,8-HxCDD	100		32 - 141	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,6,7,8-HxCDD	86		28 - 130	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,4,7,8-HxCDF	64		26 - 152	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,6,7,8-HxCDF	67		26 - 123	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,7,8,9-HxCDF	69		29 - 147	10/01/20 04:48	10/10/20 20:03	1
13C-2,3,4,6,7,8-HxCDF	69		28 - 136	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,4,6,7,8-HpCDD	70		23 - 140	10/01/20 04:48	10/10/20 20:03	1
13C-1,2,3,4,6,7,8-HpCDF	73		28 - 143	10/01/20 04:48	10/10/20 20:03	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)

Date Collected: 09/26/20 10:40
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-1

Matrix: Solid
Percent Solids: 91.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	66		26 - 138	10/01/20 04:48	10/10/20 20:03	1
13C-OCDD	59		17 - 157	10/01/20 04:48	10/10/20 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	92		35 - 197	10/01/20 04:48	10/10/20 20:03	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.7**		1.0	0.36	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Barium	**53**		1.0	0.12	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Cadmium	<0.038		0.21	0.038	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Chromium	**15**		1.0	0.52	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Lead	**35**		0.52	0.24	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Selenium	**1.9**		1.0	0.61	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	10/07/20 18:14	10/08/20 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.017	0.0057	mg/Kg	☼	10/09/20 13:40	10/12/20 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	**2.5**		0.54	0.44	mg/Kg	☼	10/06/20 11:45	10/08/20 14:20	1
pH	**5.6**		0.2	0.2	SU			10/06/20 19:16	1
Percent Moisture	**9.0**		0.1	0.1	%			10/06/20 13:47	1
Percent Solids	**91.0**		0.1	0.1	%			10/06/20 13:47	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (28-31)
Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2
Matrix: Solid
Percent Solids: 96.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		22	13	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Bromobenzene	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Bromochloromethane	<38		90	38	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Bromodichloromethane	<33		90	33	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Bromoform	<43		90	43	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Bromomethane	<71		270	71	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Carbon tetrachloride	<34		90	34	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Chlorobenzene	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Chloroethane	<45		90	45	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Chloroform	<33		180	33	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Chloromethane	<29		90	29	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
2-Chlorotoluene	<28		90	28	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
4-Chlorotoluene	<31		90	31	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
cis-1,2-Dichloroethene	<37		90	37	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
cis-1,3-Dichloropropene	<37		90	37	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Dibromochloromethane	<44		90	44	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2-Dibromo-3-Chloropropane	<180	*	450	180	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2-Dibromoethane	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Dibromomethane	<24		90	24	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2-Dichlorobenzene	<30		90	30	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,3-Dichlorobenzene	<36		90	36	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,4-Dichlorobenzene	<33		90	33	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Dichlorodifluoromethane	<60		270	60	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1-Dichloroethane	<37		90	37	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2-Dichloroethane	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1-Dichloroethene	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2-Dichloropropane	<38		90	38	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,3-Dichloropropane	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
2,2-Dichloropropane	<40		90	40	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1-Dichloropropene	<27		90	27	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Ethylbenzene	<16		22	16	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Hexachlorobutadiene	<40		90	40	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Isopropylbenzene	<34		90	34	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Isopropyl ether	<25		90	25	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Methylene Chloride	<150		450	150	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Methyl tert-butyl ether	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
n-Butylbenzene	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
N-Propylbenzene	<37		90	37	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
p-Isopropyltoluene	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
sec-Butylbenzene	<36		90	36	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Styrene	<35		90	35	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
tert-Butylbenzene	<36		90	36	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1,1,2-Tetrachloroethane	<41		90	41	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1,2,2-Tetrachloroethane	<36		90	36	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Tetrachloroethene	<33		90	33	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Toluene	<13		22	13	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
trans-1,2-Dichloroethene	<31		90	31	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
trans-1,3-Dichloropropene	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2,3-Trichlorobenzene	<41		90	41	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (28-31)
Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2
Matrix: Solid
Percent Solids: 96.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<31		90	31	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1,1-Trichloroethane	<34		90	34	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,1,2-Trichloroethane	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Trichloroethene	<15		45	15	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Trichlorofluoromethane	<38		90	38	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
1,3,5-Trimethylbenzene	<34		90	34	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Vinyl chloride	<24		90	24	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50
Xylenes, Total	<20		45	20	ug/Kg	☼	09/26/20 11:15	10/06/20 05:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*09/26/20 11:15*	*10/06/20 05:38*	*50*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*09/26/20 11:15*	*10/06/20 05:38*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*09/26/20 11:15*	*10/06/20 05:38*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*09/26/20 11:15*	*10/06/20 05:38*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzo[a]anthracene	**7.3**	**J**	34	4.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzo[a]pyrene	**7.1**	**J**	34	6.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzo[b]fluoranthene	**9.0**	**J**	34	7.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzoic acid	<340		1700	340	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzo[k]fluoranthene	**10**	**J**	34	10	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Benzyl alcohol	<340		690	340	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Bis(2-chloroethoxy)methane	<35		170	35	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Bis(2-chloroethyl)ether	<51		170	51	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Bis(2-ethylhexyl) phthalate	<62		170	62	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Bromophenyl phenyl ether	<45		170	45	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Butyl benzyl phthalate	<65		170	65	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Carbazole	<85		170	85	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Chloroaniline	<160		690	160	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Chloro-3-methylphenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Chloronaphthalene	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Chlorophenol	<58		170	58	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Chlorophenyl phenyl ether	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Chrysene	**9.7**	**J**	34	9.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Dibenzofuran	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
1,2-Dichlorobenzene	<41		170	41	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
1,3-Dichlorobenzene	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
1,4-Dichlorobenzene	<44		170	44	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
3,3'-Dichlorobenzidine	<48		170	48	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4-Dichlorophenol	<81		340	81	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Diethyl phthalate	<58		170	58	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4-Dimethylphenol	<130		340	130	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1

Client Sample ID: SB-01 (28-31)
Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2
Matrix: Solid
Percent Solids: 96.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Di-n-butyl phthalate	<52		170	52	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4,6-Dinitro-2-methylphenol	<270		690	270	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4-Dinitrophenol	<600		690	600	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4-Dinitrotoluene	<54		170	54	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,6-Dinitrotoluene	<67		170	67	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Di-n-octyl phthalate	<56		170	56	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Fluoranthene	**13**	**J**	34	6.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Hexachlorobenzene	<7.9		69	7.9	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Hexachlorobutadiene	<53		170	53	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Hexachlorocyclopentadiene	<200		690	200	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Hexachloroethane	<52		170	52	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Isophorone	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
1-Methylnaphthalene	<8.3		69	8.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Methylphenol	<55		170	55	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
3 & 4 Methylphenol	<57		170	57	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Naphthalene	<5.2		34	5.2	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Nitroaniline	<46		170	46	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
3-Nitroaniline	<110		340	110	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Nitroaniline	<140		340	140	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Nitrobenzene	<8.5		34	8.5	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2-Nitrophenol	<80		340	80	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
4-Nitrophenol	<320		690	320	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
N-Nitrosodi-n-propylamine	<42		69	42	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
N-Nitrosodiphenylamine	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Pentachlorophenol	<550		690	550	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Phenanthrene	**6.8**	**J**	34	4.7	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Phenol	<76		170	76	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
Pyrene	**12**	**J**	34	6.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
1,2,4-Trichlorobenzene	<37		170	37	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4,5-Trichlorophenol	<78		340	78	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1
2,4,6-Trichlorophenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*10/08/20 21:03*	*10/09/20 11:52*	*1*
2-Fluorophenol (Surr)	*78*		*31 - 166*	*10/08/20 21:03*	*10/09/20 11:52*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*10/08/20 21:03*	*10/09/20 11:52*	*1*
Phenol-d5 (Surr)	*85*		*30 - 153*	*10/08/20 21:03*	*10/09/20 11:52*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*10/08/20 21:03*	*10/09/20 11:52*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*31 - 143*	*10/08/20 21:03*	*10/09/20 11:52*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1.6**	**J**	2.7	1.3	mg/Kg	☼	09/26/20 11:15	10/03/20 18:10	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (28-31)
Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2
Matrix: Solid
Percent Solids: 96.8

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.71		1.7	0.71	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
alpha-BHC	<0.43		1.7	0.43	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
beta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
cis-Chlordane	<0.86		1.7	0.86	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
4,4'-DDD	<0.34		1.7	0.34	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
4,4'-DDT	<0.90		1.7	0.90	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
delta-BHC	<0.54		1.7	0.54	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Dieldrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endosulfan I	<0.75		1.7	0.75	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endosulfan II	<0.28		1.7	0.28	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endrin	<0.24		1.7	0.24	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endrin aldehyde	<0.29		1.7	0.29	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Endrin ketone	<0.39		1.7	0.39	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
gamma-BHC (Lindane)	<0.37		1.7	0.37	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Heptachlor	<0.72		1.7	0.72	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Heptachlor epoxide	<0.61		1.7	0.61	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Methoxychlor	<0.33		8.5	0.33	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
Toxaphene	<7.2		17	7.2	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1
trans-Chlordane	<0.45		1.7	0.45	ug/Kg	☼	10/09/20 06:43	10/10/20 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*33 - 148*	*10/09/20 06:43*	*10/10/20 07:36*	*1*
Tetrachloro-m-xylene	*81*		*30 - 121*	*10/09/20 06:43*	*10/10/20 07:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1
Polychlorinated biphenyls, Total	<3.3		17	3.3	ug/Kg	☼	10/09/20 06:43	10/09/20 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*49 - 129*	*10/09/20 06:43*	*10/09/20 23:15*	*1*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*10/09/20 06:43*	*10/09/20 23:15*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<97		340	97	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10
2,4-DB	<100		340	100	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10
Dicamba	<71		340	71	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10
Dichlorprop	<93		340	93	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10
Silvex (2,4,5-TP)	<88		340	88	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10
2,4,5-T	<83		340	83	ug/Kg	☼	10/07/20 07:34	10/09/20 13:49	10

Client Sample ID: SB-01 (28-31)

Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2

Matrix: Solid
Percent Solids: 96.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*61*		*25 - 120*	*10/07/20 07:34*	*10/09/20 13:49*	*10*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**4.7**	**B**	4.1	1.6	mg/Kg	☼	10/06/20 05:48	10/07/20 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*74*		*44 - 148*	*10/06/20 05:48*	*10/07/20 13:12*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.15		0.99	0.15	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
2,3,7,8-TCDF	<0.071		0.99	0.071	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,7,8-PeCDD	<0.097		4.9	0.097	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,7,8-PeCDF	<0.049		4.9	0.049	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
2,3,4,7,8-PeCDF	<0.053		4.9	0.053	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,4,7,8-HxCDD	**0.27**	**J B**	4.9	0.026	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,6,7,8-HxCDD	<0.034		4.9	0.034	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,7,8,9-HxCDD	<0.028		4.9	0.028	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,4,7,8-HxCDF	<0.041		4.9	0.041	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,6,7,8-HxCDF	<0.036		4.9	0.036	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,7,8,9-HxCDF	<0.028		4.9	0.028	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
2,3,4,6,7,8-HxCDF	<0.030		4.9	0.030	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,4,6,7,8-HpCDD	**0.46**	**J B**	4.9	0.041	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,4,6,7,8-HpCDF	**0.18**	**J q B**	4.9	0.020	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
1,2,3,4,7,8,9-HpCDF	<0.022		4.9	0.022	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
OCDD	**2.7**	**J B**	9.9	0.028	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
OCDF	**0.79**	**J B**	9.9	0.072	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total TCDD	<0.15		0.99	0.15	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total TCDF	<0.071		0.99	0.071	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total PeCDD	<0.097		4.9	0.097	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total PeCDF	<0.053		4.9	0.053	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total HxCDD	**0.27**	**J B**	4.9	0.029	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total HxCDF	<0.041		4.9	0.041	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total HpCDD	**0.98**	**J B**	4.9	0.041	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1
Total HpCDF	**0.32**	**J q B**	4.9	0.021	pg/g	☼	10/01/20 04:48	10/10/20 20:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*75*		*25 - 164*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-2,3,7,8-TCDF	*66*		*24 - 169*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,7,8-PeCDD	*74*		*25 - 181*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,7,8-PeCDF	*76*		*24 - 185*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-2,3,4,7,8-PeCDF	*73*		*21 - 178*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,4,7,8-HxCDD	*105*		*32 - 141*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*28 - 130*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,4,7,8-HxCDF	*64*		*26 - 152*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,6,7,8-HxCDF	*69*		*26 - 123*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,7,8,9-HxCDF	*75*		*29 - 147*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-2,3,4,6,7,8-HxCDF	*70*		*28 - 136*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*78*		*23 - 140*	*10/01/20 04:48*	*10/10/20 20:50*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*28 - 143*	*10/01/20 04:48*	*10/10/20 20:50*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (28-31)

Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2

Matrix: Solid
Percent Solids: 96.8

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	72		26 - 138	10/01/20 04:48	10/10/20 20:50	1
13C-OCDD	72		17 - 157	10/01/20 04:48	10/10/20 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	10/01/20 04:48	10/10/20 20:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.99**		0.94	0.32	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Barium	**18**		0.94	0.11	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Cadmium	<0.034		0.19	0.034	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Chromium	**11**		0.94	0.47	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Lead	**1.6**		0.47	0.22	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Selenium	<0.56		0.94	0.56	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1
Silver	<0.12		0.47	0.12	mg/Kg	☼	10/07/20 18:14	10/08/20 09:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0051		0.015	0.0051	mg/Kg	☼	10/09/20 13:40	10/12/20 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	**1.3**		0.50	0.41	mg/Kg	☼	10/06/20 11:45	10/08/20 14:21	1
pH	**7.1**		0.2	0.2	SU			10/06/20 19:18	1
Percent Moisture	**3.2**		0.1	0.1	%			10/06/20 13:47	1
Percent Solids	**96.8**		0.1	0.1	%			10/06/20 13:47	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (0-4)
Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Bromobenzene	<33		92	33	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Bromochloromethane	<39		92	39	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Bromodichloromethane	<34		92	34	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Bromoform	<45		92	45	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Bromomethane	<73		280	73	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Carbon tetrachloride	<35		92	35	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Chlorobenzene	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Chloroethane	<47		92	47	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Chloroform	<34		180	34	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Chloromethane	<30		92	30	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
2-Chlorotoluene	<29		92	29	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
4-Chlorotoluene	<32		92	32	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
cis-1,2-Dichloroethene	<38		92	38	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
cis-1,3-Dichloropropene	<38		92	38	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Dibromochloromethane	<45		92	45	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2-Dibromo-3-Chloropropane	<180	*	460	180	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2-Dibromoethane	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Dibromomethane	<25		92	25	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2-Dichlorobenzene	<31		92	31	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,3-Dichlorobenzene	<37		92	37	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,4-Dichlorobenzene	<34		92	34	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Dichlorodifluoromethane	<62		280	62	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1-Dichloroethane	<38		92	38	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2-Dichloroethane	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1-Dichloroethene	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2-Dichloropropane	<39		92	39	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,3-Dichloropropane	<33		92	33	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
2,2-Dichloropropane	<41		92	41	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1-Dichloropropene	<27		92	27	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Ethylbenzene	<17		23	17	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Hexachlorobutadiene	<41		92	41	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Isopropylbenzene	<35		92	35	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Isopropyl ether	<25		92	25	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Methylene Chloride	<150		460	150	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Methyl tert-butyl ether	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
n-Butylbenzene	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
N-Propylbenzene	<38		92	38	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
p-Isopropyltoluene	<33		92	33	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
sec-Butylbenzene	<37		92	37	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Styrene	<36		92	36	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
tert-Butylbenzene	<37		92	37	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1,1,2-Tetrachloroethane	<43		92	43	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1,2,2-Tetrachloroethane	<37		92	37	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Tetrachloroethene	<34		92	34	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Toluene	<14		23	14	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
trans-1,2-Dichloroethene	<32		92	32	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
trans-1,3-Dichloropropene	<33		92	33	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2,3-Trichlorobenzene	<42		92	42	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (0-4)
Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<32		92	32	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1,1-Trichloroethane	<35		92	35	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,1,2-Trichloroethane	<32		92	32	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Trichloroethene	<15		46	15	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Trichlorofluoromethane	<39		92	39	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2,3-Trichloropropane	<38		180	38	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,2,4-Trimethylbenzene	<33		92	33	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
1,3,5-Trimethylbenzene	<35		92	35	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Vinyl chloride	<24		92	24	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50
Xylenes, Total	<20		46	20	ug/Kg	☼	09/26/20 12:30	10/06/20 06:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*09/26/20 12:30*	*10/06/20 06:04*	*50*
Dibromofluoromethane (Surr)	*86*		*75 - 120*	*09/26/20 12:30*	*10/06/20 06:04*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*09/26/20 12:30*	*10/06/20 06:04*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*09/26/20 12:30*	*10/06/20 06:04*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Acenaphthylene	**16**	**J**	35	4.7	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Anthracene	**24**	**J**	35	5.9	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzo[a]anthracene	**42**		35	4.8	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzo[a]pyrene	**50**		35	6.9	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzo[b]fluoranthene	**97**		35	7.7	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzo[g,h,i]perylene	**41**		35	11	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzoic acid	**460**	**J**	1800	350	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzo[k]fluoranthene	**32**	**J**	35	10	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Benzyl alcohol	<350		720	350	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Bis(2-chloroethoxy)methane	<36		180	36	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Bis(2-chloroethyl)ether	<53		180	53	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Bis(2-ethylhexyl) phthalate	<65		180	65	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Bromophenyl phenyl ether	<47		180	47	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Butyl benzyl phthalate	<68		180	68	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Carbazole	<89		180	89	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Chloroaniline	<170		720	170	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Chloro-3-methylphenol	<120		350	120	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Chloronaphthalene	<39		180	39	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Chlorophenol	<61		180	61	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Chlorophenyl phenyl ether	<41		180	41	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Chrysene	**56**		35	9.7	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Dibenz(a,h)anthracene	**9.4**	**J**	35	6.9	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Dibenzofuran	<42		180	42	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
1,2-Dichlorobenzene	<42		180	42	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
1,3-Dichlorobenzene	<40		180	40	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
1,4-Dichlorobenzene	<46		180	46	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
3,3'-Dichlorobenzidine	<50		180	50	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4-Dichlorophenol	<84		350	84	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Diethyl phthalate	<60		180	60	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4-Dimethylphenol	<130		350	130	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (0-4)
Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<46		180	46	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Di-n-butyl phthalate	<54		180	54	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4,6-Dinitro-2-methylphenol	<290		720	290	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4-Dinitrophenol	<630		720	630	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4-Dinitrotoluene	<56		180	56	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,6-Dinitrotoluene	<70		180	70	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Di-n-octyl phthalate	<58		180	58	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Fluoranthene	**77**		35	6.6	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Fluorene	<5.0		35	5.0	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Hexachlorobenzene	<8.2		72	8.2	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Hexachlorobutadiene	<56		180	56	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Hexachlorocyclopentadiene	<200		720	200	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Hexachloroethane	<54		180	54	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Indeno[1,2,3-cd]pyrene	**34**	**J**	35	9.2	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Isophorone	<40		180	40	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
1-Methylnaphthalene	**16**	**J**	72	8.7	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Methylnaphthalene	**20**	**J**	72	6.5	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Methylphenol	<57		180	57	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
3 & 4 Methylphenol	<59		180	59	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Naphthalene	**14**	**J**	35	5.5	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Nitroaniline	<48		180	48	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
3-Nitroaniline	<110		350	110	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Nitroaniline	<150		350	150	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Nitrobenzene	<8.9		35	8.9	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2-Nitrophenol	<84		350	84	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
4-Nitrophenol	<340		720	340	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
N-Nitrosodi-n-propylamine	<43		72	43	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
N-Nitrosodiphenylamine	<42		180	42	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,2'-oxybis[1-chloropropane]	<41		180	41	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Pentachlorophenol	<570		720	570	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Phenanthrene	**32**	**J**	35	5.0	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Phenol	<79		180	79	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
Pyrene	**78**		35	7.1	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
1,2,4-Trichlorobenzene	<38		180	38	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4,5-Trichlorophenol	<81		350	81	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1
2,4,6-Trichlorophenol	<120		350	120	ug/Kg	☼	10/08/20 21:03	10/09/20 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*10/08/20 21:03*	*10/09/20 17:09*	*1*
2-Fluorophenol (Surr)	*98*		*31 - 166*	*10/08/20 21:03*	*10/09/20 17:09*	*1*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*10/08/20 21:03*	*10/09/20 17:09*	*1*
Phenol-d5 (Surr)	*99*		*30 - 153*	*10/08/20 21:03*	*10/09/20 17:09*	*1*
Terphenyl-d14 (Surr)	*93*		*42 - 157*	*10/08/20 21:03*	*10/09/20 17:09*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*31 - 143*	*10/08/20 21:03*	*10/09/20 17:09*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1.8**	**J**	2.8	1.4	mg/Kg	☼	09/26/20 12:30	10/03/20 18:45	50

Client Sample ID: SB-03 (0-4)

Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3

Matrix: Solid
Percent Solids: 92.2

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.74		1.8	0.74	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
alpha-BHC	<0.45		1.8	0.45	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
beta-BHC	<0.56		1.8	0.56	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
cis-Chlordane	<0.91		1.8	0.91	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
4,4'-DDD	<0.36		1.8	0.36	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
4,4'-DDE	<0.30		1.8	0.30	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
4,4'-DDT	<0.94		1.8	0.94	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
delta-BHC	<0.56		1.8	0.56	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Dieldrin	<0.25		1.8	0.25	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endosulfan I	<0.78		1.8	0.78	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endosulfan II	<0.29		1.8	0.29	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endosulfan sulfate	<0.33		1.8	0.33	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endrin	<0.25		1.8	0.25	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endrin aldehyde	<0.30		1.8	0.30	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Endrin ketone	<0.41		1.8	0.41	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
gamma-BHC (Lindane)	<0.39		1.8	0.39	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Heptachlor	<0.75		1.8	0.75	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Heptachlor epoxide	<0.64		1.8	0.64	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Methoxychlor	<0.35		8.9	0.35	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
Toxaphene	<7.5		18	7.5	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1
trans-Chlordane	<0.47		1.8	0.47	ug/Kg	☼	10/09/20 06:43	10/10/20 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*108*		*33 - 148*	*10/09/20 06:43*	*10/10/20 07:56*	*1*
Tetrachloro-m-xylene	*111*		*30 - 121*	*10/09/20 06:43*	*10/10/20 07:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1
Polychlorinated biphenyls, Total	<3.4		18	3.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*49 - 129*	*10/09/20 06:43*	*10/09/20 23:31*	*1*
DCB Decachlorobiphenyl	*97*		*37 - 121*	*10/09/20 06:43*	*10/09/20 23:31*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<100		360	100	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10
2,4-DB	<110		360	110	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10
Dicamba	<74		360	74	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10
Dichlorprop	<98		360	98	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10
Silvex (2,4,5-TP)	<92		360	92	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10
2,4,5-T	<87		360	87	ug/Kg	☼	10/07/20 07:34	10/09/20 14:09	10

Client Sample ID: SB-03 (0-4)

Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3

Matrix: Solid
Percent Solids: 92.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	71		25 - 120	10/07/20 07:34	10/09/20 14:09	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**11**	**B**	4.3	1.7	mg/Kg	☼	10/06/20 05:48	10/07/20 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	73		44 - 148	10/06/20 05:48	10/07/20 13:38	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.18		1.1	0.18	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
2,3,7,8-TCDF	<0.11		1.1	0.11	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,7,8-PeCDD	<0.14		5.4	0.14	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,7,8-PeCDF	<0.094		5.4	0.094	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
2,3,4,7,8-PeCDF	<0.10		5.4	0.10	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,4,7,8-HxCDD	**0.46**	**J B**	5.4	0.066	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,6,7,8-HxCDD	**1.9**	**J**	5.4	0.085	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,7,8,9-HxCDD	**0.87**	**J B**	5.4	0.069	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,4,7,8-HxCDF	**0.32**	**J q**	5.4	0.17	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,6,7,8-HxCDF	**0.33**	**J**	5.4	0.15	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,7,8,9-HxCDF	<0.13		5.4	0.13	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
2,3,4,6,7,8-HxCDF	**0.33**	**J**	5.4	0.13	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,4,6,7,8-HpCDD	**67**	**B**	5.4	0.61	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,4,6,7,8-HpCDF	**8.2**	**B**	5.4	0.12	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
1,2,3,4,7,8,9-HpCDF	**0.66**	**J B**	5.4	0.14	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
OCDD	**850**	**B**	11	0.83	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
OCDF	**40**	**B**	11	0.13	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total TCDD	<0.18		1.1	0.18	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total TCDF	<0.11		1.1	0.11	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total PeCDD	<0.14		5.4	0.14	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total PeCDF	**1.0**	**J q**	5.4	0.098	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total HxCDD	**12**	**q B**	5.4	0.073	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total HxCDF	**7.9**	**q**	5.4	0.14	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total HpCDD	**360**	**B**	5.4	0.61	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1
Total HpCDF	**31**	**B**	5.4	0.13	pg/g	☼	10/01/20 04:48	10/10/20 21:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		25 - 164	10/01/20 04:48	10/10/20 21:38	1
13C-2,3,7,8-TCDF	62		24 - 169	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,7,8-PeCDD	70		25 - 181	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,7,8-PeCDF	71		24 - 185	10/01/20 04:48	10/10/20 21:38	1
13C-2,3,4,7,8-PeCDF	68		21 - 178	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,4,7,8-HxCDD	97		32 - 141	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,6,7,8-HxCDD	84		28 - 130	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,4,7,8-HxCDF	61		26 - 152	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,6,7,8-HxCDF	64		26 - 123	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,7,8,9-HxCDF	70		29 - 147	10/01/20 04:48	10/10/20 21:38	1
13C-2,3,4,6,7,8-HxCDF	67		28 - 136	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,4,6,7,8-HpCDD	72		23 - 140	10/01/20 04:48	10/10/20 21:38	1
13C-1,2,3,4,6,7,8-HpCDF	74		28 - 143	10/01/20 04:48	10/10/20 21:38	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (0-4)

Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3

Matrix: Solid
Percent Solids: 92.2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8,9-HpCDF	*69*		*26 - 138*	*10/01/20 04:48*	*10/10/20 21:38*	*1*
13C-OCDD	*70*		*17 - 157*	*10/01/20 04:48*	*10/10/20 21:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*84*		*35 - 197*	*10/01/20 04:48*	*10/10/20 21:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.8**		0.93	0.32	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Barium	**59**		0.93	0.11	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Cadmium	**0.079**	**J**	0.19	0.033	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Chromium	**13**		0.93	0.46	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Lead	**8.9**		0.46	0.21	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Selenium	<0.55		0.93	0.55	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1
Silver	<0.12		0.46	0.12	mg/Kg	☼	10/07/20 18:14	10/08/20 10:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0058	mg/Kg	☼	10/09/20 13:40	10/12/20 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.42		0.51	0.42	mg/Kg	☼	10/06/20 11:45	10/08/20 14:22	1
pH	**7.4**		0.2	0.2	SU			10/06/20 19:21	1
Percent Moisture	**7.8**		0.1	0.1	%			10/06/20 13:47	1
Percent Solids	**92.2**		0.1	0.1	%			10/06/20 13:47	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (24-27.5)
Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4
Matrix: Solid
Percent Solids: 96.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Bromobenzene	<32		90	32	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Bromochloromethane	<39		90	39	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Bromodichloromethane	<34		90	34	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Bromoform	<44		90	44	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Bromomethane	<72		270	72	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Carbon tetrachloride	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Chlorobenzene	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Chloroethane	<46		90	46	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Chloroform	<33		180	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Chloromethane	<29		90	29	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
2-Chlorotoluene	<28		90	28	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
4-Chlorotoluene	<32		90	32	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
cis-1,2-Dichloroethene	<37		90	37	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
cis-1,3-Dichloropropene	<38		90	38	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Dibromochloromethane	<44		90	44	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2-Dibromo-3-Chloropropane	<180	* F1	450	180	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2-Dibromoethane	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Dibromomethane	<24		90	24	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2-Dichlorobenzene	<30		90	30	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,3-Dichlorobenzene	<36		90	36	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,4-Dichlorobenzene	<33		90	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Dichlorodifluoromethane	<61		270	61	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1-Dichloroethane	<37		90	37	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2-Dichloroethane	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1-Dichloroethene	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2-Dichloropropane	<39		90	39	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,3-Dichloropropane	<33		90	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
2,2-Dichloropropane	<40		90	40	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1-Dichloropropene	<27		90	27	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Ethylbenzene	<17		23	17	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Hexachlorobutadiene	<40		90	40	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Isopropylbenzene	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Isopropyl ether	<25		90	25	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Methylene Chloride	<150		450	150	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Methyl tert-butyl ether	<36		90	36	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
n-Butylbenzene	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
N-Propylbenzene	<37		90	37	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
p-Isopropyltoluene	<33		90	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
sec-Butylbenzene	<36		90	36	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Styrene	<35		90	35	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
tert-Butylbenzene	<36		90	36	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1,1,2-Tetrachloroethane	<42		90	42	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1,2,2-Tetrachloroethane	<36		90	36	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Tetrachloroethene	<33		90	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Toluene	<13		23	13	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
trans-1,2-Dichloroethene	<32		90	32	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
trans-1,3-Dichloropropene	<33		90	33	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2,3-Trichlorobenzene	<41		90	41	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (24-27.5)
Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4
Matrix: Solid
Percent Solids: 96.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<31		90	31	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1,1-Trichloroethane	<34		90	34	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,1,2-Trichloroethane	<32		90	32	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Trichloroethene	<15		45	15	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Trichlorofluoromethane	<39		90	39	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
1,3,5-Trimethylbenzene	<34		90	34	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Vinyl chloride	<24		90	24	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50
Xylenes, Total	<20		45	20	ug/Kg	☼	09/26/20 13:00	10/06/20 06:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*09/26/20 13:00*	*10/06/20 06:31*	*50*
Dibromofluoromethane (Surr)	*87*		*75 - 120*	*09/26/20 13:00*	*10/06/20 06:31*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*09/26/20 13:00*	*10/06/20 06:31*	*50*
Toluene-d8 (Surr)	*94*		*75 - 120*	*09/26/20 13:00*	*10/06/20 06:31*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzo[a]anthracene	<4.6		34	4.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzo[a]pyrene	<6.6		34	6.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzo[b]fluoranthene	<7.3		34	7.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzo[g,h,i]perylene	<11	F1	34	11	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzoic acid	**430**	**J F1**	1700	340	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Benzyl alcohol	<340	F2	690	340	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Bis(2-chloroethoxy)methane	<35		170	35	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Bis(2-chloroethyl)ether	<51	F2	170	51	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Bis(2-ethylhexyl) phthalate	<62		170	62	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Bromophenyl phenyl ether	<45		170	45	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Butyl benzyl phthalate	<65		170	65	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Carbazole	<85		170	85	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Chloroaniline	<160	F2	690	160	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Chloro-3-methylphenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Chloronaphthalene	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Chlorophenol	<58	F1	170	58	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Chlorophenyl phenyl ether	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Chrysene	<9.3		34	9.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Dibenzofuran	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
1,2-Dichlorobenzene	<41	F1 F2	170	41	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
1,3-Dichlorobenzene	<38	F1 F2	170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
1,4-Dichlorobenzene	<44	F1 F2	170	44	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
3,3'-Dichlorobenzidine	<48		170	48	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4-Dichlorophenol	<81		340	81	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Diethyl phthalate	<58		170	58	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4-Dimethylphenol	<130		340	130	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (24-27.5)
Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4
Matrix: Solid
Percent Solids: 96.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Di-n-butyl phthalate	<52		170	52	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4,6-Dinitro-2-methylphenol	<270	F2	690	270	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4-Dinitrophenol	<600	F1	690	600	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4-Dinitrotoluene	<54		170	54	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,6-Dinitrotoluene	<67		170	67	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Di-n-octyl phthalate	<56		170	56	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Fluoranthene	<6.3		34	6.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Hexachlorobenzene	<7.9		69	7.9	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Hexachlorobutadiene	<53	F1 F2	170	53	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Hexachlorocyclopentadiene	<200		690	200	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Hexachloroethane	<52	F1 F2	170	52	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Isophorone	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
1-Methylnaphthalene	<8.3	F1	69	8.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Methylnaphthalene	<6.3	F1	69	6.3	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Methylphenol	<55		170	55	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
3 & 4 Methylphenol	<57		170	57	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Naphthalene	<5.2	F1	34	5.2	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Nitroaniline	<46		170	46	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
3-Nitroaniline	<110		340	110	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Nitroaniline	<140		340	140	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Nitrobenzene	<8.5	F1	34	8.5	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2-Nitrophenol	<80		340	80	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
4-Nitrophenol	<320		690	320	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
N-Nitrosodi-n-propylamine	<42		69	42	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
N-Nitrosodiphenylamine	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,2'-oxybis[1-chloropropane]	<39	F2	170	39	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Pentachlorophenol	<550	F1	690	550	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Phenanthrene	<4.7		34	4.7	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Phenol	<76		170	76	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
Pyrene	<6.8		34	6.8	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
1,2,4-Trichlorobenzene	<37	F1 F2	170	37	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4,5-Trichlorophenol	<78		340	78	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1
2,4,6-Trichlorophenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*43 - 145*	*10/08/20 21:03*	*10/09/20 11:27*	*1*
2-Fluorophenol (Surr)	*95*		*31 - 166*	*10/08/20 21:03*	*10/09/20 11:27*	*1*
Nitrobenzene-d5 (Surr)	*99*		*37 - 147*	*10/08/20 21:03*	*10/09/20 11:27*	*1*
Phenol-d5 (Surr)	*103*		*30 - 153*	*10/08/20 21:03*	*10/09/20 11:27*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*10/08/20 21:03*	*10/09/20 11:27*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*31 - 143*	*10/08/20 21:03*	*10/09/20 11:27*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<1.4		2.7	1.4	mg/Kg	☼	09/26/20 13:00	10/03/20 19:19	50

Client Sample ID: SB-03 (24-27.5)

Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4

Matrix: Solid
Percent Solids: 96.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.70		1.7	0.70	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
alpha-BHC	<0.43		1.7	0.43	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
beta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
cis-Chlordane	<0.86		1.7	0.86	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
4,4'-DDD	<0.34		1.7	0.34	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
4,4'-DDT	<0.89	F1	1.7	0.89	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
delta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Dieldrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endosulfan I	<0.74		1.7	0.74	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endrin aldehyde	<0.28		1.7	0.28	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
gamma-BHC (Lindane)	<0.37		1.7	0.37	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Heptachlor	<0.71		1.7	0.71	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Heptachlor epoxide	<0.60		1.7	0.60	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Methoxychlor	<0.33		8.4	0.33	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
Toxaphene	<7.1		17	7.1	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1
trans-Chlordane	<0.44		1.7	0.44	ug/Kg	☼	10/09/20 06:43	10/10/20 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*33 - 148*	*10/09/20 06:43*	*10/10/20 08:17*	*1*
Tetrachloro-m-xylene	*94*		*30 - 121*	*10/09/20 06:43*	*10/10/20 08:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1221	<7.4		17	7.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1254	<3.6		17	3.6	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
PCB-1260	<8.3		17	8.3	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg	☼	10/09/20 06:43	10/09/20 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*49 - 129*	*10/09/20 06:43*	*10/09/20 23:46*	*1*
DCB Decachlorobiphenyl	*111*		*37 - 121*	*10/09/20 06:43*	*10/09/20 23:46*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<97		340	97	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10
2,4-DB	<100		340	100	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10
Dicamba	<71		340	71	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10
Dichlorprop	<93		340	93	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10
Silvex (2,4,5-TP)	<88		340	88	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10
2,4,5-T	<83		340	83	ug/Kg	☼	10/07/20 07:34	10/09/20 15:06	10

Client Sample ID: SB-03 (24-27.5)

Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4

Matrix: Solid
Percent Solids: 96.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	56		25 - 120	10/07/20 07:34	10/09/20 15:06	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**5.0**	**B**	4.1	1.7	mg/Kg	☼	10/06/20 05:48	10/07/20 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	71		44 - 148	10/06/20 05:48	10/07/20 14:04	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.13		1.0	0.13	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
2,3,7,8-TCDF	<0.068		1.0	0.068	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,7,8-PeCDD	<0.10		5.1	0.10	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,7,8-PeCDF	<0.050		5.1	0.050	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
2,3,4,7,8-PeCDF	<0.059		5.1	0.059	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,4,7,8-HxCDD	<0.033		5.1	0.033	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,6,7,8-HxCDD	<0.042		5.1	0.042	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,7,8,9-HxCDD	**0.082**	**J B**	5.1	0.034	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,4,7,8-HxCDF	<0.055		5.1	0.055	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,6,7,8-HxCDF	<0.049		5.1	0.049	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,7,8,9-HxCDF	<0.042		5.1	0.042	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
2,3,4,6,7,8-HxCDF	<0.041		5.1	0.041	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,4,6,7,8-HpCDD	**3.5**	**J B**	5.1	0.099	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,4,6,7,8-HpCDF	**0.39**	**J q B**	5.1	0.027	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
1,2,3,4,7,8,9-HpCDF	<0.030		5.1	0.030	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
OCDD	**41**	**B**	10	0.081	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
OCDF	**1.8**	**J B**	10	0.099	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total TCDD	<0.13		1.0	0.13	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total TCDF	<0.068		1.0	0.068	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total PeCDD	<0.10		5.1	0.10	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total PeCDF	<0.17		5.1	0.17	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total HxCDD	**0.43**	**J q B**	5.1	0.037	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total HxCDF	**0.21**	**J q**	5.1	0.047	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total HpCDD	**21**	**B**	5.1	0.099	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1
Total HpCDF	**1.3**	**J q B**	5.1	0.029	pg/g	☼	10/01/20 04:48	10/10/20 22:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		25 - 164	10/01/20 04:48	10/10/20 22:26	1
13C-2,3,7,8-TCDF	68		24 - 169	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,7,8-PeCDD	76		25 - 181	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,7,8-PeCDF	77		24 - 185	10/01/20 04:48	10/10/20 22:26	1
13C-2,3,4,7,8-PeCDF	74		21 - 178	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,4,7,8-HxCDD	106		32 - 141	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,6,7,8-HxCDD	95		28 - 130	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,4,7,8-HxCDF	66		26 - 152	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,6,7,8-HxCDF	74		26 - 123	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,7,8,9-HxCDF	74		29 - 147	10/01/20 04:48	10/10/20 22:26	1
13C-2,3,4,6,7,8-HxCDF	75		28 - 136	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,4,6,7,8-HpCDD	76		23 - 140	10/01/20 04:48	10/10/20 22:26	1
13C-1,2,3,4,6,7,8-HpCDF	78		28 - 143	10/01/20 04:48	10/10/20 22:26	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (24-27.5)

Date Collected: 09/26/20 13:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-4

Matrix: Solid
Percent Solids: 96.7

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	71		26 - 138	10/01/20 04:48	10/10/20 22:26	1
13C-OCDD	65		17 - 157	10/01/20 04:48	10/10/20 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	90		35 - 197	10/01/20 04:48	10/10/20 22:26	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.0**		0.98	0.33	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Barium	**22**	**V**	0.98	0.11	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Cadmium	<0.035		0.20	0.035	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Chromium	**18**	**F1**	0.98	0.48	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Lead	**1.7**		0.49	0.23	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Selenium	<0.57		0.98	0.57	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1
Silver	<0.13		0.49	0.13	mg/Kg	☼	10/07/20 18:14	10/08/20 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0053		0.016	0.0053	mg/Kg	☼	10/09/20 13:40	10/12/20 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	**0.52**		0.50	0.41	mg/Kg	☼	10/06/20 11:45	10/08/20 14:23	1
pH	**8.1**		0.2	0.2	SU			10/06/20 19:23	1
Percent Moisture	**3.3**		0.1	0.1	%			10/06/20 13:47	1
Percent Solids	**96.7**		0.1	0.1	%			10/06/20 13:47	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092620)
Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5
Matrix: Solid
Percent Solids: 97.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		25	14	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Bromobenzene	<35		99	35	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Bromochloromethane	<42		99	42	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Bromodichloromethane	<37		99	37	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Bromoform	<48		99	48	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Bromomethane	<79		300	79	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Carbon tetrachloride	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Chlorobenzene	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Chloroethane	<50		99	50	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Chloroform	<37		200	37	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Chloromethane	<32		99	32	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
2-Chlorotoluene	<31		99	31	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
4-Chlorotoluene	<35		99	35	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
cis-1,2-Dichloroethene	<40		99	40	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
cis-1,3-Dichloropropene	<41		99	41	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Dibromochloromethane	<48		99	48	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2-Dibromo-3-Chloropropane	<200	*	490	200	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2-Dibromoethane	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Dibromomethane	<27		99	27	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2-Dichlorobenzene	<33		99	33	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,3-Dichlorobenzene	<40		99	40	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,4-Dichlorobenzene	<36		99	36	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Dichlorodifluoromethane	<67		300	67	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1-Dichloroethane	<41		99	41	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2-Dichloroethane	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1-Dichloroethene	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2-Dichloropropane	<42		99	42	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,3-Dichloropropane	<36		99	36	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
2,2-Dichloropropane	<44		99	44	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1-Dichloropropene	<29		99	29	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Ethylbenzene	<18		25	18	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Hexachlorobutadiene	<44		99	44	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Isopropylbenzene	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Isopropyl ether	<27		99	27	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Methylene Chloride	<160		490	160	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Methyl tert-butyl ether	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
n-Butylbenzene	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
N-Propylbenzene	<41		99	41	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
p-Isopropyltoluene	<36		99	36	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
sec-Butylbenzene	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Styrene	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
tert-Butylbenzene	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1,1,2-Tetrachloroethane	<46		99	46	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1,2,2-Tetrachloroethane	<39		99	39	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Tetrachloroethene	<37		99	37	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Toluene	<15		25	15	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
trans-1,2-Dichloroethene	<35		99	35	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
trans-1,3-Dichloropropene	<36		99	36	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2,3-Trichlorobenzene	<45		99	45	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092620)
Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5
Matrix: Solid
Percent Solids: 97.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<34		99	34	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1,1-Trichloroethane	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,1,2-Trichloroethane	<35		99	35	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Trichloroethene	<16		49	16	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Trichlorofluoromethane	<42		99	42	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2,3-Trichloropropane	<41		200	41	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,2,4-Trimethylbenzene	<35		99	35	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
1,3,5-Trimethylbenzene	<38		99	38	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Vinyl chloride	<26		99	26	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50
Xylenes, Total	<22		49	22	ug/Kg	☼	09/26/20 00:00	10/06/20 06:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*09/26/20 00:00*	*10/06/20 06:58*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*09/26/20 00:00*	*10/06/20 06:58*	*50*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*09/26/20 00:00*	*10/06/20 06:58*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*09/26/20 00:00*	*10/06/20 06:58*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzo[a]anthracene	<4.6		34	4.6	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzo[a]pyrene	<6.5		34	6.5	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzo[b]fluoranthene	**7.5**	**J**	34	7.3	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzoic acid	**430**	**J**	1700	340	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Benzyl alcohol	<340		680	340	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Bis(2-chloroethoxy)methane	<35		170	35	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Bis(2-chloroethyl)ether	<51		170	51	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Bis(2-ethylhexyl) phthalate	<62		170	62	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Bromophenyl phenyl ether	<45		170	45	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Butyl benzyl phthalate	<64		170	64	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Carbazole	<85		170	85	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Chloroaniline	<160		680	160	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Chloro-3-methylphenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Chloronaphthalene	<37		170	37	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Chlorophenol	<58		170	58	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Chlorophenyl phenyl ether	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Chrysene	<9.2		34	9.2	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Dibenz(a,h)anthracene	<6.5		34	6.5	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Dibenzofuran	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
1,3-Dichlorobenzene	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4-Dichlorophenol	<80		340	80	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Diethyl phthalate	<57		170	57	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4-Dimethylphenol	<130		340	130	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092620)
Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5
Matrix: Solid
Percent Solids: 97.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Di-n-butyl phthalate	<52		170	52	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4,6-Dinitro-2-methylphenol	<270		680	270	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4-Dinitrophenol	<600		680	600	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4-Dinitrotoluene	<54		170	54	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,6-Dinitrotoluene	<66		170	66	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Di-n-octyl phthalate	<55		170	55	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Fluoranthene	**7.2**	**J**	34	6.3	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Hexachlorobenzene	<7.8		68	7.8	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Hexachlorobutadiene	<53		170	53	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Hexachlorocyclopentadiene	<190		680	190	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Hexachloroethane	<51		170	51	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Isophorone	<38		170	38	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
1-Methylnaphthalene	<8.3		68	8.3	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Methylnaphthalene	<6.2		68	6.2	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Methylphenol	<54		170	54	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
3 & 4 Methylphenol	<56		170	56	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Naphthalene	<5.2		34	5.2	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Nitroaniline	<46		170	46	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
3-Nitroaniline	<100		340	100	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Nitroaniline	<140		340	140	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Nitrobenzene	<8.4		34	8.4	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2-Nitrophenol	<80		340	80	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
4-Nitrophenol	<320		680	320	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
N-Nitrosodi-n-propylamine	<41		68	41	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
N-Nitrosodiphenylamine	<40		170	40	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Pentachlorophenol	<540		680	540	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Phenanthrene	<4.7		34	4.7	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Phenol	<75		170	75	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
Pyrene	**7.1**	**J**	34	6.7	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4,5-Trichlorophenol	<77		340	77	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1
2,4,6-Trichlorophenol	<120		340	120	ug/Kg	☼	10/08/20 21:03	10/09/20 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*10/08/20 21:03*	*10/09/20 12:17*	*1*
2-Fluorophenol (Surr)	*97*		*31 - 166*	*10/08/20 21:03*	*10/09/20 12:17*	*1*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*	*10/08/20 21:03*	*10/09/20 12:17*	*1*
Phenol-d5 (Surr)	*100*		*30 - 153*	*10/08/20 21:03*	*10/09/20 12:17*	*1*
Terphenyl-d14 (Surr)	*97*		*42 - 157*	*10/08/20 21:03*	*10/09/20 12:17*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*31 - 143*	*10/08/20 21:03*	*10/09/20 12:17*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.030		0.059	0.030	mg/Kg	☼	09/26/20 00:00	10/03/20 21:39	1

Client Sample ID: DUP-01 (092620)

Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5

Matrix: Solid
Percent Solids: 97.2

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.70		1.7	0.70	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
alpha-BHC	<0.43		1.7	0.43	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
beta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
cis-Chlordane	<0.86		1.7	0.86	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
4,4'-DDD	<0.34		1.7	0.34	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
4,4'-DDT	<0.89		1.7	0.89	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
delta-BHC	<0.53		1.7	0.53	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Dieldrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endosulfan I	<0.74		1.7	0.74	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endrin	<0.23		1.7	0.23	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endrin aldehyde	<0.29		1.7	0.29	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
gamma-BHC (Lindane)	<0.37		1.7	0.37	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Heptachlor	<0.71		1.7	0.71	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Heptachlor epoxide	<0.60		1.7	0.60	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Methoxychlor	<0.33		8.4	0.33	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
Toxaphene	<7.1		17	7.1	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1
trans-Chlordane	<0.44		1.7	0.44	ug/Kg	☼	10/09/20 06:43	10/10/20 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*33 - 148*	*10/09/20 06:43*	*10/10/20 09:18*	*1*
Tetrachloro-m-xylene	*104*		*30 - 121*	*10/09/20 06:43*	*10/10/20 09:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1221	<7.4		17	7.4	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1232	<7.4		17	7.4	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1248	<6.7		17	6.7	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
PCB-1260	<8.3		17	8.3	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg	☼	10/09/20 06:43	10/10/20 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*49 - 129*	*10/09/20 06:43*	*10/10/20 00:32*	*1*
DCB Decachlorobiphenyl	*99*		*37 - 121*	*10/09/20 06:43*	*10/10/20 00:32*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<96		340	96	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10
2,4-DB	<100		340	100	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10
Dicamba	<71		340	71	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10
Dichlorprop	<93		340	93	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10
Silvex (2,4,5-TP)	<87		340	87	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10
2,4,5-T	<83		340	83	ug/Kg	☼	10/07/20 07:34	10/09/20 16:04	10

Client Sample ID: DUP-01 (092620)

Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5

Matrix: Solid
Percent Solids: 97.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	69		25 - 120	10/07/20 07:34	10/09/20 16:04	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**4.8**	**B**	4.1	1.6	mg/Kg	☼	10/06/20 05:48	10/07/20 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	71		44 - 148	10/06/20 05:48	10/07/20 15:23	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.15		1.0	0.15	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
2,3,7,8-TCDF	<0.084		1.0	0.084	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,7,8-PeCDD	<0.11		5.1	0.11	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,7,8-PeCDF	<0.060		5.1	0.060	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
2,3,4,7,8-PeCDF	<0.071		5.1	0.071	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,4,7,8-HxCDD	**0.29**	**J q B**	5.1	0.029	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,6,7,8-HxCDD	**0.18**	**J q**	5.1	0.036	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,7,8,9-HxCDD	<0.030		5.1	0.030	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,4,7,8-HxCDF	**0.20**	**J**	5.1	0.049	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,6,7,8-HxCDF	**0.23**	**J q**	5.1	0.045	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,7,8,9-HxCDF	**0.29**	**J**	5.1	0.040	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
2,3,4,6,7,8-HxCDF	**0.20**	**J**	5.1	0.038	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,4,6,7,8-HpCDD	**0.95**	**J q B**	5.1	0.049	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,4,6,7,8-HpCDF	**0.43**	**J B**	5.1	0.023	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
1,2,3,4,7,8,9-HpCDF	**0.21**	**J q B**	5.1	0.026	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
OCDD	**6.7**	**J B**	10	0.040	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
OCDF	**1.1**	**J B**	10	0.092	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total TCDD	<0.15		1.0	0.15	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total TCDF	<0.084		1.0	0.084	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total PeCDD	<0.11		5.1	0.11	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total PeCDF	<0.21		5.1	0.21	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total HxCDD	**0.46**	**J q B**	5.1	0.032	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total HxCDF	**0.91**	**J q**	5.1	0.043	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total HpCDD	**2.1**	**J q B**	5.1	0.049	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1
Total HpCDF	**0.98**	**J q B**	5.1	0.025	pg/g	☼	10/01/20 04:48	10/11/20 00:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		25 - 164	10/01/20 04:48	10/11/20 00:50	1
13C-2,3,7,8-TCDF	68		24 - 169	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,7,8-PeCDD	72		25 - 181	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	10/01/20 04:48	10/11/20 00:50	1
13C-2,3,4,7,8-PeCDF	71		21 - 178	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,4,7,8-HxCDD	107		32 - 141	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,6,7,8-HxCDD	92		28 - 130	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,4,7,8-HxCDF	66		26 - 152	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,6,7,8-HxCDF	73		26 - 123	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,7,8,9-HxCDF	72		29 - 147	10/01/20 04:48	10/11/20 00:50	1
13C-2,3,4,6,7,8-HxCDF	72		28 - 136	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,4,6,7,8-HpCDD	74		23 - 140	10/01/20 04:48	10/11/20 00:50	1
13C-1,2,3,4,6,7,8-HpCDF	79		28 - 143	10/01/20 04:48	10/11/20 00:50	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092620)

Date Collected: 09/26/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-5

Matrix: Solid
Percent Solids: 97.2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	68		26 - 138	10/01/20 04:48	10/11/20 00:50	1
13C-OCDD	63		17 - 157	10/01/20 04:48	10/11/20 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	90		35 - 197	10/01/20 04:48	10/11/20 00:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		0.92	0.31	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Barium	**17**		0.92	0.10	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Cadmium	<0.033		0.18	0.033	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Chromium	**11**		0.92	0.45	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Lead	**1.7**		0.46	0.21	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Selenium	<0.54		0.92	0.54	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1
Silver	<0.12		0.46	0.12	mg/Kg	☼	10/07/20 18:14	10/08/20 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0052		0.016	0.0052	mg/Kg	☼	10/09/20 13:40	10/12/20 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	**0.72**		0.47	0.38	mg/Kg	☼	10/06/20 11:45	10/08/20 14:25	1
pH	**7.6**		0.2	0.2	SU			10/06/20 19:28	1
Percent Moisture	**2.8**		0.1	0.1	%			10/06/20 13:47	1
Percent Solids	**97.2**		0.1	0.1	%			10/06/20 13:47	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-02 (092720)
Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/06/20 02:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/06/20 02:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/06/20 02:57	1
Bromoform	<0.48		1.0	0.48	ug/L			10/06/20 02:57	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/06/20 02:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/06/20 02:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/06/20 02:57	1
Chloroform	<0.37		2.0	0.37	ug/L			10/06/20 02:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/06/20 02:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/06/20 02:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/06/20 02:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/06/20 02:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/06/20 02:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/06/20 02:57	1
1,2-Dibromo-3-Chloropropane	<2.0	*	5.0	2.0	ug/L			10/06/20 02:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/06/20 02:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/06/20 02:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/06/20 02:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/06/20 02:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/06/20 02:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/06/20 02:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/06/20 02:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/06/20 02:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/06/20 02:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/06/20 02:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/06/20 02:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/06/20 02:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/06/20 02:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 02:57	1
Styrene	<0.39		1.0	0.39	ug/L			10/06/20 02:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 02:57	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/06/20 02:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/06/20 02:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/06/20 02:57	1
Toluene	<0.15		0.50	0.15	ug/L			10/06/20 02:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/06/20 02:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/06/20 02:57	1

Client Sample ID: TW-02 (092720)
Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/06/20 02:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/06/20 02:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/06/20 02:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/06/20 02:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/06/20 02:57	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/06/20 02:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/06/20 02:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/06/20 02:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/06/20 02:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/06/20 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/06/20 02:57*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*10/06/20 02:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/06/20 02:57*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/06/20 02:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/01/20 06:31	10/02/20 05:39	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/01/20 06:31	10/02/20 05:39	1
Anthracene	<0.27		0.80	0.27	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzoic acid	<4.6		16	4.6	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/01/20 06:31	10/02/20 05:39	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/01/20 06:31	10/02/20 05:39	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 05:39	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 05:39	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/01/20 06:31	10/02/20 05:39	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/01/20 06:31	10/02/20 05:39	1
Carbazole	<0.28		4.0	0.28	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Chloronaphthalene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Chlorophenyl phenyl ether	<0.51	*1	4.0	0.51	ug/L		10/01/20 06:31	10/02/20 05:39	1
Chrysene	<0.055		0.16	0.055	ug/L		10/01/20 06:31	10/02/20 05:39	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/01/20 06:31	10/02/20 05:39	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/01/20 06:31	10/02/20 05:39	1
1,2-Dichlorobenzene	<0.20	*1	1.6	0.20	ug/L		10/01/20 06:31	10/02/20 05:39	1
1,3-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 05:39	1
1,4-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 05:39	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 05:39	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 05:39	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-02 (092720)
Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/01/20 06:31	10/02/20 05:39	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/01/20 06:31	10/02/20 05:39	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/01/20 06:31	10/02/20 05:39	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		10/01/20 06:31	10/02/20 05:39	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 05:39	1
Fluorene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 05:39	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/01/20 06:31	10/02/20 05:39	1
Hexachlorobutadiene	<0.41	*1	4.0	0.41	ug/L		10/01/20 06:31	10/02/20 05:39	1
Hexachlorocyclopentadiene	<5.1	*1	16	5.1	ug/L		10/01/20 06:31	10/02/20 05:39	1
Hexachloroethane	<0.48	*1	4.0	0.48	ug/L		10/01/20 06:31	10/02/20 05:39	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/01/20 06:31	10/02/20 05:39	1
Isophorone	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 05:39	1
1-Methylnaphthalene	<0.24	*1	1.6	0.24	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Methylnaphthalene	<0.052	*1	1.6	0.052	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/01/20 06:31	10/02/20 05:39	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/01/20 06:31	10/02/20 05:39	1
Naphthalene	<0.25	*1	0.80	0.25	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/01/20 06:31	10/02/20 05:39	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/01/20 06:31	10/02/20 05:39	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 05:39	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/01/20 06:31	10/02/20 05:39	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/01/20 06:31	10/02/20 05:39	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/01/20 06:31	10/02/20 05:39	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 05:39	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/01/20 06:31	10/02/20 05:39	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/01/20 06:31	10/02/20 05:39	1
Phenol	<0.54		4.0	0.54	ug/L		10/01/20 06:31	10/02/20 05:39	1
Pyrene	<0.34		0.80	0.34	ug/L		10/01/20 06:31	10/02/20 05:39	1
1,2,4-Trichlorobenzene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 05:39	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/01/20 06:31	10/02/20 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*34 - 110*	*10/01/20 06:31*	*10/02/20 05:39*	*1*
2-Fluorophenol (Surr)	*61*		*27 - 110*	*10/01/20 06:31*	*10/02/20 05:39*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*10/01/20 06:31*	*10/02/20 05:39*	*1*
Phenol-d5 (Surr)	*51*		*20 - 110*	*10/01/20 06:31*	*10/02/20 05:39*	*1*
Terphenyl-d14 (Surr)	*109*		*40 - 145*	*10/01/20 06:31*	*10/02/20 05:39*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*40 - 145*	*10/01/20 06:31*	*10/02/20 05:39*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/03/20 23:58	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-02 (092720)

Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0055	*1	0.042	0.0055	ug/L		10/01/20 06:15	10/02/20 22:01	1
alpha-BHC	<0.0027		0.042	0.0027	ug/L		10/01/20 06:15	10/02/20 22:01	1
beta-BHC	<0.011		0.042	0.011	ug/L		10/01/20 06:15	10/02/20 22:01	1
cis-Chlordane	<0.0046		0.042	0.0046	ug/L		10/01/20 06:15	10/02/20 22:01	1
4,4'-DDD	<0.014		0.042	0.014	ug/L		10/01/20 06:15	10/02/20 22:01	1
4,4'-DDE	<0.0040		0.042	0.0040	ug/L		10/01/20 06:15	10/02/20 22:01	1
4,4'-DDT	<0.0033		0.042	0.0033	ug/L		10/01/20 06:15	10/02/20 22:01	1
delta-BHC	<0.011		0.042	0.011	ug/L		10/01/20 06:15	10/02/20 22:01	1
Dieldrin	<0.013		0.042	0.013	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endosulfan I	<0.0043		0.042	0.0043	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endosulfan II	<0.0029		0.042	0.0029	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endosulfan sulfate	<0.012		0.042	0.012	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endrin	<0.015		0.042	0.015	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endrin aldehyde	<0.0085		0.042	0.0085	ug/L		10/01/20 06:15	10/02/20 22:01	1
Endrin ketone	<0.018		0.042	0.018	ug/L		10/01/20 06:15	10/02/20 22:01	1
gamma-BHC (Lindane)	<0.0058		0.042	0.0058	ug/L		10/01/20 06:15	10/02/20 22:01	1
Heptachlor	<0.014	*1	0.042	0.014	ug/L		10/01/20 06:15	10/02/20 22:01	1
Heptachlor epoxide	<0.014		0.042	0.014	ug/L		10/01/20 06:15	10/02/20 22:01	1
Methoxychlor	<0.024		0.083	0.024	ug/L		10/01/20 06:15	10/02/20 22:01	1
Toxaphene	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/02/20 22:01	1
trans-Chlordane	<0.0075		0.042	0.0075	ug/L		10/01/20 06:15	10/02/20 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*30 - 130*	*10/01/20 06:15*	*10/02/20 22:01*	*1*
Tetrachloro-m-xylene	*69*		*30 - 120*	*10/01/20 06:15*	*10/02/20 22:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.070		0.42	0.070	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1221	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1232	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1242	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1248	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1254	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1
PCB-1260	<0.073		0.42	0.073	ug/L		10/01/20 06:15	10/03/20 00:03	1
Polychlorinated biphenyls, Total	<0.21		0.42	0.21	ug/L		10/01/20 06:15	10/03/20 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 120*	*10/01/20 06:15*	*10/03/20 00:03*	*1*
DCB Decachlorobiphenyl	*142*	*X*	*30 - 140*	*10/01/20 06:15*	*10/03/20 00:03*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.51		1.1	0.51	ug/L		09/30/20 10:10	10/01/20 14:30	1
2,4-DB	<0.13		1.1	0.13	ug/L		09/30/20 10:10	10/01/20 14:30	1
Dicamba	<0.084		1.1	0.084	ug/L		09/30/20 10:10	10/01/20 14:30	1
Dichlorprop	<0.40		1.1	0.40	ug/L		09/30/20 10:10	10/01/20 14:30	1
Silvex (2,4,5-TP)	<0.32		1.1	0.32	ug/L		09/30/20 10:10	10/01/20 14:30	1
2,4,5-T	<0.48		1.1	0.48	ug/L		09/30/20 10:10	10/01/20 14:30	1

Client Sample ID: TW-02 (092720)

Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	64		25 - 130	09/30/20 10:10	10/01/20 14:30	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.30		0.10	0.034	mg/L		10/02/20 13:24	10/03/20 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	54		42 - 111	10/02/20 13:24	10/03/20 00:17	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.44		12	0.44	pg/L		10/01/20 08:42	10/08/20 14:19	1
2,3,7,8-TCDF	1.2	J B	12	0.37	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,7,8-PeCDD	3.6	J q B	58	0.64	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,7,8-PeCDF	3.7	J B	58	0.55	pg/L		10/01/20 08:42	10/08/20 14:19	1
2,3,4,7,8-PeCDF	4.0	J B	58	0.59	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,4,7,8-HxCDD	6.9	J B	58	1.0	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,6,7,8-HxCDD	5.5	J B	58	1.1	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,7,8,9-HxCDD	5.6	J B	58	1.0	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,4,7,8-HxCDF	6.1	J B	58	0.67	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,6,7,8-HxCDF	6.2	J B	58	0.67	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,7,8,9-HxCDF	5.9	J B	58	0.50	pg/L		10/01/20 08:42	10/08/20 14:19	1
2,3,4,6,7,8-HxCDF	5.6	J B	58	0.77	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,4,6,7,8-HpCDD	11	J B	58	0.34	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,4,6,7,8-HpCDF	17	J B	58	0.34	pg/L		10/01/20 08:42	10/08/20 14:19	1
1,2,3,4,7,8,9-HpCDF	14	J B	58	0.38	pg/L		10/01/20 08:42	10/08/20 14:19	1
OCDD	31	J B	120	0.44	pg/L		10/01/20 08:42	10/08/20 14:19	1
OCDF	120	B	120	0.45	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total TCDD	3.8	J B	12	0.44	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total TCDF	1.2	J B	12	0.37	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total PeCDD	3.6	J q B	58	0.64	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total PeCDF	7.7	J B	58	0.57	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total HxCDD	18	J B	58	1.1	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total HxCDF	24	J B	58	0.65	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total HpCDD	15	J B	58	0.34	pg/L		10/01/20 08:42	10/08/20 14:19	1
Total HpCDF	39	J B	58	0.36	pg/L		10/01/20 08:42	10/08/20 14:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	80		25 - 164	10/01/20 08:42	10/08/20 14:19	1
13C-2,3,7,8-TCDF	82		24 - 169	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,7,8-PeCDD	79		25 - 181	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,7,8-PeCDF	69		24 - 185	10/01/20 08:42	10/08/20 14:19	1
13C-2,3,4,7,8-PeCDF	70		21 - 178	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,4,7,8-HxCDD	89		32 - 141	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,6,7,8-HxCDD	90		28 - 130	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,4,7,8-HxCDF	77		26 - 152	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,7,8,9-HxCDF	80		29 - 147	10/01/20 08:42	10/08/20 14:19	1
13C-2,3,4,6,7,8-HxCDF	77		28 - 136	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,4,6,7,8-HpCDD	86		23 - 140	10/01/20 08:42	10/08/20 14:19	1
13C-1,2,3,4,6,7,8-HpCDF	85		28 - 143	10/01/20 08:42	10/08/20 14:19	1

Client Sample ID: TW-02 (092720)

Date Collected: 09/27/20 07:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-6

Matrix: Water

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8,9-HpCDF	*85*		*26 - 138*	*10/01/20 08:42*	*10/08/20 14:19*	*1*
13C-OCDD	*97*		*17 - 157*	*10/01/20 08:42*	*10/08/20 14:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*95*		*35 - 197*	*10/01/20 08:42*	*10/08/20 14:19*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.57**	**J**	1.0	0.23	ug/L		09/30/20 07:23	10/01/20 11:51	1
Barium	**180**		2.5	0.73	ug/L		09/30/20 07:23	10/01/20 11:51	1
Cadmium	<0.17		0.50	0.17	ug/L		09/30/20 07:23	10/01/20 11:51	1
Chromium	**3.6**	**J**	5.0	1.1	ug/L		09/30/20 07:23	10/01/20 11:51	1
Lead	**0.54**		0.50	0.19	ug/L		09/30/20 07:23	10/01/20 11:51	1
Selenium	**2.1**	**J**	2.5	0.98	ug/L		09/30/20 07:23	10/01/20 11:51	1
Silver	<0.12		0.50	0.12	ug/L		09/30/20 07:23	10/01/20 11:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/06/20 09:20	10/07/20 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/06/20 06:30	10/07/20 10:56	1
pH	**6.7**	**HF**	0.2	0.2	SU			10/02/20 14:05	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-01 (092720)
Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/06/20 03:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/06/20 03:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/06/20 03:24	1
Bromoform	<0.48		1.0	0.48	ug/L			10/06/20 03:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/06/20 03:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/06/20 03:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/06/20 03:24	1
Chloroform	<0.37		2.0	0.37	ug/L			10/06/20 03:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/06/20 03:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/06/20 03:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/06/20 03:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/06/20 03:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/06/20 03:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/06/20 03:24	1
1,2-Dibromo-3-Chloropropane	<2.0	*	5.0	2.0	ug/L			10/06/20 03:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/06/20 03:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/06/20 03:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/06/20 03:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/06/20 03:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/06/20 03:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/06/20 03:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/06/20 03:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/06/20 03:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/06/20 03:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/06/20 03:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/06/20 03:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/06/20 03:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:24	1
Styrene	<0.39		1.0	0.39	ug/L			10/06/20 03:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/06/20 03:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/06/20 03:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/06/20 03:24	1
Toluene	<0.15		0.50	0.15	ug/L			10/06/20 03:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/06/20 03:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/06/20 03:24	1

Client Sample ID: TW-01 (092720)
Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/06/20 03:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/06/20 03:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/06/20 03:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/06/20 03:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/06/20 03:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/06/20 03:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/06/20 03:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/06/20 03:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/06/20 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/06/20 03:24*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*10/06/20 03:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/06/20 03:24*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/06/20 03:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/01/20 06:31	10/02/20 06:07	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/01/20 06:31	10/02/20 06:07	1
Anthracene	<0.27		0.80	0.27	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzoic acid	<4.6		16	4.6	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/01/20 06:31	10/02/20 06:07	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/01/20 06:31	10/02/20 06:07	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 06:07	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 06:07	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/01/20 06:31	10/02/20 06:07	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/01/20 06:31	10/02/20 06:07	1
Carbazole	<0.28		4.0	0.28	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Chloronaphthalene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Chlorophenyl phenyl ether	<0.51	*1	4.0	0.51	ug/L		10/01/20 06:31	10/02/20 06:07	1
Chrysene	<0.055		0.16	0.055	ug/L		10/01/20 06:31	10/02/20 06:07	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/01/20 06:31	10/02/20 06:07	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/01/20 06:31	10/02/20 06:07	1
1,2-Dichlorobenzene	<0.20	*1	1.6	0.20	ug/L		10/01/20 06:31	10/02/20 06:07	1
1,3-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 06:07	1
1,4-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 06:07	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 06:07	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:07	1

Client Sample ID: TW-01 (092720)
Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/01/20 06:31	10/02/20 06:07	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/01/20 06:31	10/02/20 06:07	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/01/20 06:31	10/02/20 06:07	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		10/01/20 06:31	10/02/20 06:07	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 06:07	1
Fluorene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 06:07	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/01/20 06:31	10/02/20 06:07	1
Hexachlorobutadiene	<0.41	*1	4.0	0.41	ug/L		10/01/20 06:31	10/02/20 06:07	1
Hexachlorocyclopentadiene	<5.1	*1	16	5.1	ug/L		10/01/20 06:31	10/02/20 06:07	1
Hexachloroethane	<0.48	*1	4.0	0.48	ug/L		10/01/20 06:31	10/02/20 06:07	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/01/20 06:31	10/02/20 06:07	1
Isophorone	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:07	1
1-Methylnaphthalene	<0.24	*1	1.6	0.24	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Methylnaphthalene	<0.052	*1	1.6	0.052	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/01/20 06:31	10/02/20 06:07	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/01/20 06:31	10/02/20 06:07	1
Naphthalene	<0.25	*1	0.80	0.25	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/01/20 06:31	10/02/20 06:07	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/01/20 06:31	10/02/20 06:07	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 06:07	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/01/20 06:31	10/02/20 06:07	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/01/20 06:31	10/02/20 06:07	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/01/20 06:31	10/02/20 06:07	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:07	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/01/20 06:31	10/02/20 06:07	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/01/20 06:31	10/02/20 06:07	1
Phenol	<0.54		4.0	0.54	ug/L		10/01/20 06:31	10/02/20 06:07	1
Pyrene	<0.34		0.80	0.34	ug/L		10/01/20 06:31	10/02/20 06:07	1
1,2,4-Trichlorobenzene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 06:07	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/01/20 06:31	10/02/20 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*34 - 110*	*10/01/20 06:31*	*10/02/20 06:07*	*1*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*10/01/20 06:31*	*10/02/20 06:07*	*1*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*	*10/01/20 06:31*	*10/02/20 06:07*	*1*
Phenol-d5 (Surr)	*38*		*20 - 110*	*10/01/20 06:31*	*10/02/20 06:07*	*1*
Terphenyl-d14 (Surr)	*123*		*40 - 145*	*10/01/20 06:31*	*10/02/20 06:07*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*40 - 145*	*10/01/20 06:31*	*10/02/20 06:07*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/04/20 00:33	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-01 (092720)

Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0057	*1	0.043	0.0057	ug/L		10/01/20 06:15	10/02/20 22:20	1
alpha-BHC	<0.0028		0.043	0.0028	ug/L		10/01/20 06:15	10/02/20 22:20	1
beta-BHC	<0.011		0.043	0.011	ug/L		10/01/20 06:15	10/02/20 22:20	1
cis-Chlordane	<0.0047		0.043	0.0047	ug/L		10/01/20 06:15	10/02/20 22:20	1
4,4'-DDD	<0.014		0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:20	1
4,4'-DDE	<0.0041		0.043	0.0041	ug/L		10/01/20 06:15	10/02/20 22:20	1
4,4'-DDT	<0.0034		0.043	0.0034	ug/L		10/01/20 06:15	10/02/20 22:20	1
delta-BHC	<0.011		0.043	0.011	ug/L		10/01/20 06:15	10/02/20 22:20	1
Dieldrin	<0.014		0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endosulfan I	<0.0044		0.043	0.0044	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endosulfan II	<0.0030		0.043	0.0030	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endosulfan sulfate	<0.012		0.043	0.012	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endrin	<0.015		0.043	0.015	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endrin aldehyde	<0.0088		0.043	0.0088	ug/L		10/01/20 06:15	10/02/20 22:20	1
Endrin ketone	<0.018		0.043	0.018	ug/L		10/01/20 06:15	10/02/20 22:20	1
gamma-BHC (Lindane)	<0.0060		0.043	0.0060	ug/L		10/01/20 06:15	10/02/20 22:20	1
Heptachlor	<0.014	*1	0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:20	1
Heptachlor epoxide	<0.015		0.043	0.015	ug/L		10/01/20 06:15	10/02/20 22:20	1
Methoxychlor	<0.025		0.085	0.025	ug/L		10/01/20 06:15	10/02/20 22:20	1
Toxaphene	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/02/20 22:20	1
trans-Chlordane	<0.0077		0.043	0.0077	ug/L		10/01/20 06:15	10/02/20 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*30 - 130*	*10/01/20 06:15*	*10/02/20 22:20*	*1*
Tetrachloro-m-xylene	*65*		*30 - 120*	*10/01/20 06:15*	*10/02/20 22:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.43	0.072	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1221	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1232	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1242	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1248	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1254	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1
PCB-1260	<0.075		0.43	0.075	ug/L		10/01/20 06:15	10/03/20 00:19	1
Polychlorinated biphenyls, Total	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 120*	*10/01/20 06:15*	*10/03/20 00:19*	*1*
DCB Decachlorobiphenyl	*120*		*30 - 140*	*10/01/20 06:15*	*10/03/20 00:19*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.54		1.2	0.54	ug/L		09/30/20 10:10	10/01/20 14:50	1
2,4-DB	<0.14		1.2	0.14	ug/L		09/30/20 10:10	10/01/20 14:50	1
Dicamba	<0.089		1.2	0.089	ug/L		09/30/20 10:10	10/01/20 14:50	1
Dichlorprop	<0.42		1.2	0.42	ug/L		09/30/20 10:10	10/01/20 14:50	1
Silvex (2,4,5-TP)	<0.33		1.2	0.33	ug/L		09/30/20 10:10	10/01/20 14:50	1
2,4,5-T	<0.50		1.2	0.50	ug/L		09/30/20 10:10	10/01/20 14:50	1

Client Sample ID: TW-01 (092720)

Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	67		25 - 130	09/30/20 10:10	10/01/20 14:50	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**0.56**		0.10	0.033	mg/L		10/02/20 13:24	10/03/20 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	59		42 - 111	10/02/20 13:24	10/03/20 00:53	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.47		11	0.47	pg/L		10/01/20 08:42	10/08/20 15:06	1
2,3,7,8-TCDF	<0.29		11	0.29	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,7,8-PeCDD	<0.56		57	0.56	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,7,8-PeCDF	**0.83**	**J B**	57	0.41	pg/L		10/01/20 08:42	10/08/20 15:06	1
2,3,4,7,8-PeCDF	<0.46		57	0.46	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,4,7,8-HxCDD	**2.3**	**J B**	57	0.72	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,6,7,8-HxCDD	<0.82		57	0.82	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,7,8,9-HxCDD	<0.71		57	0.71	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,4,7,8-HxCDF	<0.59		57	0.59	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,6,7,8-HxCDF	<0.62		57	0.62	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,7,8,9-HxCDF	**1.0**	**J q B**	57	0.46	pg/L		10/01/20 08:42	10/08/20 15:06	1
2,3,4,6,7,8-HxCDF	<0.71		57	0.71	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,4,6,7,8-HpCDD	**1.3**	**J q B**	57	0.26	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,4,6,7,8-HpCDF	<0.26		57	0.26	pg/L		10/01/20 08:42	10/08/20 15:06	1
1,2,3,4,7,8,9-HpCDF	**0.81**	**J q B**	57	0.27	pg/L		10/01/20 08:42	10/08/20 15:06	1
OCDD	**4.7**	**J B**	110	0.33	pg/L		10/01/20 08:42	10/08/20 15:06	1
OCDF	**3.1**	**J B**	110	0.28	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total TCDD	**5.2**	**J q B**	11	0.47	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total TCDF	<0.29		11	0.29	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total PeCDD	<0.56		57	0.56	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total PeCDF	**0.83**	**J B**	57	0.44	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total HxCDD	**2.3**	**J B**	57	0.75	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total HxCDF	**1.0**	**J q B**	57	0.59	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total HpCDD	**2.9**	**J q B**	57	0.26	pg/L		10/01/20 08:42	10/08/20 15:06	1
Total HpCDF	**0.81**	**J q B**	57	0.27	pg/L		10/01/20 08:42	10/08/20 15:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	87		25 - 164	10/01/20 08:42	10/08/20 15:06	1
13C-2,3,7,8-TCDF	86		24 - 169	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,7,8-PeCDD	81		25 - 181	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,7,8-PeCDF	74		24 - 185	10/01/20 08:42	10/08/20 15:06	1
13C-2,3,4,7,8-PeCDF	73		21 - 178	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,4,7,8-HxCDD	99		32 - 141	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,6,7,8-HxCDD	94		28 - 130	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,4,7,8-HxCDF	83		26 - 152	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,6,7,8-HxCDF	83		26 - 123	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,7,8,9-HxCDF	87		29 - 147	10/01/20 08:42	10/08/20 15:06	1
13C-2,3,4,6,7,8-HxCDF	81		28 - 136	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,4,6,7,8-HpCDD	91		23 - 140	10/01/20 08:42	10/08/20 15:06	1
13C-1,2,3,4,6,7,8-HpCDF	89		28 - 143	10/01/20 08:42	10/08/20 15:06	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-01 (092720)

Date Collected: 09/27/20 10:05
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-7

Matrix: Water

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8,9-HpCDF	*92*		*26 - 138*	*10/01/20 08:42*	*10/08/20 15:06*	*1*
13C-OCDD	*103*		*17 - 157*	*10/01/20 08:42*	*10/08/20 15:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*96*		*35 - 197*	*10/01/20 08:42*	*10/08/20 15:06*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/30/20 07:23	10/01/20 11:54	1
Barium	**28**		2.5	0.73	ug/L		09/30/20 07:23	10/01/20 11:54	1
Cadmium	<0.17		0.50	0.17	ug/L		09/30/20 07:23	10/01/20 11:54	1
Chromium	<1.1		5.0	1.1	ug/L		09/30/20 07:23	10/01/20 11:54	1
Lead	<0.19		0.50	0.19	ug/L		09/30/20 07:23	10/01/20 11:54	1
Selenium	<0.98		2.5	0.98	ug/L		09/30/20 07:23	10/01/20 11:54	1
Silver	<0.12		0.50	0.12	ug/L		09/30/20 07:23	10/01/20 11:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/06/20 09:20	10/07/20 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/06/20 06:30	10/07/20 10:58	1
pH	**6.7**	**HF**	0.2	0.2	SU			10/02/20 14:10	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092720)

Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/06/20 03:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/06/20 03:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/06/20 03:51	1
Bromoform	<0.48		1.0	0.48	ug/L			10/06/20 03:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/06/20 03:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/06/20 03:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/06/20 03:51	1
Chloroform	<0.37		2.0	0.37	ug/L			10/06/20 03:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/06/20 03:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/06/20 03:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/06/20 03:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/06/20 03:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/06/20 03:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/06/20 03:51	1
1,2-Dibromo-3-Chloropropane	<2.0	*	5.0	2.0	ug/L			10/06/20 03:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/06/20 03:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/06/20 03:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/06/20 03:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/06/20 03:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/06/20 03:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/06/20 03:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/06/20 03:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/06/20 03:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/06/20 03:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/06/20 03:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/06/20 03:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/06/20 03:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:51	1
Styrene	<0.39		1.0	0.39	ug/L			10/06/20 03:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/06/20 03:51	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/06/20 03:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/06/20 03:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/06/20 03:51	1
Toluene	<0.15		0.50	0.15	ug/L			10/06/20 03:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/06/20 03:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/06/20 03:51	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092720)

Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/06/20 03:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/06/20 03:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/06/20 03:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/06/20 03:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/06/20 03:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/06/20 03:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/06/20 03:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/06/20 03:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/06/20 03:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/06/20 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/06/20 03:51*	*1*
Dibromofluoromethane (Surr)	*89*		*75 - 120*		*10/06/20 03:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*10/06/20 03:51*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*10/06/20 03:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/01/20 06:31	10/02/20 06:35	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/01/20 06:31	10/02/20 06:35	1
Anthracene	<0.27		0.80	0.27	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzoic acid	<4.6		16	4.6	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/01/20 06:31	10/02/20 06:35	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/01/20 06:31	10/02/20 06:35	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 06:35	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 06:35	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/01/20 06:31	10/02/20 06:35	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/01/20 06:31	10/02/20 06:35	1
Carbazole	<0.28		4.0	0.28	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Chloronaphthalene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Chlorophenyl phenyl ether	<0.51	*1	4.0	0.51	ug/L		10/01/20 06:31	10/02/20 06:35	1
Chrysene	<0.055		0.16	0.055	ug/L		10/01/20 06:31	10/02/20 06:35	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/01/20 06:31	10/02/20 06:35	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/01/20 06:31	10/02/20 06:35	1
1,2-Dichlorobenzene	<0.20	*1	1.6	0.20	ug/L		10/01/20 06:31	10/02/20 06:35	1
1,3-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 06:35	1
1,4-Dichlorobenzene	<0.17	*1	1.6	0.17	ug/L		10/01/20 06:31	10/02/20 06:35	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 06:35	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:35	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092720)
Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/01/20 06:31	10/02/20 06:35	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/01/20 06:31	10/02/20 06:35	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/01/20 06:31	10/02/20 06:35	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		10/01/20 06:31	10/02/20 06:35	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 06:35	1
Fluorene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 06:35	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/01/20 06:31	10/02/20 06:35	1
Hexachlorobutadiene	<0.41	*1	4.0	0.41	ug/L		10/01/20 06:31	10/02/20 06:35	1
Hexachlorocyclopentadiene	<5.1	*1	16	5.1	ug/L		10/01/20 06:31	10/02/20 06:35	1
Hexachloroethane	<0.48	*1	4.0	0.48	ug/L		10/01/20 06:31	10/02/20 06:35	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/01/20 06:31	10/02/20 06:35	1
Isophorone	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:35	1
1-Methylnaphthalene	<0.24	*1	1.6	0.24	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Methylnaphthalene	<0.052	*1	1.6	0.052	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/01/20 06:31	10/02/20 06:35	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/01/20 06:31	10/02/20 06:35	1
Naphthalene	<0.25	*1	0.80	0.25	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/01/20 06:31	10/02/20 06:35	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/01/20 06:31	10/02/20 06:35	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 06:35	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/01/20 06:31	10/02/20 06:35	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/01/20 06:31	10/02/20 06:35	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/01/20 06:31	10/02/20 06:35	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 06:35	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/01/20 06:31	10/02/20 06:35	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/01/20 06:31	10/02/20 06:35	1
Phenol	<0.54		4.0	0.54	ug/L		10/01/20 06:31	10/02/20 06:35	1
Pyrene	<0.34		0.80	0.34	ug/L		10/01/20 06:31	10/02/20 06:35	1
1,2,4-Trichlorobenzene	<0.19	*1	1.6	0.19	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 06:35	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/01/20 06:31	10/02/20 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*	*10/01/20 06:31*	*10/02/20 06:35*	*1*
2-Fluorophenol (Surr)	*55*		*27 - 110*	*10/01/20 06:31*	*10/02/20 06:35*	*1*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*	*10/01/20 06:31*	*10/02/20 06:35*	*1*
Phenol-d5 (Surr)	*45*		*20 - 110*	*10/01/20 06:31*	*10/02/20 06:35*	*1*
Terphenyl-d14 (Surr)	*114*		*40 - 145*	*10/01/20 06:31*	*10/02/20 06:35*	*1*
2,4,6-Tribromophenol (Surr)	*105*		*40 - 145*	*10/01/20 06:31*	*10/02/20 06:35*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/04/20 01:08	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092720)

Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0057	*1	0.043	0.0057	ug/L		10/01/20 06:15	10/02/20 22:39	1
alpha-BHC	<0.0028		0.043	0.0028	ug/L		10/01/20 06:15	10/02/20 22:39	1
beta-BHC	<0.011		0.043	0.011	ug/L		10/01/20 06:15	10/02/20 22:39	1
cis-Chlordane	<0.0047		0.043	0.0047	ug/L		10/01/20 06:15	10/02/20 22:39	1
4,4'-DDD	<0.014		0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:39	1
4,4'-DDE	<0.0041		0.043	0.0041	ug/L		10/01/20 06:15	10/02/20 22:39	1
4,4'-DDT	<0.0034		0.043	0.0034	ug/L		10/01/20 06:15	10/02/20 22:39	1
delta-BHC	<0.011		0.043	0.011	ug/L		10/01/20 06:15	10/02/20 22:39	1
Dieldrin	<0.014		0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endosulfan I	<0.0044		0.043	0.0044	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endosulfan II	<0.0030		0.043	0.0030	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endosulfan sulfate	<0.013		0.043	0.013	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endrin	<0.015		0.043	0.015	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endrin aldehyde	<0.0088		0.043	0.0088	ug/L		10/01/20 06:15	10/02/20 22:39	1
Endrin ketone	<0.018		0.043	0.018	ug/L		10/01/20 06:15	10/02/20 22:39	1
gamma-BHC (Lindane)	<0.0060		0.043	0.0060	ug/L		10/01/20 06:15	10/02/20 22:39	1
Heptachlor	<0.014	*1	0.043	0.014	ug/L		10/01/20 06:15	10/02/20 22:39	1
Heptachlor epoxide	<0.015		0.043	0.015	ug/L		10/01/20 06:15	10/02/20 22:39	1
Methoxychlor	<0.025		0.086	0.025	ug/L		10/01/20 06:15	10/02/20 22:39	1
Toxaphene	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/02/20 22:39	1
trans-Chlordane	<0.0077		0.043	0.0077	ug/L		10/01/20 06:15	10/02/20 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*30 - 130*	*10/01/20 06:15*	*10/02/20 22:39*	*1*
Tetrachloro-m-xylene	*76*		*30 - 120*	*10/01/20 06:15*	*10/02/20 22:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.072		0.43	0.072	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1221	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1232	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1242	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1248	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1254	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1
PCB-1260	<0.075		0.43	0.075	ug/L		10/01/20 06:15	10/03/20 00:35	1
Polychlorinated biphenyls, Total	<0.21		0.43	0.21	ug/L		10/01/20 06:15	10/03/20 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 120*	*10/01/20 06:15*	*10/03/20 00:35*	*1*
DCB Decachlorobiphenyl	*125*		*30 - 140*	*10/01/20 06:15*	*10/03/20 00:35*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.52		1.1	0.52	ug/L		09/30/20 10:10	10/01/20 15:09	1
2,4-DB	<0.14		1.1	0.14	ug/L		09/30/20 10:10	10/01/20 15:09	1
Dicamba	<0.086		1.1	0.086	ug/L		09/30/20 10:10	10/01/20 15:09	1
Dichlorprop	<0.41		1.1	0.41	ug/L		09/30/20 10:10	10/01/20 15:09	1
Silvex (2,4,5-TP)	<0.32		1.1	0.32	ug/L		09/30/20 10:10	10/01/20 15:09	1
2,4,5-T	<0.48		1.1	0.48	ug/L		09/30/20 10:10	10/01/20 15:09	1

Client Sample ID: DUP-01 (092720)

Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	69		25 - 130	09/30/20 10:10	10/01/20 15:09	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**0.42**		0.10	0.033	mg/L		10/02/20 13:24	10/03/20 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	66		42 - 111	10/02/20 13:24	10/03/20 01:28	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.43		12	0.43	pg/L		10/01/20 08:42	10/08/20 15:54	1
2,3,7,8-TCDF	<0.26		12	0.26	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,7,8-PeCDD	<0.56		58	0.56	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,7,8-PeCDF	**0.77**	**J B**	58	0.36	pg/L		10/01/20 08:42	10/08/20 15:54	1
2,3,4,7,8-PeCDF	<0.42		58	0.42	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,4,7,8-HxCDD	**2.2**	**J B**	58	0.69	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,6,7,8-HxCDD	<0.80		58	0.80	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,7,8,9-HxCDD	<0.68		58	0.68	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,4,7,8-HxCDF	<0.47		58	0.47	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,6,7,8-HxCDF	<0.51		58	0.51	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,7,8,9-HxCDF	<0.36		58	0.36	pg/L		10/01/20 08:42	10/08/20 15:54	1
2,3,4,6,7,8-HxCDF	<0.55		58	0.55	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,4,6,7,8-HpCDD	**1.3**	**J B**	58	0.24	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,4,6,7,8-HpCDF	**1.4**	**J q B**	58	0.23	pg/L		10/01/20 08:42	10/08/20 15:54	1
1,2,3,4,7,8,9-HpCDF	**0.84**	**J B**	58	0.23	pg/L		10/01/20 08:42	10/08/20 15:54	1
OCDD	**4.6**	**J B**	120	0.33	pg/L		10/01/20 08:42	10/08/20 15:54	1
OCDF	**3.6**	**J B**	120	0.29	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total TCDD	**5.1**	**J B**	12	0.43	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total TCDF	<0.26		12	0.26	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total PeCDD	<0.56		58	0.56	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total PeCDF	**0.77**	**J B**	58	0.39	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total HxCDD	**2.2**	**J B**	58	0.72	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total HxCDF	<0.55		58	0.55	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total HpCDD	**1.3**	**J B**	58	0.24	pg/L		10/01/20 08:42	10/08/20 15:54	1
Total HpCDF	**2.2**	**J q B**	58	0.23	pg/L		10/01/20 08:42	10/08/20 15:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	84		25 - 164	10/01/20 08:42	10/08/20 15:54	1
13C-2,3,7,8-TCDF	81		24 - 169	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,7,8-PeCDD	76		25 - 181	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,7,8-PeCDF	71		24 - 185	10/01/20 08:42	10/08/20 15:54	1
13C-2,3,4,7,8-PeCDF	68		21 - 178	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,4,7,8-HxCDD	91		32 - 141	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,6,7,8-HxCDD	90		28 - 130	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,4,7,8-HxCDF	78		26 - 152	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,7,8,9-HxCDF	83		29 - 147	10/01/20 08:42	10/08/20 15:54	1
13C-2,3,4,6,7,8-HxCDF	77		28 - 136	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,4,6,7,8-HpCDD	86		23 - 140	10/01/20 08:42	10/08/20 15:54	1
13C-1,2,3,4,6,7,8-HpCDF	83		28 - 143	10/01/20 08:42	10/08/20 15:54	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: DUP-01 (092720)

Date Collected: 09/27/20 00:00
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-8

Matrix: Water

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8,9-HpCDF	*84*		*26 - 138*	*10/01/20 08:42*	*10/08/20 15:54*	*1*
13C-OCDD	*100*		*17 - 157*	*10/01/20 08:42*	*10/08/20 15:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*97*		*35 - 197*	*10/01/20 08:42*	*10/08/20 15:54*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.84**	**J**	1.0	0.23	ug/L		09/30/20 07:23	10/01/20 11:58	1
Barium	**180**		2.5	0.73	ug/L		09/30/20 07:23	10/01/20 11:58	1
Cadmium	<0.17		0.50	0.17	ug/L		09/30/20 07:23	10/01/20 11:58	1
Chromium	**8.4**		5.0	1.1	ug/L		09/30/20 07:23	10/01/20 11:58	1
Lead	**1.0**		0.50	0.19	ug/L		09/30/20 07:23	10/01/20 11:58	1
Selenium	**2.2**	**J**	2.5	0.98	ug/L		09/30/20 07:23	10/01/20 11:58	1
Silver	<0.12		0.50	0.12	ug/L		09/30/20 07:23	10/01/20 11:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/06/20 09:20	10/07/20 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/06/20 06:30	10/07/20 10:59	1
pH	**6.7**	**HF**	0.2	0.2	SU			10/02/20 14:15	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-188477-1	SB-01 (0-4)	91	88	102	92
500-188477-2	SB-01 (28-31)	92	86	100	93
500-188477-3	SB-03 (0-4)	91	86	101	92
500-188477-4	SB-03 (24-27.5)	92	87	100	94
500-188477-4 MS	SB-03 (24-27.5)	89	92	98	94
500-188477-4 MSD	SB-03 (24-27.5)	86	94	102	92
500-188477-5	DUP-01 (092620)	91	88	101	93
LB3 500-564550/19-A	Method Blank	107	87	91	101
LCS 500-564550/20-A	Lab Control Sample	98	93	92	105
LCS 500-564576/5	Lab Control Sample	100	100	91	96
LCS 500-564990/5	Lab Control Sample	88	91	96	95
MB 500-564576/7	Method Blank	115	94	92	102
MB 500-564990/7	Method Blank	92	89	101	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-188477-6	TW-02 (092720)	92	90	101	93
500-188477-7	TW-01 (092720)	92	90	103	93
500-188477-8	DUP-01 (092720)	92	89	102	93
LCS 500-564989/5	Lab Control Sample	88	91	96	95
MB 500-564989/7	Method Blank	92	89	101	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-188477-1	SB-01 (0-4)	107	108	110	105	96	94
500-188477-2	SB-01 (28-31)	81	78	80	85	96	91
500-188477-3	SB-03 (0-4)	91	98	92	99	93	88
500-188477-4	SB-03 (24-27.5)	95	95	99	103	101	97
500-188477-4 MS	SB-03 (24-27.5)	88	95	87	92	91	82
500-188477-4 MSD	SB-03 (24-27.5)	73	69	65	70	92	80
500-188477-5	DUP-01 (092620)	91	97	91	100	97	97

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
LCS 500-565687/2-A	Lab Control Sample	90	102	93	98	98	97
MB 500-565687/1-A	Method Blank	73	72	73	78	101	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)	TBP (40-145)
500-188477-6	TW-02 (092720)	73	61	68	51	109	100
500-188477-7	TW-01 (092720)	63	48	62	38	123	96
500-188477-8	DUP-01 (092720)	76	55	72	45	114	105
LCS 500-564347/2-A	Lab Control Sample	78	65	74	61	108	101
LCSD 500-564347/3-A	Lab Control Sample Dup	77	59	76	53	111	104
MB 500-564347/1-A	Method Blank	74	71	77	61	107	93

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP2 (33-148)	TCX2 (30-121)
500-188477-1	SB-01 (0-4)	159 X	129 X
500-188477-2	SB-01 (28-31)	96	81
500-188477-3	SB-03 (0-4)	108	111
500-188477-4	SB-03 (24-27.5)	107	94
500-188477-4 MS	SB-03 (24-27.5)	92	91
500-188477-4 MSD	SB-03 (24-27.5)	89	92
500-188477-5	DUP-01 (092620)	99	104
LCS 500-565715/2-A	Lab Control Sample	122	107
MB 500-565715/1-A	Method Blank	116	100

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-188477-6	TW-02 (092720)	73	69
500-188477-7	TW-01 (092720)	91	65
500-188477-8	DUP-01 (092720)	78	76
LCS 500-564345/2-A	Lab Control Sample	99	69
LCSD 500-564345/3-A	Lab Control Sample Dup	90	71
MB 500-564345/1-A	Method Blank	100	70

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-188477-1	SB-01 (0-4)	100	99
500-188477-2	SB-01 (28-31)	70	89
500-188477-3	SB-03 (0-4)	98	97
500-188477-4	SB-03 (24-27.5)	99	111
500-188477-4 MS	SB-03 (24-27.5)	94	106
500-188477-4 MSD	SB-03 (24-27.5)	84	93
500-188477-5	DUP-01 (092620)	83	99
LCS 500-565715/3-A	Lab Control Sample	86	98
MB 500-565715/1-A	Method Blank	89	101

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-188477-6	TW-02 (092720)	80	142 X
500-188477-7	TW-01 (092720)	66	120
500-188477-8	DUP-01 (092720)	74	125
LCS 500-564345/4-A	Lab Control Sample	66	131
LCSD 500-564345/5-A	Lab Control Sample Dup	60	125
MB 500-564345/1-A	Method Blank	68	147 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (25-120)
500-188477-1	SB-01 (0-4)	75
500-188477-2	SB-01 (28-31)	61
500-188477-3	SB-03 (0-4)	71
500-188477-4	SB-03 (24-27.5)	56
500-188477-4 MS	SB-03 (24-27.5)	60
500-188477-4 MSD	SB-03 (24-27.5)	60
500-188477-5	DUP-01 (092620)	69
LCS 500-565274/2-A	Lab Control Sample	70
MB 500-565274/1-A	Method Blank	59

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (25-130)
500-188477-6	TW-02 (092720)	64
500-188477-7	TW-01 (092720)	67
500-188477-8	DUP-01 (092720)	69
LCS 500-564169/2-A	Lab Control Sample	69
LCSD 500-564169/3-A	Lab Control Sample Dup	68
MB 500-564169/1-A	Method Blank	71

Surrogate Legend

DCPAA = DCAA

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (44-148)
500-188477-1	SB-01 (0-4)	73
500-188477-2	SB-01 (28-31)	74
500-188477-3	SB-03 (0-4)	73
500-188477-4	SB-03 (24-27.5)	71
500-188477-4 MS	SB-03 (24-27.5)	74
500-188477-4 MSD	SB-03 (24-27.5)	70
500-188477-5	DUP-01 (092620)	71
LCS 500-565022/2-A	Lab Control Sample	76
LCSD 500-565022/3-A	Lab Control Sample Dup	75
MB 500-565022/1-A	Method Blank	93

Surrogate Legend

C9 = n-Nonane

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (42-111)
500-188477-6	TW-02 (092720)	54
500-188477-7	TW-01 (092720)	59
500-188477-8	DUP-01 (092720)	66
LCS 500-564670/2-A	Lab Control Sample	60
LCSD 500-564670/3-A	Lab Control Sample Dup	73
MB 500-564670/1-A	Method Blank	62

Surrogate Legend

C9 = n-Nonane

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	37TCDD (35-197)
500-188477-1	SB-01 (0-4)	92
500-188477-2	SB-01 (28-31)	88
500-188477-3	SB-03 (0-4)	84
500-188477-4	SB-03 (24-27.5)	90
500-188477-4 MS	SB-03 (24-27.5)	85
500-188477-4 MSD	SB-03 (24-27.5)	87
500-188477-5	DUP-01 (092620)	90
MB 320-417456/1-A	Method Blank	88

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-417456/2-A	Lab Control Sample	91

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-417490/2-A	Lab Control Sample	100
LCSD 320-417490/3-A	Lab Control Sample Dup	109

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	37TCDD (35-197)								
500-188477-6	TW-02 (092720)	95								
500-188477-7	TW-01 (092720)	96								
500-188477-8	DUP-01 (092720)	97								
MB 320-417490/1-A	Method Blank	102								

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-564550/19-A
Matrix: Solid
Analysis Batch: 564576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564550

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Bromobenzene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Bromochloromethane	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Bromodichloromethane	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Bromoform	<24		50	24	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Bromomethane	<40		150	40	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Carbon tetrachloride	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Chlorobenzene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Chloroethane	<25		50	25	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Chloroform	<19		100	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Chloromethane	<16		50	16	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
2-Chlorotoluene	<16		50	16	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
4-Chlorotoluene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Dibromochloromethane	<24		50	24	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2-Dibromoethane	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Dibromomethane	<14		50	14	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1-Dichloroethane	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2-Dichloroethane	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1-Dichloroethene	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2-Dichloropropane	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,3-Dichloropropane	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
2,2-Dichloropropane	<22		50	22	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1-Dichloropropene	<15		50	15	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Hexachlorobutadiene	<22		50	22	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Isopropylbenzene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Isopropyl ether	<14		50	14	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Methylene Chloride	<82		250	82	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
n-Butylbenzene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
N-Propylbenzene	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
p-Isopropyltoluene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
sec-Butylbenzene	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Styrene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
tert-Butylbenzene	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Tetrachloroethene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Toluene	<7.4		13	7.4	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-564550/19-A
Matrix: Solid
Analysis Batch: 564576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564550

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Trichloroethene	<8.2		25	8.2	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Trichlorofluoromethane	<21		50	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Vinyl chloride	<13		50	13	ug/Kg		10/02/20 02:20	10/02/20 12:18	50
Xylenes, Total	<11		25	11	ug/Kg		10/02/20 02:20	10/02/20 12:18	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*	*10/02/20 02:20*	*10/02/20 12:18*	*50*
Dibromofluoromethane (Surr)	*87*		*75 - 120*	*10/02/20 02:20*	*10/02/20 12:18*	*50*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*10/02/20 02:20*	*10/02/20 12:18*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*10/02/20 02:20*	*10/02/20 12:18*	*50*

Lab Sample ID: LCS 500-564550/20-A
Matrix: Solid
Analysis Batch: 564576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2670		ug/Kg		107	70 - 120
Bromobenzene	2500	2720		ug/Kg		109	70 - 122
Bromochloromethane	2500	2540		ug/Kg		102	65 - 122
Bromodichloromethane	2500	2360		ug/Kg		94	69 - 120
Bromoform	2500	2150		ug/Kg		86	56 - 132
Bromomethane	2500	2760		ug/Kg		110	40 - 152
Carbon tetrachloride	2500	2300		ug/Kg		92	59 - 133
Chlorobenzene	2500	2780		ug/Kg		111	70 - 120
Chloroethane	2500	2910		ug/Kg		116	48 - 136
Chloroform	2500	2510		ug/Kg		100	70 - 120
Chloromethane	2500	1870		ug/Kg		75	56 - 152
2-Chlorotoluene	2500	2710		ug/Kg		109	70 - 125
4-Chlorotoluene	2500	2670		ug/Kg		107	68 - 124
cis-1,2-Dichloroethene	2500	2620		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	2500	2600		ug/Kg		104	64 - 127
Dibromochloromethane	2500	2340		ug/Kg		94	68 - 125
1,2-Dibromo-3-Chloropropane	2500	1850		ug/Kg		74	56 - 123
1,2-Dibromoethane	2500	2560		ug/Kg		102	70 - 125
Dibromomethane	2500	2490		ug/Kg		100	70 - 120
1,2-Dichlorobenzene	2500	2720		ug/Kg		109	70 - 125
1,3-Dichlorobenzene	2500	2700		ug/Kg		108	70 - 125
1,4-Dichlorobenzene	2500	2630		ug/Kg		105	70 - 120
Dichlorodifluoromethane	2500	1080		ug/Kg		43	40 - 159
1,1-Dichloroethane	2500	2610		ug/Kg		105	70 - 125
1,2-Dichloroethane	2500	2460		ug/Kg		98	68 - 127

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564550/20-A
Matrix: Solid
Analysis Batch: 564576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	2500	2320		ug/Kg		93	67 - 122
1,2-Dichloropropane	2500	2720		ug/Kg		109	67 - 130
1,3-Dichloropropane	2500	2720		ug/Kg		109	62 - 136
2,2-Dichloropropane	2500	2480		ug/Kg		99	58 - 139
1,1-Dichloropropene	2500	2660		ug/Kg		107	70 - 121
Ethylbenzene	2500	2830		ug/Kg		113	70 - 123
Hexachlorobutadiene	2500	2580		ug/Kg		103	51 - 150
Isopropylbenzene	2500	2750		ug/Kg		110	70 - 126
Methylene Chloride	2500	2560		ug/Kg		102	69 - 125
Methyl tert-butyl ether	2500	2370		ug/Kg		95	55 - 123
Naphthalene	2500	2230		ug/Kg		89	53 - 144
n-Butylbenzene	2500	2720		ug/Kg		109	68 - 125
N-Propylbenzene	2500	2760		ug/Kg		110	69 - 127
p-Isopropyltoluene	2500	2720		ug/Kg		109	70 - 125
sec-Butylbenzene	2500	2770		ug/Kg		111	70 - 123
Styrene	2500	2680		ug/Kg		107	70 - 120
tert-Butylbenzene	2500	2790		ug/Kg		112	70 - 121
1,1,1,2-Tetrachloroethane	2500	2630		ug/Kg		105	70 - 125
1,1,2,2-Tetrachloroethane	2500	2670		ug/Kg		107	62 - 140
Tetrachloroethene	2500	2810		ug/Kg		113	70 - 128
Toluene	2500	2850		ug/Kg		114	70 - 125
trans-1,2-Dichloroethene	2500	2630		ug/Kg		105	70 - 125
trans-1,3-Dichloropropene	2500	2370		ug/Kg		95	62 - 128
1,2,3-Trichlorobenzene	2500	2230		ug/Kg		89	51 - 145
1,2,4-Trichlorobenzene	2500	2210		ug/Kg		89	57 - 137
1,1,1-Trichloroethane	2500	2580		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	2500	2680		ug/Kg		107	71 - 130
Trichloroethene	2500	2570		ug/Kg		103	70 - 125
Trichlorofluoromethane	2500	2170		ug/Kg		87	55 - 128
1,2,3-Trichloropropane	2500	2510		ug/Kg		101	50 - 133
1,2,4-Trimethylbenzene	2500	2640		ug/Kg		106	70 - 123
1,3,5-Trimethylbenzene	2500	2700		ug/Kg		108	70 - 123
Vinyl chloride	2500	2260		ug/Kg		90	64 - 126
Xylenes, Total	5000	5530		ug/Kg		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*93*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 564990

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<13		4610	4600		ug/Kg	☼	100	70 - 120
Bromobenzene	<32		4610	3950		ug/Kg	☼	86	70 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 564990

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	<39		4610	4360		ug/Kg	☼	94	65 - 122
Bromodichloromethane	<34		4610	3910		ug/Kg	☼	85	69 - 120
Bromoform	<44		4610	3040		ug/Kg	☼	66	56 - 132
Bromomethane	<72		4610	4790		ug/Kg	☼	104	40 - 152
Carbon tetrachloride	<35		4610	4460		ug/Kg	☼	97	59 - 133
Chlorobenzene	<35		4610	4560		ug/Kg	☼	99	70 - 120
Chloroethane	<46		4610	4670		ug/Kg	☼	101	48 - 136
Chloroform	<33		4610	4340		ug/Kg	☼	94	70 - 120
Chloromethane	<29		4610	5470		ug/Kg	☼	119	56 - 152
2-Chlorotoluene	<28		4610	4400		ug/Kg	☼	95	70 - 125
4-Chlorotoluene	<32		4610	4400		ug/Kg	☼	95	68 - 124
cis-1,2-Dichloroethene	<37		4610	4440		ug/Kg	☼	96	70 - 125
cis-1,3-Dichloropropene	<38		4610	3780		ug/Kg	☼	82	64 - 127
Dibromochloromethane	<44		4610	3390		ug/Kg	☼	73	68 - 125
1,2-Dibromo-3-Chloropropane	<180	* F1	4610	2700		ug/Kg	☼	59	56 - 123
1,2-Dibromoethane	<35		4610	3740		ug/Kg	☼	81	70 - 125
Dibromomethane	<24		4610	4180		ug/Kg	☼	91	70 - 120
1,2-Dichlorobenzene	<30		4610	4290		ug/Kg	☼	93	70 - 125
1,3-Dichlorobenzene	<36		4610	4400		ug/Kg	☼	95	70 - 125
1,4-Dichlorobenzene	<33		4610	4360		ug/Kg	☼	95	70 - 120
Dichlorodifluoromethane	<61		4610	5400		ug/Kg	☼	117	40 - 159
1,1-Dichloroethane	<37		4610	4740		ug/Kg	☼	103	70 - 125
1,2-Dichloroethane	<35		4610	4970		ug/Kg	☼	108	68 - 127
1,1-Dichloroethene	<35		4610	4380		ug/Kg	☼	95	67 - 122
1,2-Dichloropropane	<39		4610	4820		ug/Kg	☼	104	67 - 130
1,3-Dichloropropane	<33		4610	3970		ug/Kg	☼	86	62 - 136
2,2-Dichloropropane	<40		4610	4800		ug/Kg	☼	104	58 - 139
1,1-Dichloropropene	<27		4610	4690		ug/Kg	☼	102	70 - 121
Ethylbenzene	<17		4610	4660		ug/Kg	☼	101	70 - 123
Hexachlorobutadiene	<40		4610	5020		ug/Kg	☼	109	51 - 150
Isopropylbenzene	<35		4610	4350		ug/Kg	☼	94	70 - 126
Methylene Chloride	<150		4610	4100		ug/Kg	☼	89	69 - 125
Methyl tert-butyl ether	<36		4610	4580		ug/Kg	☼	99	55 - 123
Naphthalene	<30		4610	3750		ug/Kg	☼	81	53 - 144
n-Butylbenzene	<35		4610	4980		ug/Kg	☼	108	68 - 125
N-Propylbenzene	<37		4610	4560		ug/Kg	☼	99	69 - 127
p-Isopropyltoluene	<33		4610	5000		ug/Kg	☼	108	70 - 125
sec-Butylbenzene	<36		4610	4710		ug/Kg	☼	102	70 - 123
Styrene	<35		4610	4330		ug/Kg	☼	94	70 - 120
tert-Butylbenzene	<36		4610	4720		ug/Kg	☼	102	70 - 121
1,1,1,2-Tetrachloroethane	<42		4610	4150		ug/Kg	☼	90	70 - 125
1,1,2,2-Tetrachloroethane	<36		4610	3110		ug/Kg	☼	68	62 - 140
Tetrachloroethene	<33		4610	4620		ug/Kg	☼	100	70 - 128
Toluene	<13		4610	4530		ug/Kg	☼	98	70 - 125
trans-1,2-Dichloroethene	<32		4610	4560		ug/Kg	☼	99	70 - 125
trans-1,3-Dichloropropene	<33		4610	3610		ug/Kg	☼	78	62 - 128
1,2,3-Trichlorobenzene	<41		4610	4120		ug/Kg	☼	89	51 - 145
1,2,4-Trichlorobenzene	<31		4610	4170		ug/Kg	☼	90	57 - 137
1,1,1-Trichloroethane	<34		4610	4590		ug/Kg	☼	99	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 564990

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	<32		4610	3880		ug/Kg	☼	84	71 - 130
Trichloroethene	<15		4610	4730		ug/Kg	☼	103	70 - 125
Trichlorofluoromethane	<39		4610	4490		ug/Kg	☼	97	55 - 128
1,2,3-Trichloropropane	<37		4610	3380		ug/Kg	☼	73	50 - 133
1,2,4-Trimethylbenzene	<32		4610	4450		ug/Kg	☼	96	70 - 123
1,3,5-Trimethylbenzene	<34		4610	4500		ug/Kg	☼	98	70 - 123
Vinyl chloride	<24		4610	5290		ug/Kg	☼	115	64 - 126
Xylenes, Total	<20		9220	9770		ug/Kg	☼	106	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*92*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 564990

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<13		4610	4430		ug/Kg	☼	96	70 - 120	4	30
Bromobenzene	<32		4610	3610		ug/Kg	☼	78	70 - 122	9	30
Bromochloromethane	<39		4610	4290		ug/Kg	☼	93	65 - 122	1	30
Bromodichloromethane	<34		4610	3830		ug/Kg	☼	83	69 - 120	2	30
Bromoform	<44		4610	2930		ug/Kg	☼	64	56 - 132	4	30
Bromomethane	<72		4610	4550		ug/Kg	☼	99	40 - 152	5	30
Carbon tetrachloride	<35		4610	4240		ug/Kg	☼	92	59 - 133	5	30
Chlorobenzene	<35		4610	4310		ug/Kg	☼	93	70 - 120	6	30
Chloroethane	<46		4610	4520		ug/Kg	☼	98	48 - 136	3	30
Chloroform	<33		4610	4190		ug/Kg	☼	91	70 - 120	4	30
Chloromethane	<29		4610	5120		ug/Kg	☼	111	56 - 152	7	30
2-Chlorotoluene	<28		4610	3950		ug/Kg	☼	86	70 - 125	11	30
4-Chlorotoluene	<32		4610	4050		ug/Kg	☼	88	68 - 124	8	30
cis-1,2-Dichloroethene	<37		4610	4300		ug/Kg	☼	93	70 - 125	3	30
cis-1,3-Dichloropropene	<38		4610	3570		ug/Kg	☼	78	64 - 127	6	30
Dibromochloromethane	<44		4610	3230		ug/Kg	☼	70	68 - 125	5	30
1,2-Dibromo-3-Chloropropane	<180	* F1	4610	2510	F1	ug/Kg	☼	54	56 - 123	7	30
1,2-Dibromoethane	<35		4610	3570		ug/Kg	☼	78	70 - 125	5	30
Dibromomethane	<24		4610	4090		ug/Kg	☼	89	70 - 120	2	30
1,2-Dichlorobenzene	<30		4610	3960		ug/Kg	☼	86	70 - 125	8	30
1,3-Dichlorobenzene	<36		4610	4100		ug/Kg	☼	89	70 - 125	7	30
1,4-Dichlorobenzene	<33		4610	4050		ug/Kg	☼	88	70 - 120	7	30
Dichlorodifluoromethane	<61		4610	5160		ug/Kg	☼	112	40 - 159	4	30
1,1-Dichloroethane	<37		4610	4560		ug/Kg	☼	99	70 - 125	4	30
1,2-Dichloroethane	<35		4610	4860		ug/Kg	☼	105	68 - 127	2	30
1,1-Dichloroethene	<35		4610	4260		ug/Kg	☼	92	67 - 122	3	30
1,2-Dichloropropane	<39		4610	4630		ug/Kg	☼	100	67 - 130	4	30
1,3-Dichloropropane	<33		4610	3790		ug/Kg	☼	82	62 - 136	5	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 564990

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,2-Dichloropropane	<40		4610	4890		ug/Kg	☼	106	58 - 139	2	30
1,1-Dichloropropene	<27		4610	4470		ug/Kg	☼	97	70 - 121	5	30
Ethylbenzene	<17		4610	4360		ug/Kg	☼	95	70 - 123	7	30
Hexachlorobutadiene	<40		4610	4470		ug/Kg	☼	97	51 - 150	12	30
Isopropylbenzene	<35		4610	3860		ug/Kg	☼	84	70 - 126	12	30
Methylene Chloride	<150		4610	3960		ug/Kg	☼	86	69 - 125	3	30
Methyl tert-butyl ether	<36		4610	4530		ug/Kg	☼	98	55 - 123	1	30
Naphthalene	<30		4610	3580		ug/Kg	☼	78	53 - 144	4	30
n-Butylbenzene	<35		4610	4580		ug/Kg	☼	99	68 - 125	8	30
N-Propylbenzene	<37		4610	4110		ug/Kg	☼	89	69 - 127	10	30
p-Isopropyltoluene	<33		4610	4490		ug/Kg	☼	97	70 - 125	11	30
sec-Butylbenzene	<36		4610	4170		ug/Kg	☼	90	70 - 123	12	30
Styrene	<35		4610	4160		ug/Kg	☼	90	70 - 120	4	30
tert-Butylbenzene	<36		4610	4120		ug/Kg	☼	89	70 - 121	13	30
1,1,1,2-Tetrachloroethane	<42		4610	3910		ug/Kg	☼	85	70 - 125	6	30
1,1,2,2-Tetrachloroethane	<36		4610	2870		ug/Kg	☼	62	62 - 140	8	30
Tetrachloroethene	<33		4610	4380		ug/Kg	☼	95	70 - 128	5	30
Toluene	<13		4610	4240		ug/Kg	☼	92	70 - 125	6	30
trans-1,2-Dichloroethene	<32		4610	4430		ug/Kg	☼	96	70 - 125	3	30
trans-1,3-Dichloropropene	<33		4610	3440		ug/Kg	☼	75	62 - 128	5	30
1,2,3-Trichlorobenzene	<41		4610	3970		ug/Kg	☼	86	51 - 145	4	30
1,2,4-Trichlorobenzene	<31		4610	4070		ug/Kg	☼	88	57 - 137	3	30
1,1,1-Trichloroethane	<34		4610	4420		ug/Kg	☼	96	70 - 125	4	30
1,1,2-Trichloroethane	<32		4610	3690		ug/Kg	☼	80	71 - 130	5	30
Trichloroethene	<15		4610	4570		ug/Kg	☼	99	70 - 125	3	30
Trichlorofluoromethane	<39		4610	4200		ug/Kg	☼	91	55 - 128	7	30
1,2,3-Trichloropropane	<37		4610	3080		ug/Kg	☼	67	50 - 133	9	30
1,2,4-Trimethylbenzene	<32		4610	4040		ug/Kg	☼	88	70 - 123	10	30
1,3,5-Trimethylbenzene	<34		4610	4020		ug/Kg	☼	87	70 - 123	11	30
Vinyl chloride	<24		4610	5030		ug/Kg	☼	109	64 - 126	5	30
Xylenes, Total	<20		9220	9210		ug/Kg	☼	100	70 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*
Toluene-d8 (Surr)	*92*		*75 - 120*

Lab Sample ID: MB 500-564576/7
Matrix: Solid
Analysis Batch: 564576

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			10/02/20 11:53	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			10/02/20 11:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			10/02/20 11:53	1
Bromoform	<0.48		1.0	0.48	ug/Kg			10/02/20 11:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564576/7
Matrix: Solid
Analysis Batch: 564576

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.80		3.0	0.80	ug/Kg			10/02/20 11:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			10/02/20 11:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			10/02/20 11:53	1
Chloroform	<0.37		2.0	0.37	ug/Kg			10/02/20 11:53	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			10/02/20 11:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			10/02/20 11:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			10/02/20 11:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			10/02/20 11:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			10/02/20 11:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			10/02/20 11:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			10/02/20 11:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			10/02/20 11:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			10/02/20 11:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			10/02/20 11:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			10/02/20 11:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			10/02/20 11:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			10/02/20 11:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			10/02/20 11:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			10/02/20 11:53	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/02/20 11:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			10/02/20 11:53	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			10/02/20 11:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			10/02/20 11:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			10/02/20 11:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			10/02/20 11:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/02/20 11:53	1
Styrene	<0.39		1.0	0.39	ug/Kg			10/02/20 11:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/02/20 11:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			10/02/20 11:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			10/02/20 11:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			10/02/20 11:53	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/02/20 11:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			10/02/20 11:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			10/02/20 11:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			10/02/20 11:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			10/02/20 11:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			10/02/20 11:53	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			10/02/20 11:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			10/02/20 11:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564576/7
Matrix: Solid
Analysis Batch: 564576

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			10/02/20 11:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/02/20 11:53	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/02/20 11:53	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			10/02/20 11:53	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/02/20 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*10/02/20 11:53*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*10/02/20 11:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*10/02/20 11:53*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*10/02/20 11:53*	*1*

Lab Sample ID: LCS 500-564576/5
Matrix: Solid
Analysis Batch: 564576

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.9		ug/Kg		104	70 - 120
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 122
Bromochloromethane	50.0	53.5		ug/Kg		107	65 - 122
Bromodichloromethane	50.0	44.4		ug/Kg		89	69 - 120
Bromoform	50.0	41.9		ug/Kg		84	56 - 132
Bromomethane	50.0	55.3		ug/Kg		111	40 - 152
Carbon tetrachloride	50.0	50.3		ug/Kg		101	59 - 133
Chlorobenzene	50.0	52.3		ug/Kg		105	70 - 120
Chloroethane	50.0	50.3		ug/Kg		101	48 - 136
Chloroform	50.0	51.6		ug/Kg		103	70 - 120
Chloromethane	50.0	43.3		ug/Kg		87	56 - 152
2-Chlorotoluene	50.0	51.7		ug/Kg		103	70 - 125
4-Chlorotoluene	50.0	51.6		ug/Kg		103	68 - 124
cis-1,2-Dichloroethene	50.0	54.1		ug/Kg		108	70 - 125
cis-1,3-Dichloropropene	50.0	43.5		ug/Kg		87	64 - 127
Dibromochloromethane	50.0	42.9		ug/Kg		86	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	35.1		ug/Kg		70	56 - 123
1,2-Dibromoethane	50.0	47.5		ug/Kg		95	70 - 125
Dibromomethane	50.0	48.4		ug/Kg		97	70 - 120
1,2-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 125
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 125
1,4-Dichlorobenzene	50.0	49.7		ug/Kg		99	70 - 120
Dichlorodifluoromethane	50.0	30.8		ug/Kg		62	40 - 159
1,1-Dichloroethane	50.0	54.1		ug/Kg		108	70 - 125
1,2-Dichloroethane	50.0	46.2		ug/Kg		92	68 - 127
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	67 - 122
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	67 - 130
1,3-Dichloropropane	50.0	48.6		ug/Kg		97	62 - 136
2,2-Dichloropropane	50.0	56.8		ug/Kg		114	58 - 139
1,1-Dichloropropene	50.0	53.8		ug/Kg		108	70 - 121
Ethylbenzene	50.0	54.1		ug/Kg		108	70 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564576/5
Matrix: Solid
Analysis Batch: 564576

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	49.0		ug/Kg		98	51 - 150
Isopropylbenzene	50.0	51.2		ug/Kg		102	70 - 126
Methylene Chloride	50.0	53.5		ug/Kg		107	69 - 125
Methyl tert-butyl ether	50.0	47.8		ug/Kg		96	55 - 123
Naphthalene	50.0	39.3		ug/Kg		79	53 - 144
n-Butylbenzene	50.0	53.4		ug/Kg		107	68 - 125
N-Propylbenzene	50.0	53.8		ug/Kg		108	69 - 127
p-Isopropyltoluene	50.0	52.5		ug/Kg		105	70 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 123
Styrene	50.0	51.9		ug/Kg		104	70 - 120
tert-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 121
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	62 - 140
Tetrachloroethene	50.0	50.6		ug/Kg		101	70 - 128
Toluene	50.0	49.1		ug/Kg		98	70 - 125
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	70 - 125
trans-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	62 - 128
1,2,3-Trichlorobenzene	50.0	41.2		ug/Kg		82	51 - 145
1,2,4-Trichlorobenzene	50.0	43.1		ug/Kg		86	57 - 137
1,1,1-Trichloroethane	50.0	56.1		ug/Kg		112	70 - 125
1,1,2-Trichloroethane	50.0	46.5		ug/Kg		93	71 - 130
Trichloroethene	50.0	49.3		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	44.8		ug/Kg		90	55 - 128
1,2,3-Trichloropropane	50.0	46.2		ug/Kg		92	50 - 133
1,2,4-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 123
1,3,5-Trimethylbenzene	50.0	51.3		ug/Kg		103	70 - 123
Vinyl chloride	50.0	50.4		ug/Kg		101	64 - 126
Xylenes, Total	100	105		ug/Kg		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-564989/7
Matrix: Water
Analysis Batch: 564989

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/05/20 23:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/05/20 23:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/05/20 23:50	1
Bromoform	<0.48		1.0	0.48	ug/L			10/05/20 23:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/05/20 23:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/05/20 23:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564989/7
Matrix: Water
Analysis Batch: 564989

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.51		1.0	0.51	ug/L			10/05/20 23:50	1
Chloroform	<0.37		2.0	0.37	ug/L			10/05/20 23:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/05/20 23:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/05/20 23:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/05/20 23:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/05/20 23:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/05/20 23:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/05/20 23:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/05/20 23:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/05/20 23:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/05/20 23:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/05/20 23:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/05/20 23:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/05/20 23:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/05/20 23:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/05/20 23:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/05/20 23:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/05/20 23:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/05/20 23:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/05/20 23:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/05/20 23:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/05/20 23:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/05/20 23:50	1
Styrene	<0.39		1.0	0.39	ug/L			10/05/20 23:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/05/20 23:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/05/20 23:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/05/20 23:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/05/20 23:50	1
Toluene	<0.15		0.50	0.15	ug/L			10/05/20 23:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/05/20 23:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/05/20 23:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/05/20 23:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/05/20 23:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/05/20 23:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/05/20 23:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/05/20 23:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/05/20 23:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/05/20 23:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/05/20 23:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564989/7
Matrix: Water
Analysis Batch: 564989

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/05/20 23:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/05/20 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/05/20 23:50*	*1*
Dibromofluoromethane (Surr)	*89*		*75 - 120*		*10/05/20 23:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/05/20 23:50*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*10/05/20 23:50*	*1*

Lab Sample ID: LCS 500-564989/5
Matrix: Water
Analysis Batch: 564989

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.9		ug/L		94	70 - 120
Bromobenzene	50.0	39.2		ug/L		78	70 - 122
Bromochloromethane	50.0	43.8		ug/L		88	65 - 122
Bromodichloromethane	50.0	38.9		ug/L		78	69 - 120
Bromoform	50.0	31.9		ug/L		64	56 - 132
Bromomethane	50.0	56.1		ug/L		112	40 - 152
Carbon tetrachloride	50.0	47.3		ug/L		95	59 - 133
Chlorobenzene	50.0	46.4		ug/L		93	70 - 120
Chloroethane	50.0	62.4		ug/L		125	48 - 136
Chloroform	50.0	44.2		ug/L		88	70 - 120
Chloromethane	50.0	59.2		ug/L		118	56 - 152
2-Chlorotoluene	50.0	44.4		ug/L		89	70 - 125
4-Chlorotoluene	50.0	45.2		ug/L		90	68 - 124
cis-1,2-Dichloroethene	50.0	45.4		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	38.8		ug/L		78	64 - 127
Dibromochloromethane	50.0	34.4		ug/L		69	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	26.4	*	ug/L		53	56 - 123
1,2-Dibromoethane	50.0	37.6		ug/L		75	70 - 125
Dibromomethane	50.0	41.3		ug/L		83	70 - 120
1,2-Dichlorobenzene	50.0	42.9		ug/L		86	70 - 125
1,3-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 125
1,4-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	62.8		ug/L		126	40 - 159
1,1-Dichloroethane	50.0	48.3		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	49.4		ug/L		99	68 - 127
1,1-Dichloroethene	50.0	46.6		ug/L		93	67 - 122
1,2-Dichloropropane	50.0	47.2		ug/L		94	67 - 130
1,3-Dichloropropane	50.0	39.3		ug/L		79	62 - 136
2,2-Dichloropropane	50.0	53.3		ug/L		107	58 - 139
1,1-Dichloropropene	50.0	49.1		ug/L		98	70 - 121
Ethylbenzene	50.0	48.8		ug/L		98	70 - 123
Hexachlorobutadiene	50.0	50.8		ug/L		102	51 - 150
Isopropylbenzene	50.0	44.8		ug/L		90	70 - 126
Methylene Chloride	50.0	40.9		ug/L		82	69 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564989/5
Matrix: Water
Analysis Batch: 564989

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	45.5		ug/L		91	55 - 123
Naphthalene	50.0	37.9		ug/L		76	53 - 144
n-Butylbenzene	50.0	53.2		ug/L		106	68 - 125
N-Propylbenzene	50.0	47.4		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	51.9		ug/L		104	70 - 125
sec-Butylbenzene	50.0	48.8		ug/L		98	70 - 123
Styrene	50.0	44.5		ug/L		89	70 - 120
tert-Butylbenzene	50.0	47.8		ug/L		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.4		ug/L		85	70 - 125
1,1,2,2-Tetrachloroethane	50.0	31.1		ug/L		62	62 - 140
Tetrachloroethene	50.0	49.3		ug/L		99	70 - 128
Toluene	50.0	46.6		ug/L		93	70 - 125
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	36.7		ug/L		73	62 - 128
1,2,3-Trichlorobenzene	50.0	42.5		ug/L		85	51 - 145
1,2,4-Trichlorobenzene	50.0	44.3		ug/L		89	57 - 137
1,1,1-Trichloroethane	50.0	48.4		ug/L		97	70 - 125
1,1,2-Trichloroethane	50.0	38.9		ug/L		78	71 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 125
Trichlorofluoromethane	50.0	50.9		ug/L		102	55 - 128
1,2,3-Trichloropropane	50.0	32.5		ug/L		65	50 - 133
1,2,4-Trimethylbenzene	50.0	45.5		ug/L		91	70 - 123
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	70 - 123
Vinyl chloride	50.0	59.5		ug/L		119	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane (Surr)	*91*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: MB 500-564990/7
Matrix: Solid
Analysis Batch: 564990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			10/05/20 23:50	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			10/05/20 23:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			10/05/20 23:50	1
Bromoform	<0.48		1.0	0.48	ug/Kg			10/05/20 23:50	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			10/05/20 23:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			10/05/20 23:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			10/05/20 23:50	1
Chloroform	<0.37		2.0	0.37	ug/Kg			10/05/20 23:50	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			10/05/20 23:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564990/7
Matrix: Solid
Analysis Batch: 564990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			10/05/20 23:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			10/05/20 23:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			10/05/20 23:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			10/05/20 23:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			10/05/20 23:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			10/05/20 23:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			10/05/20 23:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			10/05/20 23:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			10/05/20 23:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			10/05/20 23:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			10/05/20 23:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			10/05/20 23:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			10/05/20 23:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			10/05/20 23:50	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/05/20 23:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			10/05/20 23:50	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			10/05/20 23:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			10/05/20 23:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			10/05/20 23:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			10/05/20 23:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/05/20 23:50	1
Styrene	<0.39		1.0	0.39	ug/Kg			10/05/20 23:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/05/20 23:50	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			10/05/20 23:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			10/05/20 23:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			10/05/20 23:50	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/05/20 23:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			10/05/20 23:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			10/05/20 23:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			10/05/20 23:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			10/05/20 23:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			10/05/20 23:50	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			10/05/20 23:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			10/05/20 23:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			10/05/20 23:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/05/20 23:50	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/05/20 23:50	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			10/05/20 23:50	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/05/20 23:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564990/7
Matrix: Solid
Analysis Batch: 564990

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*10/05/20 23:50*	*1*
Dibromofluoromethane (Surr)	*89*		*75 - 120*		*10/05/20 23:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*10/05/20 23:50*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*10/05/20 23:50*	*1*

Lab Sample ID: LCS 500-564990/5
Matrix: Solid
Analysis Batch: 564990

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.9		ug/Kg		94	70 - 120
Bromobenzene	50.0	39.2		ug/Kg		78	70 - 122
Bromochloromethane	50.0	43.8		ug/Kg		88	65 - 122
Bromodichloromethane	50.0	38.9		ug/Kg		78	69 - 120
Bromoform	50.0	31.9		ug/Kg		64	56 - 132
Bromomethane	50.0	56.1		ug/Kg		112	40 - 152
Carbon tetrachloride	50.0	47.3		ug/Kg		95	59 - 133
Chlorobenzene	50.0	46.4		ug/Kg		93	70 - 120
Chloroethane	50.0	62.4		ug/Kg		125	48 - 136
Chloroform	50.0	44.2		ug/Kg		88	70 - 120
Chloromethane	50.0	59.2		ug/Kg		118	56 - 152
2-Chlorotoluene	50.0	44.4		ug/Kg		89	70 - 125
4-Chlorotoluene	50.0	45.2		ug/Kg		90	68 - 124
cis-1,2-Dichloroethene	50.0	45.4		ug/Kg		91	70 - 125
cis-1,3-Dichloropropene	50.0	38.8		ug/Kg		78	64 - 127
Dibromochloromethane	50.0	34.4		ug/Kg		69	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	26.4	*	ug/Kg		53	56 - 123
1,2-Dibromoethane	50.0	37.6		ug/Kg		75	70 - 125
Dibromomethane	50.0	41.3		ug/Kg		83	70 - 120
1,2-Dichlorobenzene	50.0	42.9		ug/Kg		86	70 - 125
1,3-Dichlorobenzene	50.0	45.2		ug/Kg		90	70 - 125
1,4-Dichlorobenzene	50.0	44.9		ug/Kg		90	70 - 120
Dichlorodifluoromethane	50.0	62.8		ug/Kg		126	40 - 159
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 125
1,2-Dichloroethane	50.0	49.4		ug/Kg		99	68 - 127
1,1-Dichloroethene	50.0	46.6		ug/Kg		93	67 - 122
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	67 - 130
1,3-Dichloropropane	50.0	39.3		ug/Kg		79	62 - 136
2,2-Dichloropropane	50.0	53.3		ug/Kg		107	58 - 139
1,1-Dichloropropene	50.0	49.1		ug/Kg		98	70 - 121
Ethylbenzene	50.0	48.8		ug/Kg		98	70 - 123
Hexachlorobutadiene	50.0	50.8		ug/Kg		102	51 - 150
Isopropylbenzene	50.0	44.8		ug/Kg		90	70 - 126
Methylene Chloride	50.0	40.9		ug/Kg		82	69 - 125
Methyl tert-butyl ether	50.0	45.5		ug/Kg		91	55 - 123
Naphthalene	50.0	37.9		ug/Kg		76	53 - 144
n-Butylbenzene	50.0	53.2		ug/Kg		106	68 - 125
N-Propylbenzene	50.0	47.4		ug/Kg		95	69 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564990/5
Matrix: Solid
Analysis Batch: 564990

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	50.0	51.9		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	48.8		ug/Kg		98	70 - 123
Styrene	50.0	44.5		ug/Kg		89	70 - 120
tert-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.4		ug/Kg		85	70 - 125
1,1,2,2-Tetrachloroethane	50.0	31.1		ug/Kg		62	62 - 140
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 128
Toluene	50.0	46.6		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	70 - 125
trans-1,3-Dichloropropene	50.0	36.7		ug/Kg		73	62 - 128
1,2,3-Trichlorobenzene	50.0	42.5		ug/Kg		85	51 - 145
1,2,4-Trichlorobenzene	50.0	44.3		ug/Kg		89	57 - 137
1,1,1-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 125
1,1,2-Trichloroethane	50.0	38.9		ug/Kg		78	71 - 130
Trichloroethene	50.0	48.7		ug/Kg		97	70 - 125
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	55 - 128
1,2,3-Trichloropropane	50.0	32.5		ug/Kg		65	50 - 133
1,2,4-Trimethylbenzene	50.0	45.5		ug/Kg		91	70 - 123
1,3,5-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
Vinyl chloride	50.0	59.5		ug/Kg		119	64 - 126
Xylenes, Total	100	101		ug/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane (Surr)	*91*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-564347/1-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/01/20 06:31	10/02/20 01:25	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/01/20 06:31	10/02/20 01:25	1
Anthracene	<0.27		0.80	0.27	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzoic acid	<4.6		16	4.6	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/01/20 06:31	10/02/20 01:25	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/01/20 06:31	10/02/20 01:25	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 01:25	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/01/20 06:31	10/02/20 01:25	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/01/20 06:31	10/02/20 01:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564347/1-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/01/20 06:31	10/02/20 01:25	1
Carbazole	<0.28		4.0	0.28	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L		10/01/20 06:31	10/02/20 01:25	1
Chrysene	<0.055		0.16	0.055	ug/L		10/01/20 06:31	10/02/20 01:25	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/01/20 06:31	10/02/20 01:25	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/01/20 06:31	10/02/20 01:25	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L		10/01/20 06:31	10/02/20 01:25	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/01/20 06:31	10/02/20 01:25	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/01/20 06:31	10/02/20 01:25	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 01:25	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 01:25	1
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/01/20 06:31	10/02/20 01:25	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/01/20 06:31	10/02/20 01:25	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/01/20 06:31	10/02/20 01:25	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		10/01/20 06:31	10/02/20 01:25	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 01:25	1
Fluorene	<0.20		0.80	0.20	ug/L		10/01/20 06:31	10/02/20 01:25	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/01/20 06:31	10/02/20 01:25	1
Hexachlorobutadiene	<0.41		4.0	0.41	ug/L		10/01/20 06:31	10/02/20 01:25	1
Hexachlorocyclopentadiene	<5.1		16	5.1	ug/L		10/01/20 06:31	10/02/20 01:25	1
Hexachloroethane	<0.48		4.0	0.48	ug/L		10/01/20 06:31	10/02/20 01:25	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/01/20 06:31	10/02/20 01:25	1
Isophorone	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 01:25	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/01/20 06:31	10/02/20 01:25	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/01/20 06:31	10/02/20 01:25	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/01/20 06:31	10/02/20 01:25	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/01/20 06:31	10/02/20 01:25	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/01/20 06:31	10/02/20 01:25	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/01/20 06:31	10/02/20 01:25	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/01/20 06:31	10/02/20 01:25	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/01/20 06:31	10/02/20 01:25	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/01/20 06:31	10/02/20 01:25	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/01/20 06:31	10/02/20 01:25	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/01/20 06:31	10/02/20 01:25	1
Phenol	<0.54		4.0	0.54	ug/L		10/01/20 06:31	10/02/20 01:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564347/1-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.34		0.80	0.34	ug/L		10/01/20 06:31	10/02/20 01:25	1
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/01/20 06:31	10/02/20 01:25	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/01/20 06:31	10/02/20 01:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*34 - 110*	*10/01/20 06:31*	*10/02/20 01:25*	*1*
2-Fluorophenol (Surr)	*71*		*27 - 110*	*10/01/20 06:31*	*10/02/20 01:25*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*10/01/20 06:31*	*10/02/20 01:25*	*1*
Phenol-d5 (Surr)	*61*		*20 - 110*	*10/01/20 06:31*	*10/02/20 01:25*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*10/01/20 06:31*	*10/02/20 01:25*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*40 - 145*	*10/01/20 06:31*	*10/02/20 01:25*	*1*

Lab Sample ID: LCS 500-564347/2-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	16.0	12.8		ug/L		80	46 - 110
Acenaphthylene	16.0	12.9		ug/L		81	47 - 113
Anthracene	16.0	15.2		ug/L		95	67 - 118
Benzo[a]anthracene	16.0	16.3		ug/L		102	70 - 126
Benzo[a]pyrene	16.0	16.1		ug/L		100	70 - 135
Benzo[b]fluoranthene	16.0	17.7		ug/L		111	69 - 136
Benzo[g,h,i]perylene	16.0	18.3		ug/L		114	70 - 135
Benzoic acid	32.0	13.9	J	ug/L		43	10 - 112
Benzo[k]fluoranthene	16.0	18.2		ug/L		113	70 - 133
Benzyl alcohol	16.0	14.0	J	ug/L		87	46 - 132
Bis(2-chloroethoxy)methane	16.0	14.4		ug/L		90	59 - 118
Bis(2-chloroethyl)ether	16.0	13.3		ug/L		83	54 - 112
Bis(2-ethylhexyl) phthalate	16.0	15.5		ug/L		97	69 - 136
4-Bromophenyl phenyl ether	16.0	13.6		ug/L		85	58 - 120
Butyl benzyl phthalate	16.0	16.2		ug/L		101	68 - 135
Carbazole	16.0	15.8		ug/L		99	61 - 145
4-Chloroaniline	16.0	13.5		ug/L		85	35 - 128
4-Chloro-3-methylphenol	16.0	15.1		ug/L		94	64 - 128
2-Chloronaphthalene	16.0	10.8		ug/L		68	39 - 110
2-Chlorophenol	16.0	13.0		ug/L		81	59 - 110
4-Chlorophenyl phenyl ether	16.0	12.9		ug/L		81	48 - 116
Chrysene	16.0	16.0		ug/L		100	68 - 129
Dibenz(a,h)anthracene	16.0	18.9		ug/L		118	70 - 134
Dibenzofuran	16.0	13.1		ug/L		82	51 - 110
1,2-Dichlorobenzene	16.0	7.91		ug/L		49	26 - 110
1,3-Dichlorobenzene	16.0	7.10		ug/L		44	22 - 110
1,4-Dichlorobenzene	16.0	7.20		ug/L		45	23 - 110
3,3'-Dichlorobenzidine	16.0	12.6		ug/L		79	60 - 132
2,4-Dichlorophenol	16.0	14.7		ug/L		92	58 - 120
Diethyl phthalate	16.0	16.4		ug/L		102	62 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564347/2-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	16.0	13.8		ug/L		86	51 - 115
Dimethyl phthalate	16.0	15.7		ug/L		98	63 - 122
Di-n-butyl phthalate	16.0	16.2		ug/L		101	69 - 129
4,6-Dinitro-2-methylphenol	32.0	32.3		ug/L		101	50 - 129
2,4-Dinitrophenol	32.0	28.9		ug/L		90	37 - 130
2,4-Dinitrotoluene	16.0	16.7		ug/L		104	63 - 129
2,6-Dinitrotoluene	16.0	16.8		ug/L		105	63 - 129
Di-n-octyl phthalate	16.0	13.1		ug/L		82	68 - 137
Fluoranthene	16.0	16.2		ug/L		101	68 - 126
Fluorene	16.0	13.9		ug/L		87	53 - 120
Hexachlorobenzene	16.0	13.4		ug/L		84	61 - 126
Hexachlorobutadiene	16.0	7.34		ug/L		46	20 - 100
Hexachlorocyclopentadiene	16.0	7.59	J	ug/L		47	10 - 105
Hexachloroethane	16.0	6.87		ug/L		43	20 - 100
Indeno[1,2,3-cd]pyrene	16.0	18.8		ug/L		118	65 - 133
Isophorone	16.0	14.1		ug/L		88	54 - 127
1-Methylnaphthalene	16.0	10.4		ug/L		65	38 - 110
2-Methylnaphthalene	16.0	10.1		ug/L		63	34 - 110
2-Methylphenol	16.0	13.9		ug/L		87	53 - 115
3 & 4 Methylphenol	16.0	15.2		ug/L		95	50 - 116
Naphthalene	16.0	9.69		ug/L		61	36 - 110
2-Nitroaniline	16.0	14.4		ug/L		90	59 - 138
3-Nitroaniline	16.0	9.65		ug/L		60	47 - 123
4-Nitroaniline	16.0	12.1		ug/L		76	35 - 110
Nitrobenzene	16.0	12.7		ug/L		79	54 - 121
2-Nitrophenol	16.0	14.4		ug/L		90	59 - 115
4-Nitrophenol	32.0	20.6		ug/L		64	20 - 110
N-Nitrosodi-n-propylamine	16.0	15.2		ug/L		95	47 - 131
N-Nitrosodiphenylamine	16.0	15.1		ug/L		94	66 - 120
2,2'-oxybis[1-chloropropane]	16.0	11.5		ug/L		72	38 - 140
Pentachlorophenol	32.0	24.3		ug/L		76	42 - 148
Phenanthrene	16.0	14.7		ug/L		92	65 - 120
Phenol	16.0	11.2		ug/L		70	33 - 100
Pyrene	16.0	17.3		ug/L		108	70 - 126
1,2,4-Trichlorobenzene	16.0	8.13		ug/L		51	26 - 110
2,4,5-Trichlorophenol	16.0	14.9		ug/L		93	63 - 124
2,4,6-Trichlorophenol	16.0	14.9		ug/L		93	62 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*
2-Fluorophenol (Surr)	*65*		*27 - 110*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*
Phenol-d5 (Surr)	*61*		*20 - 110*
Terphenyl-d14 (Surr)	*108*		*40 - 145*
2,4,6-Tribromophenol (Surr)	*101*		*40 - 145*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-564347/3-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			16.0	15.2		ug/L		95	46 - 110	17	20
Acenaphthylene			16.0	14.9		ug/L		93	47 - 113	14	20
Anthracene			16.0	16.8		ug/L		105	67 - 118	10	20
Benzo[a]anthracene			16.0	17.9		ug/L		112	70 - 126	9	20
Benzo[a]pyrene			16.0	17.6		ug/L		110	70 - 135	9	20
Benzo[b]fluoranthene			16.0	19.6		ug/L		123	69 - 136	10	20
Benzo[g,h,i]perylene			16.0	20.2		ug/L		126	70 - 135	10	20
Benzoic acid			32.0	15.0	J	ug/L		47	10 - 112	8	20
Benzo[k]fluoranthene			16.0	19.8		ug/L		124	70 - 133	9	20
Benzyl alcohol			16.0	14.2	J	ug/L		89	46 - 132	2	20
Bis(2-chloroethoxy)methane			16.0	15.8		ug/L		99	59 - 118	9	20
Bis(2-chloroethyl)ether			16.0	13.8		ug/L		86	54 - 112	4	20
Bis(2-ethylhexyl) phthalate			16.0	17.3		ug/L		108	69 - 136	11	20
4-Bromophenyl phenyl ether			16.0	16.3		ug/L		102	58 - 120	18	20
Butyl benzyl phthalate			16.0	17.8		ug/L		111	68 - 135	9	20
Carbazole			16.0	16.9		ug/L		106	61 - 145	7	20
4-Chloroaniline			16.0	14.7		ug/L		92	35 - 128	9	20
4-Chloro-3-methylphenol			16.0	16.5		ug/L		103	64 - 128	9	20
2-Chloronaphthalene			16.0	13.6	*1	ug/L		85	39 - 110	23	20
2-Chlorophenol			16.0	13.3		ug/L		83	59 - 110	2	20
4-Chlorophenyl phenyl ether			16.0	15.9	*1	ug/L		99	48 - 116	21	20
Chrysene			16.0	17.5		ug/L		109	68 - 129	9	20
Dibenz(a,h)anthracene			16.0	20.9		ug/L		130	70 - 134	10	20
Dibenzofuran			16.0	15.3		ug/L		95	51 - 110	15	20
1,2-Dichlorobenzene			16.0	11.4	*1	ug/L		71	26 - 110	36	20
1,3-Dichlorobenzene			16.0	10.6	*1	ug/L		66	22 - 110	40	20
1,4-Dichlorobenzene			16.0	10.7	*1	ug/L		67	23 - 110	39	20
3,3'-Dichlorobenzidine			16.0	13.2		ug/L		82	60 - 132	4	20
2,4-Dichlorophenol			16.0	15.8		ug/L		99	58 - 120	7	20
Diethyl phthalate			16.0	17.2		ug/L		108	62 - 123	5	20
2,4-Dimethylphenol			16.0	13.7		ug/L		86	51 - 115	1	20
Dimethyl phthalate			16.0	16.8		ug/L		105	63 - 122	7	20
Di-n-butyl phthalate			16.0	17.5		ug/L		109	69 - 129	8	20
4,6-Dinitro-2-methylphenol			32.0	34.6		ug/L		108	50 - 129	7	20
2,4-Dinitrophenol			32.0	30.9		ug/L		97	37 - 130	7	20
2,4-Dinitrotoluene			16.0	17.6		ug/L		110	63 - 129	5	20
2,6-Dinitrotoluene			16.0	17.7		ug/L		111	63 - 129	5	20
Di-n-octyl phthalate			16.0	14.4		ug/L		90	68 - 137	10	20
Fluoranthene			16.0	17.5		ug/L		109	68 - 126	8	20
Fluorene			16.0	16.2		ug/L		101	53 - 120	15	20
Hexachlorobenzene			16.0	15.4		ug/L		96	61 - 126	14	20
Hexachlorobutadiene			16.0	11.8	*1	ug/L		73	20 - 100	46	20
Hexachlorocyclopentadiene			16.0	12.0	J *1	ug/L		75	10 - 105	45	20
Hexachloroethane			16.0	10.5	*1	ug/L		65	20 - 100	42	20
Indeno[1,2,3-cd]pyrene			16.0	20.7		ug/L		130	65 - 133	10	20
Isophorone			16.0	15.6		ug/L		98	54 - 127	11	20
1-Methylnaphthalene			16.0	14.0	*1	ug/L		87	38 - 110	30	20
2-Methylnaphthalene			16.0	13.4	*1	ug/L		84	34 - 110	28	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-564347/3-A
Matrix: Water
Analysis Batch: 564526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylphenol			16.0	13.9		ug/L		87	53 - 115	0	20
3 & 4 Methylphenol			16.0	15.2		ug/L		95	50 - 116	0	20
Naphthalene			16.0	13.1	*1	ug/L		82	36 - 110	30	20
2-Nitroaniline			16.0	15.5		ug/L		97	59 - 138	7	20
3-Nitroaniline			16.0	10.6		ug/L		66	47 - 123	9	20
4-Nitroaniline			16.0	12.9		ug/L		81	35 - 110	6	20
Nitrobenzene			16.0	14.1		ug/L		88	54 - 121	10	20
2-Nitrophenol			16.0	16.0		ug/L		100	59 - 115	10	20
4-Nitrophenol			32.0	19.1		ug/L		60	20 - 110	8	20
N-Nitrosodi-n-propylamine			16.0	15.7		ug/L		98	47 - 131	4	20
N-Nitrosodiphenylamine			16.0	16.5		ug/L		103	66 - 120	9	20
2,2'-oxybis[1-chloropropane]			16.0	12.4		ug/L		78	38 - 140	8	20
Pentachlorophenol			32.0	26.0		ug/L		81	42 - 148	7	20
Phenanthrene			16.0	16.6		ug/L		104	65 - 120	12	20
Phenol			16.0	10.3		ug/L		65	33 - 100	8	20
Pyrene			16.0	18.9		ug/L		118	70 - 126	9	20
1,2,4-Trichlorobenzene			16.0	12.1	*1	ug/L		76	26 - 110	40	20
2,4,5-Trichlorophenol			16.0	16.3		ug/L		102	63 - 124	10	20
2,4,6-Trichlorophenol			16.0	16.1		ug/L		101	62 - 121	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*
2-Fluorophenol (Surr)	*59*		*27 - 110*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*
Phenol-d5 (Surr)	*53*		*20 - 110*
Terphenyl-d14 (Surr)	*111*		*40 - 145*
2,4,6-Tribromophenol (Surr)	*104*		*40 - 145*

Lab Sample ID: MB 500-565687/1-A
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Anthracene	<5.6		33	5.6	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzoic acid	<330		1700	330	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Benzyl alcohol	<330		670	330	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Bis(2-chloroethoxy)methane	<34		170	34	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Bis(2-chloroethyl)ether	<50		170	50	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Bis(2-ethylhexyl) phthalate	<61		170	61	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Bromophenyl phenyl ether	<44		170	44	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Butyl benzyl phthalate	<63		170	63	ug/Kg		10/08/20 21:03	10/09/20 11:02	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-565687/1-A
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<83		170	83	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Chloroaniline	<160		670	160	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Chloro-3-methylphenol	<110		330	110	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Chloronaphthalene	<37		170	37	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Chlorophenol	<57		170	57	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Chlorophenyl phenyl ether	<39		170	39	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Chrysene	<9.1		33	9.1	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Dibenzofuran	<39		170	39	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
1,3-Dichlorobenzene	<37		170	37	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4-Dichlorophenol	<79		330	79	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Diethyl phthalate	<56		170	56	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4-Dimethylphenol	<130		330	130	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Dimethyl phthalate	<43		170	43	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Di-n-butyl phthalate	<51		170	51	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4,6-Dinitro-2-methylphenol	<270		670	270	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4-Dinitrophenol	<590		670	590	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4-Dinitrotoluene	<53		170	53	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,6-Dinitrotoluene	<65		170	65	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Di-n-octyl phthalate	<54		170	54	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Fluorene	<4.7		33	4.7	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Hexachlorobenzene	<7.7		67	7.7	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Hexachlorobutadiene	<52		170	52	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Hexachlorocyclopentadiene	<190		670	190	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Hexachloroethane	<51		170	51	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Isophorone	<37		170	37	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Methylphenol	<53		170	53	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
3 & 4 Methylphenol	<55		170	55	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Nitroaniline	<45		170	45	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
3-Nitroaniline	<100		330	100	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Nitroaniline	<140		330	140	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Nitrobenzene	<8.3		33	8.3	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2-Nitrophenol	<79		330	79	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
4-Nitrophenol	<320		670	320	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
N-Nitrosodi-n-propylamine	<41		67	41	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
N-Nitrosodiphenylamine	<39		170	39	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Pentachlorophenol	<530		670	530	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Phenol	<74		170	74	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
Pyrene	<6.6		33	6.6	ug/Kg		10/08/20 21:03	10/09/20 11:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-565687/1-A
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4,5-Trichlorophenol	<76		330	76	ug/Kg		10/08/20 21:03	10/09/20 11:02	1
2,4,6-Trichlorophenol	<110		330	110	ug/Kg		10/08/20 21:03	10/09/20 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*10/08/20 21:03*	*10/09/20 11:02*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*10/08/20 21:03*	*10/09/20 11:02*	*1*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*10/08/20 21:03*	*10/09/20 11:02*	*1*
Phenol-d5 (Surr)	*78*		*30 - 153*	*10/08/20 21:03*	*10/09/20 11:02*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*10/08/20 21:03*	*10/09/20 11:02*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*31 - 143*	*10/08/20 21:03*	*10/09/20 11:02*	*1*

Lab Sample ID: LCS 500-565687/2-A
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1330	1200		ug/Kg		90	65 - 124
Acenaphthylene	1330	1180		ug/Kg		89	68 - 120
Anthracene	1330	1240		ug/Kg		93	70 - 114
Benzo[a]anthracene	1330	1190		ug/Kg		89	67 - 122
Benzo[a]pyrene	1330	1270		ug/Kg		95	65 - 133
Benzo[b]fluoranthene	1330	1270		ug/Kg		95	69 - 129
Benzo[g,h,i]perylene	1330	1300		ug/Kg		97	72 - 131
Benzoic acid	2670	1680	J	ug/Kg		63	10 - 100
Benzo[k]fluoranthene	1330	1300		ug/Kg		97	68 - 127
Benzyl alcohol	1330	956		ug/Kg		72	21 - 139
Bis(2-chloroethoxy)methane	1330	1200		ug/Kg		90	60 - 112
Bis(2-chloroethyl)ether	1330	1120		ug/Kg		84	55 - 111
Bis(2-ethylhexyl) phthalate	1330	1240		ug/Kg		93	72 - 131
4-Bromophenyl phenyl ether	1330	1250		ug/Kg		94	68 - 118
Butyl benzyl phthalate	1330	1220		ug/Kg		92	71 - 129
Carbazole	1330	1430		ug/Kg		108	65 - 142
4-Chloroaniline	1330	1210		ug/Kg		91	30 - 150
4-Chloro-3-methylphenol	1330	1260		ug/Kg		94	65 - 122
2-Chloronaphthalene	1330	1180		ug/Kg		88	69 - 114
2-Chlorophenol	1330	1130		ug/Kg		84	64 - 110
4-Chlorophenyl phenyl ether	1330	1220		ug/Kg		91	62 - 119
Chrysene	1330	1230		ug/Kg		92	63 - 120
Dibenz(a,h)anthracene	1330	1270		ug/Kg		95	64 - 131
Dibenzofuran	1330	1220		ug/Kg		91	66 - 115
1,2-Dichlorobenzene	1330	1150		ug/Kg		86	62 - 110
1,3-Dichlorobenzene	1330	1150		ug/Kg		86	65 - 124
1,4-Dichlorobenzene	1330	1140		ug/Kg		85	61 - 110
3,3'-Dichlorobenzidine	1330	1100		ug/Kg		83	35 - 128
2,4-Dichlorophenol	1330	1280		ug/Kg		96	58 - 120
Diethyl phthalate	1330	1190		ug/Kg		89	58 - 120
2,4-Dimethylphenol	1330	1280		ug/Kg		96	60 - 110

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-565687/2-A
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	1330	1210		ug/Kg		91	69 - 116
Di-n-butyl phthalate	1330	1220		ug/Kg		91	65 - 120
4,6-Dinitro-2-methylphenol	2670	1240		ug/Kg		46	10 - 110
2,4-Dinitrophenol	2670	662	J	ug/Kg		25	10 - 100
2,4-Dinitrotoluene	1330	1220		ug/Kg		92	69 - 124
2,6-Dinitrotoluene	1330	1240		ug/Kg		93	70 - 123
Di-n-octyl phthalate	1330	1230		ug/Kg		92	68 - 134
Fluoranthene	1330	1260		ug/Kg		94	62 - 120
Fluorene	1330	1200		ug/Kg		90	62 - 120
Hexachlorobenzene	1330	1280		ug/Kg		96	63 - 124
Hexachlorobutadiene	1330	1180		ug/Kg		89	56 - 120
Hexachlorocyclopentadiene	1330	1220		ug/Kg		92	10 - 133
Hexachloroethane	1330	1150		ug/Kg		87	60 - 114
Indeno[1,2,3-cd]pyrene	1330	1290		ug/Kg		97	68 - 130
Isophorone	1330	1160		ug/Kg		87	55 - 110
1-Methylnaphthalene	1330	1210		ug/Kg		91	68 - 111
2-Methylnaphthalene	1330	1220		ug/Kg		91	69 - 112
2-Methylphenol	1330	1260		ug/Kg		94	60 - 120
3 & 4 Methylphenol	1330	1310		ug/Kg		98	57 - 120
Naphthalene	1330	1180		ug/Kg		89	63 - 110
2-Nitroaniline	1330	1200		ug/Kg		90	57 - 124
3-Nitroaniline	1330	1060		ug/Kg		79	40 - 122
4-Nitroaniline	1330	1100		ug/Kg		82	60 - 160
Nitrobenzene	1330	1180		ug/Kg		89	60 - 116
2-Nitrophenol	1330	1280		ug/Kg		96	60 - 120
4-Nitrophenol	2670	2430		ug/Kg		91	30 - 122
N-Nitrosodi-n-propylamine	1330	1160		ug/Kg		87	56 - 118
N-Nitrosodiphenylamine	1330	1240		ug/Kg		93	65 - 112
2,2'-oxybis[1-chloropropane]	1330	1260		ug/Kg		95	40 - 124
Pentachlorophenol	2670	1420		ug/Kg		53	13 - 112
Phenanthrene	1330	1210		ug/Kg		91	62 - 120
Phenol	1330	1130		ug/Kg		85	56 - 122
Pyrene	1330	1260		ug/Kg		95	61 - 128
1,2,4-Trichlorobenzene	1330	1220		ug/Kg		92	66 - 117
2,4,5-Trichlorophenol	1330	1140		ug/Kg		86	50 - 120
2,4,6-Trichlorophenol	1330	1210		ug/Kg		90	57 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*
2-Fluorophenol (Surr)	*102*		*31 - 166*
Nitrobenzene-d5 (Surr)	*93*		*37 - 147*
Phenol-d5 (Surr)	*98*		*30 - 153*
Terphenyl-d14 (Surr)	*98*		*42 - 157*
2,4,6-Tribromophenol (Surr)	*97*		*31 - 143*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	<6.1		1360	1180		ug/Kg	☼	87	65 - 124
Acenaphthylene	<4.5		1360	1160		ug/Kg	☼	85	68 - 120
Anthracene	<5.7		1360	1160		ug/Kg	☼	85	70 - 114
Benzo[a]anthracene	<4.6		1360	1150		ug/Kg	☼	84	67 - 122
Benzo[a]pyrene	<6.6		1360	1210		ug/Kg	☼	89	65 - 133
Benzo[b]fluoranthene	<7.3		1360	1230		ug/Kg	☼	90	69 - 129
Benzo[g,h,i]perylene	<11	F1	1360	972	F1	ug/Kg	☼	71	72 - 131
Benzoic acid	430	J F1	2720	521	J F1	ug/Kg	☼	3	10 - 100
Benzo[k]fluoranthene	<10		1360	1240		ug/Kg	☼	91	68 - 127
Benzyl alcohol	<340	F2	1360	915		ug/Kg	☼	67	21 - 139
Bis(2-chloroethoxy)methane	<35		1360	1130		ug/Kg	☼	83	60 - 112
Bis(2-chloroethyl)ether	<51	F2	1360	1510		ug/Kg	☼	111	55 - 111
Bis(2-ethylhexyl) phthalate	<62		1360	1170		ug/Kg	☼	86	72 - 131
4-Bromophenyl phenyl ether	<45		1360	1160		ug/Kg	☼	85	68 - 118
Butyl benzyl phthalate	<65		1360	1150		ug/Kg	☼	85	71 - 129
Carbazole	<85		1360	1340		ug/Kg	☼	99	65 - 142
4-Chloroaniline	<160	F2	1360	1110		ug/Kg	☼	81	30 - 150
4-Chloro-3-methylphenol	<120		1360	1190		ug/Kg	☼	87	65 - 122
2-Chloronaphthalene	<38		1360	1140		ug/Kg	☼	83	69 - 114
2-Chlorophenol	<58	F1	1360	1120		ug/Kg	☼	82	64 - 110
4-Chlorophenyl phenyl ether	<40		1360	1180		ug/Kg	☼	86	62 - 119
Chrysene	<9.3		1360	1190		ug/Kg	☼	88	63 - 120
Dibenz(a,h)anthracene	<6.6		1360	1070		ug/Kg	☼	79	64 - 131
Dibenzofuran	<40		1360	1160		ug/Kg	☼	85	66 - 115
1,2-Dichlorobenzene	<41	F1 F2	1360	1030		ug/Kg	☼	76	62 - 110
1,3-Dichlorobenzene	<38	F1 F2	1360	991		ug/Kg	☼	73	60 - 110
1,4-Dichlorobenzene	<44	F1 F2	1360	1000		ug/Kg	☼	74	61 - 110
3,3'-Dichlorobenzidine	<48		1360	1050		ug/Kg	☼	77	35 - 128
2,4-Dichlorophenol	<81		1360	1220		ug/Kg	☼	90	58 - 120
Diethyl phthalate	<58		1360	1170		ug/Kg	☼	86	58 - 120
2,4-Dimethylphenol	<130		1360	1210		ug/Kg	☼	89	60 - 110
Dimethyl phthalate	<44		1360	1170		ug/Kg	☼	86	69 - 116
Di-n-butyl phthalate	<52		1360	1160		ug/Kg	☼	85	65 - 120
4,6-Dinitro-2-methylphenol	<270	F2	2720	310	J	ug/Kg	☼	11	10 - 110
2,4-Dinitrophenol	<600	F1	2720	<600	F1	ug/Kg	☼	0	10 - 100
2,4-Dinitrotoluene	<54		1360	1210		ug/Kg	☼	89	69 - 124
2,6-Dinitrotoluene	<67		1360	1230		ug/Kg	☼	90	70 - 123
Di-n-octyl phthalate	<56		1360	1140		ug/Kg	☼	84	68 - 134
Fluoranthene	<6.3		1360	1170		ug/Kg	☼	86	62 - 120
Fluorene	<4.8		1360	1150		ug/Kg	☼	85	62 - 120
Hexachlorobenzene	<7.9		1360	1210		ug/Kg	☼	89	63 - 124
Hexachlorobutadiene	<53	F1 F2	1360	1080		ug/Kg	☼	79	56 - 120
Hexachlorocyclopentadiene	<200		1360	739		ug/Kg	☼	54	10 - 133
Hexachloroethane	<52	F1 F2	1360	994		ug/Kg	☼	73	60 - 114
Indeno[1,2,3-cd]pyrene	<8.8		1360	1040		ug/Kg	☼	76	68 - 130
Isophorone	<38		1360	1090		ug/Kg	☼	80	55 - 110
1-Methylnaphthalene	<8.3	F1	1360	1140		ug/Kg	☼	83	68 - 111
2-Methylnaphthalene	<6.3	F1	1360	1130		ug/Kg	☼	83	69 - 112

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	<55		1360	1290		ug/Kg	☼	95	60 - 120
3 & 4 Methylphenol	<57		1360	1270		ug/Kg	☼	93	57 - 120
Naphthalene	<5.2	F1	1360	1100		ug/Kg	☼	80	63 - 110
2-Nitroaniline	<46		1360	1170		ug/Kg	☼	86	57 - 124
3-Nitroaniline	<110		1360	1110		ug/Kg	☼	82	40 - 122
4-Nitroaniline	<140		1360	989		ug/Kg	☼	73	60 - 160
Nitrobenzene	<8.5	F1	1360	1090		ug/Kg	☼	80	60 - 116
2-Nitrophenol	<80		1360	1170		ug/Kg	☼	86	60 - 120
4-Nitrophenol	<320		2720	2180		ug/Kg	☼	80	30 - 122
N-Nitrosodi-n-propylamine	<42		1360	1110		ug/Kg	☼	81	56 - 118
N-Nitrosodiphenylamine	<40		1360	1180		ug/Kg	☼	87	65 - 112
2,2'-oxybis[1-chloropropane]	<39	F2	1360	1200		ug/Kg	☼	88	40 - 124
Pentachlorophenol	<550	F1	2720	<540	F1	ug/Kg	☼	0	13 - 112
Phenanthrene	<4.7		1360	1150		ug/Kg	☼	85	62 - 120
Phenol	<76		1360	1110		ug/Kg	☼	82	56 - 122
Pyrene	<6.8		1360	1200		ug/Kg	☼	88	61 - 128
1,2,4-Trichlorobenzene	<37	F1 F2	1360	1110		ug/Kg	☼	82	66 - 117
2,4,5-Trichlorophenol	<78		1360	1160		ug/Kg	☼	85	50 - 120
2,4,6-Trichlorophenol	<120		1360	1160		ug/Kg	☼	85	57 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*43 - 145*
2-Fluorophenol (Surr)	*95*		*31 - 166*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*
Phenol-d5 (Surr)	*92*		*30 - 153*
Terphenyl-d14 (Surr)	*91*		*42 - 157*
2,4,6-Tribromophenol (Surr)	*82*		*31 - 143*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<6.1		1370	1010		ug/Kg	☼	73	65 - 124	16	30
Acenaphthylene	<4.5		1370	992		ug/Kg	☼	72	68 - 120	16	30
Anthracene	<5.7		1370	1140		ug/Kg	☼	83	70 - 114	2	30
Benzo[a]anthracene	<4.6		1370	1150		ug/Kg	☼	84	67 - 122	0	30
Benzo[a]pyrene	<6.6		1370	1180		ug/Kg	☼	86	65 - 133	2	30
Benzo[b]fluoranthene	<7.3		1370	1150		ug/Kg	☼	84	69 - 129	7	30
Benzo[g,h,i]perylene	<11	F1	1370	928	F1	ug/Kg	☼	68	72 - 131	5	30
Benzoic acid	430	J F1	2740	487	J F1	ug/Kg	☼	2	10 - 100	7	30
Benzo[k]fluoranthene	<10		1370	1190		ug/Kg	☼	87	68 - 127	4	30
Benzyl alcohol	<340	F2	1370	656	J F2	ug/Kg	☼	48	21 - 139	33	30
Bis(2-chloroethoxy)methane	<35		1370	868		ug/Kg	☼	63	60 - 112	26	30
Bis(2-chloroethyl)ether	<51	F2	1370	1090	F2	ug/Kg	☼	80	55 - 111	32	30
Bis(2-ethylhexyl) phthalate	<62		1370	1190		ug/Kg	☼	87	72 - 131	2	30
4-Bromophenyl phenyl ether	<45		1370	1100		ug/Kg	☼	80	68 - 118	6	30
Butyl benzyl phthalate	<65		1370	1160		ug/Kg	☼	84	71 - 129	0	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565757

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565687

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbazole	<85		1370	1370		ug/Kg	☼	100	65 - 142	2	30
4-Chloroaniline	<160	F2	1370	684	J F2	ug/Kg	☼	50	30 - 150	47	30
4-Chloro-3-methylphenol	<120		1370	1070		ug/Kg	☼	78	65 - 122	10	30
2-Chloronaphthalene	<38		1370	944		ug/Kg	☼	69	69 - 114	19	30
2-Chlorophenol	<58	F1	1370	858	F1	ug/Kg	☼	63	64 - 110	27	30
4-Chlorophenyl phenyl ether	<40		1370	1100		ug/Kg	☼	80	62 - 119	7	30
Chrysene	<9.3		1370	1190		ug/Kg	☼	87	63 - 120	0	30
Dibenz(a,h)anthracene	<6.6		1370	1050		ug/Kg	☼	77	64 - 131	2	30
Dibenzofuran	<40		1370	1050		ug/Kg	☼	77	66 - 115	10	30
1,2-Dichlorobenzene	<41	F1 F2	1370	701	F1 F2	ug/Kg	☼	51	62 - 110	38	30
1,3-Dichlorobenzene	<38	F1 F2	1370	646	F1 F2	ug/Kg	☼	47	60 - 110	42	30
1,4-Dichlorobenzene	<44	F1 F2	1370	653	F1 F2	ug/Kg	☼	48	61 - 110	42	30
3,3'-Dichlorobenzidine	<48		1370	925		ug/Kg	☼	68	35 - 128	13	30
2,4-Dichlorophenol	<81		1370	1020		ug/Kg	☼	74	58 - 120	18	30
Diethyl phthalate	<58		1370	1110		ug/Kg	☼	81	58 - 120	5	30
2,4-Dimethylphenol	<130		1370	941		ug/Kg	☼	69	60 - 110	25	30
Dimethyl phthalate	<44		1370	1070		ug/Kg	☼	78	69 - 116	9	30
Di-n-butyl phthalate	<52		1370	1170		ug/Kg	☼	85	65 - 120	1	30
4,6-Dinitro-2-methylphenol	<270	F2	2740	543	J F2	ug/Kg	☼	20	10 - 110	55	30
2,4-Dinitrophenol	<600	F1	2740	<600	F1	ug/Kg	☼	0	10 - 100	NC	30
2,4-Dinitrotoluene	<54		1370	1130		ug/Kg	☼	83	69 - 124	6	30
2,6-Dinitrotoluene	<67		1370	1140		ug/Kg	☼	83	70 - 123	8	30
Di-n-octyl phthalate	<56		1370	1130		ug/Kg	☼	83	68 - 134	0	30
Fluoranthene	<6.3		1370	1190		ug/Kg	☼	87	62 - 120	2	30
Fluorene	<4.8		1370	1070		ug/Kg	☼	78	62 - 120	7	30
Hexachlorobenzene	<7.9		1370	1140		ug/Kg	☼	83	63 - 124	6	30
Hexachlorobutadiene	<53	F1 F2	1370	722	F1 F2	ug/Kg	☼	53	56 - 120	39	30
Hexachlorocyclopentadiene	<200		1370	573	J	ug/Kg	☼	42	10 - 133	25	30
Hexachloroethane	<52	F1 F2	1370	644	F1 F2	ug/Kg	☼	47	60 - 114	43	30
Indeno[1,2,3-cd]pyrene	<8.8		1370	1010		ug/Kg	☼	74	68 - 130	2	30
Isophorone	<38		1370	853		ug/Kg	☼	62	55 - 110	24	30
1-Methylnaphthalene	<8.3	F1	1370	892	F1	ug/Kg	☼	65	68 - 111	24	30
2-Methylnaphthalene	<6.3	F1	1370	867	F1	ug/Kg	☼	63	69 - 112	26	30
2-Methylphenol	<55		1370	977		ug/Kg	☼	71	60 - 120	28	30
3 & 4 Methylphenol	<57		1370	1030		ug/Kg	☼	75	57 - 120	21	30
Naphthalene	<5.2	F1	1370	812	F1	ug/Kg	☼	59	63 - 110	30	30
2-Nitroaniline	<46		1370	1090		ug/Kg	☼	80	57 - 124	6	30
3-Nitroaniline	<110		1370	829		ug/Kg	☼	60	40 - 122	29	30
4-Nitroaniline	<140		1370	1040		ug/Kg	☼	76	60 - 160	6	30
Nitrobenzene	<8.5	F1	1370	812	F1	ug/Kg	☼	59	60 - 116	29	30
2-Nitrophenol	<80		1370	861		ug/Kg	☼	63	60 - 120	30	30
4-Nitrophenol	<320		2740	2100		ug/Kg	☼	77	30 - 122	4	30
N-Nitrosodi-n-propylamine	<42		1370	861		ug/Kg	☼	63	56 - 118	25	30
N-Nitrosodiphenylamine	<40		1370	1150		ug/Kg	☼	84	65 - 112	3	30
2,2'-oxybis[1-chloropropane]	<39	F2	1370	741	F2	ug/Kg	☼	54	40 - 124	47	30
Pentachlorophenol	<550	F1	2740	<550	F1	ug/Kg	☼	0	13 - 112	NC	30
Phenanthrene	<4.7		1370	1130		ug/Kg	☼	82	62 - 120	2	30
Phenol	<76		1370	930		ug/Kg	☼	68	56 - 122	18	30
Pyrene	<6.8		1370	1200		ug/Kg	☼	88	61 - 128	0	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-188477-4 MSD — **Client Sample ID: SB-03 (24-27.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565757 — **Prep Batch: 565687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	<37	F1 F2	1370	777	F1 F2	ug/Kg	☼	57	66 - 117	36	30
2,4,5-Trichlorophenol	<78		1370	1050		ug/Kg	☼	77	50 - 120	10	30
2,4,6-Trichlorophenol	<120		1370	1000		ug/Kg	☼	73	57 - 120	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*
2-Fluorophenol (Surr)	*69*		*31 - 166*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*
Phenol-d5 (Surr)	*70*		*30 - 153*
Terphenyl-d14 (Surr)	*92*		*42 - 157*
2,4,6-Tribromophenol (Surr)	*80*		*31 - 143*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-564550/19-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564741 — **Prep Batch: 564550**

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.75		1.5	0.75	mg/Kg		10/02/20 02:20	10/03/20 15:50	50

Lab Sample ID: LCS 500-564550/21-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564741 — **Prep Batch: 564550**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20.0	22.5		mg/Kg		113	80 - 120

Lab Sample ID: LCSD 500-564550/22-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564741 — **Prep Batch: 564550**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20.0	22.0		mg/Kg		110	80 - 120	3	20

Lab Sample ID: 500-188477-4 MS — **Client Sample ID: SB-03 (24-27.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564741 — **Prep Batch: 564550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	<1.4		36.9	35.0		mg/Kg	☼	95	80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 564741

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 564550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	<1.4		36.9	35.8		mg/Kg	☼	97	80 - 120	2	20

Lab Sample ID: MB 500-564742/2
Matrix: Water
Analysis Batch: 564742

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/03/20 22:49	1

Lab Sample ID: LCS 500-564742/3
Matrix: Water
Analysis Batch: 564742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	0.400	0.381		mg/L		95	80 - 120

Lab Sample ID: LCSD 500-564742/7
Matrix: Water
Analysis Batch: 564742

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	0.400	0.376		mg/L		94	80 - 120	1	20

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-564345/1-A
Matrix: Water
Analysis Batch: 564712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0053		0.040	0.0053	ug/L		10/01/20 06:15	10/02/20 21:04	1
alpha-BHC	<0.0026		0.040	0.0026	ug/L		10/01/20 06:15	10/02/20 21:04	1
beta-BHC	<0.010		0.040	0.010	ug/L		10/01/20 06:15	10/02/20 21:04	1
cis-Chlordane	<0.0044		0.040	0.0044	ug/L		10/01/20 06:15	10/02/20 21:04	1
4,4'-DDD	<0.013		0.040	0.013	ug/L		10/01/20 06:15	10/02/20 21:04	1
4,4'-DDE	<0.0038		0.040	0.0038	ug/L		10/01/20 06:15	10/02/20 21:04	1
4,4'-DDT	<0.0032		0.040	0.0032	ug/L		10/01/20 06:15	10/02/20 21:04	1
delta-BHC	<0.010		0.040	0.010	ug/L		10/01/20 06:15	10/02/20 21:04	1
Dieldrin	<0.013		0.040	0.013	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endosulfan I	<0.0041		0.040	0.0041	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endosulfan II	<0.0028		0.040	0.0028	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endosulfan sulfate	<0.012		0.040	0.012	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endrin	<0.014		0.040	0.014	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endrin aldehyde	<0.0082		0.040	0.0082	ug/L		10/01/20 06:15	10/02/20 21:04	1
Endrin ketone	<0.017		0.040	0.017	ug/L		10/01/20 06:15	10/02/20 21:04	1
gamma-BHC (Lindane)	<0.0056		0.040	0.0056	ug/L		10/01/20 06:15	10/02/20 21:04	1
Heptachlor	<0.014		0.040	0.014	ug/L		10/01/20 06:15	10/02/20 21:04	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-564345/1-A
Matrix: Water
Analysis Batch: 564712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<0.014		0.040	0.014	ug/L		10/01/20 06:15	10/02/20 21:04	1
Methoxychlor	<0.023		0.080	0.023	ug/L		10/01/20 06:15	10/02/20 21:04	1
Toxaphene	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 21:04	1
trans-Chlordane	<0.0072		0.040	0.0072	ug/L		10/01/20 06:15	10/02/20 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*30 - 130*	*10/01/20 06:15*	*10/02/20 21:04*	*1*
Tetrachloro-m-xylene	*70*		*30 - 120*	*10/01/20 06:15*	*10/02/20 21:04*	*1*

Lab Sample ID: LCS 500-564345/2-A
Matrix: Water
Analysis Batch: 564712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.320	0.256		ug/L		80	34 - 120
alpha-BHC	0.320	0.333		ug/L		104	65 - 120
beta-BHC	0.320	0.358		ug/L		112	65 - 120
cis-Chlordane	0.320	0.338		ug/L		106	70 - 120
4,4'-DDD	0.320	0.319		ug/L		100	69 - 124
4,4'-DDE	0.320	0.316		ug/L		99	58 - 122
4,4'-DDT	0.320	0.327		ug/L		102	62 - 127
delta-BHC	0.320	0.337		ug/L		105	70 - 122
Dieldrin	0.320	0.330		ug/L		103	68 - 120
Endosulfan I	0.320	0.223		ug/L		70	35 - 110
Endosulfan II	0.320	0.251		ug/L		78	53 - 110
Endosulfan sulfate	0.320	0.347		ug/L		108	70 - 133
Endrin	0.320	0.331		ug/L		104	60 - 132
Endrin aldehyde	0.320	0.339		ug/L		106	66 - 120
Endrin ketone	0.320	0.336		ug/L		105	63 - 130
gamma-BHC (Lindane)	0.320	0.332		ug/L		104	68 - 120
Heptachlor	0.320	0.271		ug/L		85	40 - 120
Heptachlor epoxide	0.320	0.336		ug/L		105	64 - 120
Methoxychlor	0.320	0.375		ug/L		117	63 - 135
trans-Chlordane	0.320	0.309		ug/L		96	58 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*30 - 130*
Tetrachloro-m-xylene	*69*		*30 - 120*

Lab Sample ID: LCSD 500-564345/3-A
Matrix: Water
Analysis Batch: 564712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.320	0.185	*1	ug/L		58	34 - 120	32	20
alpha-BHC	0.320	0.305		ug/L		95	65 - 120	9	20
beta-BHC	0.320	0.326		ug/L		102	65 - 120	9	20
cis-Chlordane	0.320	0.307		ug/L		96	70 - 120	10	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-564345/3-A
Matrix: Water
Analysis Batch: 564712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.320	0.323		ug/L		101	69 - 124	1	20
4,4'-DDE			0.320	0.287		ug/L		90	58 - 122	10	20
4,4'-DDT			0.320	0.311		ug/L		97	62 - 127	5	20
delta-BHC			0.320	0.311		ug/L		97	70 - 122	8	20
Dieldrin			0.320	0.312		ug/L		98	68 - 120	6	20
Endosulfan I			0.320	0.207		ug/L		65	35 - 110	7	20
Endosulfan II			0.320	0.262		ug/L		82	53 - 110	4	20
Endosulfan sulfate			0.320	0.326		ug/L		102	70 - 133	6	20
Endrin			0.320	0.322		ug/L		101	60 - 132	3	20
Endrin aldehyde			0.320	0.326		ug/L		102	66 - 120	4	20
Endrin ketone			0.320	0.321		ug/L		100	63 - 130	4	20
gamma-BHC (Lindane)			0.320	0.298		ug/L		93	68 - 120	11	20
Heptachlor			0.320	0.208	*1	ug/L		65	40 - 120	26	20
Heptachlor epoxide			0.320	0.311		ug/L		97	64 - 120	8	20
Methoxychlor			0.320	0.354		ug/L		110	63 - 135	6	20
trans-Chlordane			0.320	0.278		ug/L		87	58 - 120	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*30 - 130*
Tetrachloro-m-xylene	*71*		*30 - 120*

Lab Sample ID: MB 500-565715/1-A
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.69		1.7	0.69	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
alpha-BHC	<0.42		1.7	0.42	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
beta-BHC	<0.52		1.7	0.52	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
cis-Chlordane	<0.85		1.7	0.85	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
4,4'-DDD	<0.33		1.7	0.33	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
4,4'-DDT	<0.88		1.7	0.88	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
delta-BHC	<0.53		1.7	0.53	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Dieldrin	<0.23		1.7	0.23	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endosulfan I	<0.73		1.7	0.73	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endrin	<0.23		1.7	0.23	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endrin aldehyde	<0.28		1.7	0.28	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
gamma-BHC (Lindane)	<0.36		1.7	0.36	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Heptachlor	<0.70		1.7	0.70	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Heptachlor epoxide	<0.59		1.7	0.59	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Methoxychlor	<0.32		8.3	0.32	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
Toxaphene	<7.0		17	7.0	ug/Kg		10/09/20 06:43	10/09/20 23:44	1
trans-Chlordane	<0.44		1.7	0.44	ug/Kg		10/09/20 06:43	10/09/20 23:44	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-565715/1-A
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565715

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		33 - 148	10/09/20 06:43	10/09/20 23:44	1
Tetrachloro-m-xylene	100		30 - 121	10/09/20 06:43	10/09/20 23:44	1

Lab Sample ID: LCS 500-565715/2-A
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	14.2		ug/Kg		107	52 - 122
alpha-BHC	13.3	14.2		ug/Kg		107	50 - 123
beta-BHC	13.3	14.8		ug/Kg		111	44 - 140
cis-Chlordane	13.3	15.0		ug/Kg		112	52 - 129
4,4'-DDD	13.3	15.9		ug/Kg		119	47 - 137
4,4'-DDE	13.3	15.1		ug/Kg		113	50 - 130
4,4'-DDT	13.3	15.3		ug/Kg		115	46 - 143
delta-BHC	13.3	15.1		ug/Kg		114	57 - 125
Dieldrin	13.3	15.0		ug/Kg		113	51 - 133
Endosulfan I	13.3	8.97		ug/Kg		67	30 - 120
Endosulfan II	13.3	11.2		ug/Kg		84	30 - 120
Endosulfan sulfate	13.3	14.8		ug/Kg		111	42 - 150
Endrin	13.3	15.2		ug/Kg		114	43 - 144
Endrin aldehyde	13.3	15.1		ug/Kg		113	39 - 131
Endrin ketone	13.3	15.0		ug/Kg		112	51 - 135
gamma-BHC (Lindane)	13.3	14.5		ug/Kg		109	50 - 122
Heptachlor	13.3	14.3		ug/Kg		108	53 - 129
Heptachlor epoxide	13.3	17.1		ug/Kg		128	50 - 139
Methoxychlor	13.3	16.0		ug/Kg		120	45 - 144
trans-Chlordane	13.3	15.0		ug/Kg		113	52 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	122		33 - 148
Tetrachloro-m-xylene	107		30 - 121

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	<0.70		13.8	12.3		ug/Kg	☼	90	52 - 122
alpha-BHC	<0.43		13.8	12.7		ug/Kg	☼	92	50 - 123
beta-BHC	<0.53		13.8	13.3		ug/Kg	☼	96	44 - 140
cis-Chlordane	<0.86		13.8	12.7		ug/Kg	☼	92	52 - 129
4,4'-DDD	<0.34		13.8	16.5		ug/Kg	☼	120	47 - 137
4,4'-DDE	<0.28		13.8	13.0		ug/Kg	☼	94	50 - 130
4,4'-DDT	<0.89	F1	13.8	7.81		ug/Kg	☼	57	46 - 143
delta-BHC	<0.53		13.8	13.3		ug/Kg	☼	97	57 - 125
Dieldrin	<0.23		13.8	13.4		ug/Kg	☼	97	51 - 133
Endosulfan I	<0.74		13.8	7.55		ug/Kg	☼	55	30 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan II	<0.27		13.8	10.3		ug/Kg	☼	75	30 - 120
Endosulfan sulfate	<0.31		13.8	12.9		ug/Kg	☼	94	42 - 150
Endrin	<0.23		13.8	13.1		ug/Kg	☼	95	43 - 144
Endrin aldehyde	<0.28		13.8	12.7		ug/Kg	☼	93	39 - 131
Endrin ketone	<0.38		13.8	11.5		ug/Kg	☼	83	51 - 135
gamma-BHC (Lindane)	<0.37		13.8	12.6		ug/Kg	☼	92	50 - 122
Heptachlor	<0.71		13.8	11.8		ug/Kg	☼	86	53 - 129
Heptachlor epoxide	<0.60		13.8	13.6		ug/Kg	☼	99	50 - 139
Methoxychlor	<0.33		13.8	8.99		ug/Kg	☼	65	45 - 144
trans-Chlordane	<0.44		13.8	13.1		ug/Kg	☼	95	52 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*33 - 148*
Tetrachloro-m-xylene	*91*		*30 - 121*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565875

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	<0.70		13.5	12.1		ug/Kg	☼	89	52 - 122	2	30
alpha-BHC	<0.43		13.5	12.6		ug/Kg	☼	93	50 - 123	1	30
beta-BHC	<0.53		13.5	12.6		ug/Kg	☼	93	44 - 140	5	30
cis-Chlordane	<0.86		13.5	12.5		ug/Kg	☼	92	52 - 129	2	30
4,4'-DDD	<0.34		13.5	16.6		ug/Kg	☼	122	47 - 137	0	30
4,4'-DDE	<0.28		13.5	12.7		ug/Kg	☼	94	50 - 130	2	30
4,4'-DDT	<0.89	F1	13.5	6.01	F1	ug/Kg	☼	44	46 - 143	26	30
delta-BHC	<0.53		13.5	12.6		ug/Kg	☼	93	57 - 125	6	30
Dieldrin	<0.23		13.5	12.7		ug/Kg	☼	94	51 - 133	5	30
Endosulfan I	<0.74		13.5	7.91		ug/Kg	☼	58	30 - 120	5	30
Endosulfan II	<0.27		13.5	10.1		ug/Kg	☼	75	30 - 120	2	30
Endosulfan sulfate	<0.31		13.5	13.6		ug/Kg	☼	100	42 - 150	5	30
Endrin	<0.23		13.5	12.6		ug/Kg	☼	93	43 - 144	4	30
Endrin aldehyde	<0.28		13.5	12.8		ug/Kg	☼	94	39 - 131	0	30
Endrin ketone	<0.38		13.5	11.3		ug/Kg	☼	83	51 - 135	2	30
gamma-BHC (Lindane)	<0.37		13.5	12.3		ug/Kg	☼	91	50 - 122	2	30
Heptachlor	<0.71		13.5	11.6		ug/Kg	☼	85	53 - 129	2	30
Heptachlor epoxide	<0.60		13.5	16.3		ug/Kg	☼	120	50 - 139	18	30
Methoxychlor	<0.33		13.5	9.05		ug/Kg	☼	67	45 - 144	1	30
trans-Chlordane	<0.44		13.5	12.1		ug/Kg	☼	90	52 - 132	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*33 - 148*
Tetrachloro-m-xylene	*92*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-564345/1-A
Matrix: Water
Analysis Batch: 564714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1221	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1232	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1242	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1248	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1254	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1
PCB-1260	<0.070		0.40	0.070	ug/L		10/01/20 06:15	10/02/20 23:15	1
Polychlorinated biphenyls, Total	<0.20		0.40	0.20	ug/L		10/01/20 06:15	10/02/20 23:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 120*	*10/01/20 06:15*	*10/02/20 23:15*	*1*
DCB Decachlorobiphenyl	*147*	*X*	*30 - 140*	*10/01/20 06:15*	*10/02/20 23:15*	*1*

Lab Sample ID: LCS 500-564345/4-A
Matrix: Water
Analysis Batch: 564714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.83		ug/L		96	56 - 120		
PCB-1260			4.00	4.94		ug/L		123	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*66*		*30 - 120*
DCB Decachlorobiphenyl	*131*		*30 - 140*

Lab Sample ID: LCSD 500-564345/5-A
Matrix: Water
Analysis Batch: 564714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	3.89		ug/L		97	56 - 120	2	20
PCB-1260			4.00	4.96		ug/L		124	53 - 137	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 120*
DCB Decachlorobiphenyl	*125*		*30 - 140*

Lab Sample ID: MB 500-565715/1-A
Matrix: Solid
Analysis Batch: 565879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
PCB-1221	<7.3		17	7.3	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
PCB-1232	<7.3		17	7.3	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
PCB-1242	<5.5		17	5.5	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
PCB-1248	<6.6		17	6.6	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
PCB-1254	<3.6		17	3.6	ug/Kg		10/09/20 06:43	10/09/20 22:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-565715/1-A
Matrix: Solid
Analysis Batch: 565879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		10/09/20 06:43	10/09/20 22:29	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		10/09/20 06:43	10/09/20 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*49 - 129*	*10/09/20 06:43*	*10/09/20 22:29*	*1*
DCB Decachlorobiphenyl	*101*		*37 - 121*	*10/09/20 06:43*	*10/09/20 22:29*	*1*

Lab Sample ID: LCS 500-565715/3-A
Matrix: Solid
Analysis Batch: 565879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565715

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	154		ug/Kg		93	57 - 120		
PCB-1260			167	170		ug/Kg		102	61 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*49 - 129*
DCB Decachlorobiphenyl	*98*		*37 - 121*

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565879

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<6.0		171	175		ug/Kg	☼	102	57 - 120		
PCB-1260	<8.3		171	186		ug/Kg	☼	108	61 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*49 - 129*
DCB Decachlorobiphenyl	*106*		*37 - 121*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565879

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<6.0		169	151		ug/Kg	☼	89	57 - 120	15	30
PCB-1260	<8.3		169	161		ug/Kg	☼	95	61 - 125	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*49 - 129*
DCB Decachlorobiphenyl	*93*		*37 - 121*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-564169/1-A
Matrix: Water
Analysis Batch: 564328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.47		1.0	0.47	ug/L		09/30/20 10:10	10/01/20 13:14	1
2,4-DB	<0.12		1.0	0.12	ug/L		09/30/20 10:10	10/01/20 13:14	1
Dicamba	<0.077		1.0	0.077	ug/L		09/30/20 10:10	10/01/20 13:14	1
Dichlorprop	<0.37		1.0	0.37	ug/L		09/30/20 10:10	10/01/20 13:14	1
Silvex (2,4,5-TP)	<0.29		1.0	0.29	ug/L		09/30/20 10:10	10/01/20 13:14	1
2,4,5-T	<0.43		1.0	0.43	ug/L		09/30/20 10:10	10/01/20 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*71*		*25 - 130*	*09/30/20 10:10*	*10/01/20 13:14*	*1*

Lab Sample ID: LCS 500-564169/2-A
Matrix: Water
Analysis Batch: 564328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	10.0	6.50		ug/L		65	30 - 115
2,4-DB	10.0	6.41		ug/L		64	35 - 115
Dicamba	5.00	3.52		ug/L		70	43 - 110
Dichlorprop	10.0	6.79		ug/L		68	40 - 110
Silvex (2,4,5-TP)	2.50	1.66		ug/L		66	32 - 115
2,4,5-T	2.50	1.76		ug/L		70	30 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*69*		*25 - 130*

Lab Sample ID: LCSD 500-564169/3-A
Matrix: Water
Analysis Batch: 564328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	10.0	6.47		ug/L		65	30 - 115	0	20
2,4-DB	10.0	6.41		ug/L		64	35 - 115	0	20
Dicamba	5.00	3.50		ug/L		70	43 - 110	1	20
Dichlorprop	10.0	6.72		ug/L		67	40 - 110	1	20
Silvex (2,4,5-TP)	2.50	1.63		ug/L		65	32 - 115	2	20
2,4,5-T	2.50	1.72		ug/L		69	30 - 115	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*68*		*25 - 130*

Lab Sample ID: MB 500-565274/1-A
Matrix: Solid
Analysis Batch: 565691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<94		330	94	ug/Kg		10/07/20 07:34	10/09/20 00:57	10
2,4-DB	<98		330	98	ug/Kg		10/07/20 07:34	10/09/20 00:57	10
Dicamba	<69		330	69	ug/Kg		10/07/20 07:34	10/09/20 00:57	10

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 500-565274/1-A
Matrix: Solid
Analysis Batch: 565691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorprop	<90		330	90	ug/Kg		10/07/20 07:34	10/09/20 00:57	10
Silvex (2,4,5-TP)	<85		330	85	ug/Kg		10/07/20 07:34	10/09/20 00:57	10
2,4,5-T	<81		330	81	ug/Kg		10/07/20 07:34	10/09/20 00:57	10

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*59*		*25 - 120*	*10/07/20 07:34*	*10/09/20 00:57*	*10*

Lab Sample ID: LCS 500-565274/2-A
Matrix: Solid
Analysis Batch: 565691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	1350	722		ug/Kg		53	20 - 115
2,4-DB	1350	872		ug/Kg		65	20 - 120
Dicamba	1340	1060		ug/Kg		79	25 - 110
Dichlorprop	1340	1000		ug/Kg		75	25 - 110
Silvex (2,4,5-TP)	1340	1060		ug/Kg		79	29 - 115
2,4,5-T	1340	1000		ug/Kg		75	25 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*70*		*25 - 120*

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565743

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	<97		1400	592		ug/Kg	☼	42	20 - 115
2,4-DB	<100		1390	685		ug/Kg	☼	49	20 - 120
Dicamba	<71		1390	919		ug/Kg	☼	66	25 - 110
Dichlorprop	<93		1380	859		ug/Kg	☼	62	25 - 110
Silvex (2,4,5-TP)	<88		1380	907		ug/Kg	☼	66	29 - 115
2,4,5-T	<83		1390	859		ug/Kg	☼	62	25 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCAA	*60*		*25 - 120*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565743

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	<97		1400	584		ug/Kg	☼	42	20 - 115	1	30
2,4-DB	<100		1390	640		ug/Kg	☼	46	20 - 120	7	30
Dicamba	<71		1390	890		ug/Kg	☼	64	25 - 110	3	30
Dichlorprop	<93		1380	844		ug/Kg	☼	61	25 - 110	2	30
Silvex (2,4,5-TP)	<88		1380	862		ug/Kg	☼	62	29 - 115	5	30
2,4,5-T	<83		1390	843		ug/Kg	☼	61	25 - 115	2	30

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCAA	60		25 - 120

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-564670/1-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<0.033		0.10	0.033	mg/L		10/02/20 13:24	10/02/20 23:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	62		42 - 111	10/02/20 13:24	10/02/20 23:07	1

Lab Sample ID: LCS 500-564670/2-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564670

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			0.400	0.357		mg/L		89	75 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Nonane	60		42 - 111

Lab Sample ID: LCSD 500-564670/3-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564670

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			0.400	0.371		mg/L		93	75 - 125	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Nonane	73		42 - 111

Lab Sample ID: MB 500-565022/1-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.36	J	4.0	1.6	mg/Kg		10/06/20 05:48	10/07/20 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	93		44 - 148	10/06/20 05:48	10/07/20 11:53	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-565022/2-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	19.9		mg/Kg		99	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*76*		*44 - 148*

Lab Sample ID: LCSD 500-565022/3-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	20.8		mg/Kg		104	70 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*75*		*44 - 148*

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)	5.0	B	20.7	22.1		mg/Kg	☼	83	70 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Nonane	*74*		*44 - 148*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	5.0	B	20.7	21.4		mg/Kg	☼	80	70 - 120	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Nonane	*70*		*44 - 148*

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-417456/1-A
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417456

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.15		1.0	0.15	pg/g		10/01/20 04:48	10/10/20 18:27	1
2,3,7,8-TCDF	<0.072		1.0	0.072	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,7,8-PeCDD	<0.14		5.0	0.14	pg/g		10/01/20 04:48	10/10/20 18:27	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-417456/1-A
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417456

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	<0.065		5.0	0.065	pg/g		10/01/20 04:48	10/10/20 18:27	1
2,3,4,7,8-PeCDF	<0.070		5.0	0.070	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,4,7,8-HxCDD	0.239	J	5.0	0.025	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,6,7,8-HxCDD	<0.029		5.0	0.029	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,7,8,9-HxCDD	0.147	J	5.0	0.025	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,4,7,8-HxCDF	<0.051		5.0	0.051	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,6,7,8-HxCDF	<0.044		5.0	0.044	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,7,8,9-HxCDF	<0.037		5.0	0.037	pg/g		10/01/20 04:48	10/10/20 18:27	1
2,3,4,6,7,8-HxCDF	<0.037		5.0	0.037	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,4,6,7,8-HpCDD	0.300	J q	5.0	0.035	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,4,6,7,8-HpCDF	0.482	J	5.0	0.021	pg/g		10/01/20 04:48	10/10/20 18:27	1
1,2,3,4,7,8,9-HpCDF	0.203	J	5.0	0.024	pg/g		10/01/20 04:48	10/10/20 18:27	1
OCDD	1.47	J q	10	0.021	pg/g		10/01/20 04:48	10/10/20 18:27	1
OCDF	1.54	J	10	0.085	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total TCDD	<0.15		1.0	0.15	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total TCDF	<0.072		1.0	0.072	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total PeCDD	<0.14		5.0	0.14	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total PeCDF	<0.070		5.0	0.070	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total HxCDD	0.537	J q	5.0	0.026	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total HxCDF	<0.051		5.0	0.051	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total HpCDD	0.866	J q	5.0	0.035	pg/g		10/01/20 04:48	10/10/20 18:27	1
Total HpCDF	0.807	J q	5.0	0.023	pg/g		10/01/20 04:48	10/10/20 18:27	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*75*		*25 - 164*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-2,3,7,8-TCDF	*71*		*24 - 169*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,7,8-PeCDD	*78*		*25 - 181*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,7,8-PeCDF	*79*		*24 - 185*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-2,3,4,7,8-PeCDF	*79*		*21 - 178*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,4,7,8-HxCDD	*105*		*32 - 141*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,6,7,8-HxCDD	*103*		*28 - 130*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,4,7,8-HxCDF	*70*		*26 - 152*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,6,7,8-HxCDF	*76*		*26 - 123*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,7,8,9-HxCDF	*82*		*29 - 147*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-2,3,4,6,7,8-HxCDF	*78*		*28 - 136*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*83*		*23 - 140*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*28 - 143*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*75*		*26 - 138*	*10/01/20 04:48*	*10/10/20 18:27*	*1*
13C-OCDD	*68*		*17 - 157*	*10/01/20 04:48*	*10/10/20 18:27*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*88*		*35 - 197*	*10/01/20 04:48*	*10/10/20 18:27*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-417456/2-A
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417456

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			20.0	19.7		pg/g		99	67 - 158		
2,3,7,8-TCDF			20.0	21.0		pg/g		105	75 - 158		
1,2,3,7,8-PeCDD			100	103		pg/g		103	70 - 142		
1,2,3,7,8-PeCDF			100	102		pg/g		102	80 - 134		
2,3,4,7,8-PeCDF			100	101		pg/g		101	68 - 160		
1,2,3,4,7,8-HxCDD			100	109		pg/g		109	70 - 164		
1,2,3,6,7,8-HxCDD			100	99.1		pg/g		99	76 - 134		
1,2,3,7,8,9-HxCDD			100	82.8		pg/g		83	64 - 162		
1,2,3,4,7,8-HxCDF			100	107		pg/g		107	72 - 134		
1,2,3,6,7,8-HxCDF			100	108		pg/g		108	84 - 130		
1,2,3,7,8,9-HxCDF			100	102		pg/g		102	78 - 130		
2,3,4,6,7,8-HxCDF			100	106		pg/g		106	70 - 156		
1,2,3,4,6,7,8-HpCDD			100	105		pg/g		105	70 - 140		
1,2,3,4,6,7,8-HpCDF			100	102		pg/g		102	82 - 122		
1,2,3,4,7,8,9-HpCDF			100	100		pg/g		100	78 - 138		
OCDD			200	201		pg/g		100	78 - 144		
OCDF			200	188		pg/g		94	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*70*		*20 - 175*
13C-2,3,7,8-TCDF	*62*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*71*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*71*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*69*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*93*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*86*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*60*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*65*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*69*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*66*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*68*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*73*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*64*		*20 - 186*
13C-OCDD	*60*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*91*		*31 - 191*

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 417456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD	<0.13		20.2	21.2		pg/g	☼	105	67 - 158		
2,3,7,8-TCDF	<0.068		20.2	21.3		pg/g	☼	105	75 - 158		
1,2,3,7,8-PeCDD	<0.10		101	112		pg/g	☼	111	70 - 142		
1,2,3,7,8-PeCDF	<0.050		101	106		pg/g	☼	105	80 - 134		
2,3,4,7,8-PeCDF	<0.059		101	104		pg/g	☼	103	68 - 160		

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 417456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8-HxCDD	<0.033		101	113		pg/g	☼	112	70 - 164
1,2,3,6,7,8-HxCDD	<0.042		101	98.9		pg/g	☼	98	76 - 134
1,2,3,7,8,9-HxCDD	0.082	J B	101	83.1		pg/g	☼	82	64 - 162
1,2,3,4,7,8-HxCDF	<0.055		101	111		pg/g	☼	109	72 - 134
1,2,3,6,7,8-HxCDF	<0.049		101	109		pg/g	☼	108	84 - 130
1,2,3,7,8,9-HxCDF	<0.042		101	107		pg/g	☼	106	78 - 130
2,3,4,6,7,8-HxCDF	<0.041		101	109		pg/g	☼	108	70 - 156
1,2,3,4,6,7,8-HpCDD	3.5	J B	101	112		pg/g	☼	107	70 - 140
1,2,3,4,6,7,8-HpCDF	0.39	J q B	101	105		pg/g	☼	103	82 - 122
1,2,3,4,7,8,9-HpCDF	<0.030		101	104		pg/g	☼	103	78 - 138
OCDD	41	B	202	240		pg/g	☼	98	78 - 144
OCDF	1.8	J B	202	201		pg/g	☼	99	63 - 170

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*67*		*25 - 164*
13C-2,3,7,8-TCDF	*64*		*24 - 169*
13C-1,2,3,7,8-PeCDD	*66*		*25 - 181*
13C-1,2,3,7,8-PeCDF	*70*		*24 - 185*
13C-2,3,4,7,8-PeCDF	*66*		*21 - 178*
13C-1,2,3,4,7,8-HxCDD	*97*		*32 - 141*
13C-1,2,3,6,7,8-HxCDD	*89*		*28 - 130*
13C-1,2,3,4,7,8-HxCDF	*62*		*26 - 152*
13C-1,2,3,6,7,8-HxCDF	*68*		*26 - 123*
13C-1,2,3,7,8,9-HxCDF	*69*		*29 - 147*
13C-2,3,4,6,7,8-HxCDF	*69*		*28 - 136*
13C-1,2,3,4,6,7,8-HpCDD	*71*		*23 - 140*
13C-1,2,3,4,6,7,8-HpCDF	*75*		*28 - 143*
13C-1,2,3,4,7,8,9-HpCDF	*66*		*26 - 138*
13C-OCDD	*61*		*17 - 157*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*85*		*35 - 197*

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 417456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	<0.13		20.0	21.3		pg/g	☼	106	67 - 158	0	50
2,3,7,8-TCDF	<0.068		20.0	20.9		pg/g	☼	104	75 - 158	2	50
1,2,3,7,8-PeCDD	<0.10		99.9	107		pg/g	☼	107	70 - 142	5	50
1,2,3,7,8-PeCDF	<0.050		99.9	103		pg/g	☼	103	80 - 134	3	50
2,3,4,7,8-PeCDF	<0.059		99.9	101		pg/g	☼	101	68 - 160	3	50
1,2,3,4,7,8-HxCDD	<0.033		99.9	111		pg/g	☼	111	70 - 164	2	50
1,2,3,6,7,8-HxCDD	<0.042		99.9	99.4		pg/g	☼	100	76 - 134	1	50
1,2,3,7,8,9-HxCDD	0.082	J B	99.9	88.4		pg/g	☼	88	64 - 162	6	50
1,2,3,4,7,8-HxCDF	<0.055		99.9	109		pg/g	☼	109	72 - 134	2	50
1,2,3,6,7,8-HxCDF	<0.049		99.9	109		pg/g	☼	109	84 - 130	1	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 420643

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 417456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,7,8,9-HxCDF	<0.042		99.9	105		pg/g	☼	105	78 - 130	2	50
2,3,4,6,7,8-HxCDF	<0.041		99.9	108		pg/g	☼	108	70 - 156	1	50
1,2,3,4,6,7,8-HpCDD	3.5	J B	99.9	108		pg/g	☼	104	70 - 140	4	50
1,2,3,4,6,7,8-HpCDF	0.39	J q B	99.9	103		pg/g	☼	103	82 - 122	2	50
1,2,3,4,7,8,9-HpCDF	<0.030		99.9	101		pg/g	☼	101	78 - 138	3	50
OCDD	41	B	200	228		pg/g	☼	93	78 - 144	5	50
OCDF	1.8	J B	200	196		pg/g	☼	97	63 - 170	3	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*69*		*25 - 164*
13C-2,3,7,8-TCDF	*64*		*24 - 169*
13C-1,2,3,7,8-PeCDD	*70*		*25 - 181*
13C-1,2,3,7,8-PeCDF	*70*		*24 - 185*
13C-2,3,4,7,8-PeCDF	*65*		*21 - 178*
13C-1,2,3,4,7,8-HxCDD	*90*		*32 - 141*
13C-1,2,3,6,7,8-HxCDD	*82*		*28 - 130*
13C-1,2,3,4,7,8-HxCDF	*56*		*26 - 152*
13C-1,2,3,6,7,8-HxCDF	*60*		*26 - 123*
13C-1,2,3,7,8,9-HxCDF	*75*		*29 - 147*
13C-2,3,4,6,7,8-HxCDF	*65*		*28 - 136*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*23 - 140*
13C-1,2,3,4,6,7,8-HpCDF	*69*		*28 - 143*
13C-1,2,3,4,7,8,9-HpCDF	*71*		*26 - 138*
13C-OCDD	*70*		*17 - 157*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*87*		*35 - 197*

Lab Sample ID: MB 320-417490/1-A
Matrix: Water
Analysis Batch: 420113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417490

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.69		10	0.69	pg/L		10/01/20 08:42	10/08/20 11:56	1
2,3,7,8-TCDF	1.04	J	10	0.43	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,7,8-PeCDD	4.60	J q	50	1.1	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,7,8-PeCDF	3.77	J	50	0.71	pg/L		10/01/20 08:42	10/08/20 11:56	1
2,3,4,7,8-PeCDF	4.04	J	50	0.79	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,4,7,8-HxCDD	8.52	J	50	1.8	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,6,7,8-HxCDD	6.23	J q	50	1.8	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,7,8,9-HxCDD	6.41	J	50	1.6	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,4,7,8-HxCDF	6.57	J	50	1.4	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,6,7,8-HxCDF	7.55	J	50	1.5	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,7,8,9-HxCDF	8.65	J	50	1.1	pg/L		10/01/20 08:42	10/08/20 11:56	1
2,3,4,6,7,8-HxCDF	6.98	J	50	1.5	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,4,6,7,8-HpCDD	9.88	J	50	0.53	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,4,6,7,8-HpCDF	9.01	J q	50	0.72	pg/L		10/01/20 08:42	10/08/20 11:56	1
1,2,3,4,7,8,9-HpCDF	10.1	J	50	0.77	pg/L		10/01/20 08:42	10/08/20 11:56	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-417490/1-A
Matrix: Water
Analysis Batch: 420113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417490

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	27.3	J	100	0.74	pg/L		10/01/20 08:42	10/08/20 11:56	1
OCDF	21.0	J	100	0.74	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total TCDD	5.57	J	10	0.69	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total TCDF	1.04	J	10	0.43	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total PeCDD	4.60	J q	50	1.1	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total PeCDF	7.81	J	50	0.75	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total HxCDD	21.2	J q	50	1.7	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total HxCDF	29.8	J	50	1.4	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total HpCDD	9.88	J	50	0.53	pg/L		10/01/20 08:42	10/08/20 11:56	1
Total HpCDF	19.1	J q	50	0.74	pg/L		10/01/20 08:42	10/08/20 11:56	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*91*		*25 - 164*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-2,3,7,8-TCDF	*81*		*24 - 169*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*25 - 181*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,7,8-PeCDF	*70*		*24 - 185*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-2,3,4,7,8-PeCDF	*69*		*21 - 178*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,4,7,8-HxCDD	*87*		*32 - 141*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*28 - 130*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,4,7,8-HxCDF	*71*		*26 - 152*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,6,7,8-HxCDF	*78*		*26 - 123*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,7,8,9-HxCDF	*74*		*29 - 147*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*28 - 136*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*72*		*23 - 140*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*70*		*28 - 143*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*69*		*26 - 138*	*10/01/20 08:42*	*10/08/20 11:56*	*1*
13C-OCDD	*60*		*17 - 157*	*10/01/20 08:42*	*10/08/20 11:56*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*102*		*35 - 197*	*10/01/20 08:42*	*10/08/20 11:56*	*1*

Lab Sample ID: LCS 320-417490/2-A
Matrix: Water
Analysis Batch: 420113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	218		pg/L		109	67 - 158
2,3,7,8-TCDF	200	223		pg/L		111	75 - 158
1,2,3,7,8-PeCDD	1000	969		pg/L		97	70 - 142
1,2,3,7,8-PeCDF	1000	985		pg/L		98	80 - 134
2,3,4,7,8-PeCDF	1000	1010		pg/L		101	68 - 160
1,2,3,4,7,8-HxCDD	1000	958		pg/L		96	70 - 164
1,2,3,6,7,8-HxCDD	1000	955		pg/L		95	76 - 134
1,2,3,7,8,9-HxCDD	1000	847		pg/L		85	64 - 162
1,2,3,4,7,8-HxCDF	1000	998		pg/L		100	72 - 134
1,2,3,6,7,8-HxCDF	1000	1010		pg/L		101	84 - 130
1,2,3,7,8,9-HxCDF	1000	1010		pg/L		101	78 - 130
2,3,4,6,7,8-HxCDF	1000	1010		pg/L		101	70 - 156

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-417490/2-A
Matrix: Water
Analysis Batch: 420113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,4,6,7,8-HpCDD			1000	952		pg/L		95	70 - 140		
1,2,3,4,6,7,8-HpCDF			1000	1010		pg/L		101	82 - 122		
1,2,3,4,7,8,9-HpCDF			1000	1020		pg/L		102	78 - 138		
OCDD			2000	1850		pg/L		92	78 - 144		
OCDF			2000	1780		pg/L		89	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*80*		*20 - 175*
13C-2,3,7,8-TCDF	*79*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*77*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*68*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*69*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*92*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*91*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*77*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*76*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*83*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*77*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*79*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*83*		*20 - 186*
13C-OCDD	*100*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*100*		*31 - 191*

Lab Sample ID: LCSD 320-417490/3-A
Matrix: Water
Analysis Batch: 420113

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417490

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			200	214		pg/L		107	67 - 158	2	50
2,3,7,8-TCDF			200	214		pg/L		107	75 - 158	4	50
1,2,3,7,8-PeCDD			1000	968		pg/L		97	70 - 142	0	50
1,2,3,7,8-PeCDF			1000	994		pg/L		99	80 - 134	1	50
2,3,4,7,8-PeCDF			1000	989		pg/L		99	68 - 160	2	50
1,2,3,4,7,8-HxCDD			1000	956		pg/L		96	70 - 164	0	50
1,2,3,6,7,8-HxCDD			1000	938		pg/L		94	76 - 134	2	50
1,2,3,7,8,9-HxCDD			1000	877		pg/L		88	64 - 162	4	50
1,2,3,4,7,8-HxCDF			1000	988		pg/L		99	72 - 134	1	50
1,2,3,6,7,8-HxCDF			1000	999		pg/L		100	84 - 130	1	50
1,2,3,7,8,9-HxCDF			1000	993		pg/L		99	78 - 130	2	50
2,3,4,6,7,8-HxCDF			1000	996		pg/L		100	70 - 156	2	50
1,2,3,4,6,7,8-HpCDD			1000	930		pg/L		93	70 - 140	2	50
1,2,3,4,6,7,8-HpCDF			1000	970		pg/L		97	82 - 122	4	50
1,2,3,4,7,8,9-HpCDF			1000	1020		pg/L		102	78 - 138	0	50
OCDD			2000	1880		pg/L		94	78 - 144	2	50
OCDF			2000	1820		pg/L		91	63 - 170	2	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C-2,3,7,8-TCDD	96		20 - 175
13C-2,3,7,8-TCDF	94		22 - 152
13C-1,2,3,7,8-PeCDD	92		21 - 227
13C-1,2,3,7,8-PeCDF	81		21 - 192
13C-2,3,4,7,8-PeCDF	85		13 - 328
13C-1,2,3,4,7,8-HxCDD	104		21 - 193
13C-1,2,3,6,7,8-HxCDD	101		25 - 163
13C-1,2,3,4,7,8-HxCDF	88		19 - 202
13C-1,2,3,6,7,8-HxCDF	86		21 - 159
13C-1,2,3,7,8,9-HxCDF	94		17 - 205
13C-2,3,4,6,7,8-HxCDF	90		22 - 176
13C-1,2,3,4,6,7,8-HpCDD	96		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	91		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	90		20 - 186
13C-OCDD	112		13 - 199

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
37Cl4-2,3,7,8-TCDD	109		31 - 191

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-565455/1-A
Matrix: Solid
Analysis Batch: 565625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Barium	<0.11		1.0	0.11	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Cadmium	<0.036		0.20	0.036	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Lead	<0.23		0.50	0.23	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/07/20 18:14	10/08/20 09:21	1
Silver	0.178	J	0.50	0.13	mg/Kg		10/07/20 18:14	10/08/20 09:21	1

Lab Sample ID: LCS 500-565455/2-A
Matrix: Solid
Analysis Batch: 565625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.32		mg/Kg		93	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Cadmium	5.00	4.58		mg/Kg		92	80 - 120
Chromium	20.0	18.7		mg/Kg		93	80 - 120
Lead	10.0	9.35		mg/Kg		93	80 - 120
Selenium	10.0	8.73		mg/Kg		87	80 - 120
Silver	5.00	4.49		mg/Kg		90	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565625

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.0		8.95	9.11		mg/Kg	☼	90	75 - 125
Barium	22	V	179	192		mg/Kg	☼	95	75 - 125
Cadmium	<0.035		4.47	3.81		mg/Kg	☼	85	75 - 125
Chromium	18	F1	17.9	29.2	F1	mg/Kg	☼	63	75 - 125
Lead	1.7		8.95	10.5		mg/Kg	☼	98	75 - 125
Selenium	<0.57		8.95	7.32		mg/Kg	☼	82	75 - 125
Silver	<0.13		4.47	3.69		mg/Kg	☼	83	75 - 125

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565625

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.0		10.0	10.1		mg/Kg	☼	90	75 - 125	10	20
Barium	22	V	201	211		mg/Kg	☼	94	75 - 125	9	20
Cadmium	<0.035		5.02	4.19		mg/Kg	☼	83	75 - 125	10	20
Chromium	18	F1	20.1	29.2	F1	mg/Kg	☼	56	75 - 125	0	20
Lead	1.7		10.0	11.5		mg/Kg	☼	97	75 - 125	9	20
Selenium	<0.57		10.0	8.20		mg/Kg	☼	82	75 - 125	11	20
Silver	<0.13		5.02	3.93		mg/Kg	☼	78	75 - 125	6	20

Lab Sample ID: 500-188477-4 DU
Matrix: Solid
Analysis Batch: 565625

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565455

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	1.0		1.24		mg/Kg	☼	19	20
Barium	22	V	21.3		mg/Kg	☼	4	20
Cadmium	<0.035		<0.037		mg/Kg	☼	NC	20
Chromium	18	F1	15.4		mg/Kg	☼	15	20
Lead	1.7		1.91		mg/Kg	☼	9	20
Selenium	<0.57		<0.60		mg/Kg	☼	NC	20
Silver	<0.13		<0.13		mg/Kg	☼	NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-564103/1-A
Matrix: Water
Analysis Batch: 564465

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 564103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/30/20 07:23	10/01/20 11:00	1
Barium	<0.73		2.5	0.73	ug/L		09/30/20 07:23	10/01/20 11:00	1
Cadmium	<0.17		0.50	0.17	ug/L		09/30/20 07:23	10/01/20 11:00	1
Chromium	<1.1		5.0	1.1	ug/L		09/30/20 07:23	10/01/20 11:00	1
Lead	<0.19		0.50	0.19	ug/L		09/30/20 07:23	10/01/20 11:00	1
Selenium	<0.98		2.5	0.98	ug/L		09/30/20 07:23	10/01/20 11:00	1
Silver	<0.12		0.50	0.12	ug/L		09/30/20 07:23	10/01/20 11:00	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-564103/2-A
Matrix: Water
Analysis Batch: 564465

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 564103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	103		ug/L		103	80 - 120
Barium	500	531		ug/L		106	80 - 120
Cadmium	50.0	52.0		ug/L		104	80 - 120
Chromium	200	214		ug/L		107	80 - 120
Lead	100	105		ug/L		105	80 - 120
Selenium	100	106		ug/L		106	80 - 120
Silver	50.0	51.3		ug/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-565095/12-A
Matrix: Water
Analysis Batch: 565374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/06/20 09:20	10/07/20 07:49	1

Lab Sample ID: LCS 500-565095/13-A
Matrix: Water
Analysis Batch: 565374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.22		ug/L		111	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-565792/12-A
Matrix: Solid
Analysis Batch: 566049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/09/20 13:40	10/12/20 09:21	1

Lab Sample ID: LCS 500-565792/13-A
Matrix: Solid
Analysis Batch: 566049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.170		mg/Kg		102	80 - 120

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 566049

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.0053		0.0804	0.0927		mg/Kg	☼	115	75 - 125

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 566049

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.0053		0.0803	0.0918		mg/Kg	☼	114	75 - 125	1	20

Lab Sample ID: 500-188477-4 DU
Matrix: Solid
Analysis Batch: 566049

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565792

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.0053		<0.0053		mg/Kg	☼	NC	20

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 500-565086/1-A
Matrix: Water
Analysis Batch: 565408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/06/20 06:30	10/07/20 10:42	1

Lab Sample ID: LCS 500-565086/2-A
Matrix: Water
Analysis Batch: 565408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0935		mg/L		94	90 - 110

Lab Sample ID: MB 500-565087/1-A
Matrix: Solid
Analysis Batch: 565653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.41		0.50	0.41	mg/Kg		10/06/20 11:45	10/08/20 13:58	1

Lab Sample ID: LCS 500-565087/2-A
Matrix: Solid
Analysis Batch: 565653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	10.0	9.36		mg/Kg		94	90 - 110

Lab Sample ID: 500-188477-4 MS
Matrix: Solid
Analysis Batch: 565653

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.52		10.0	9.31		mg/Kg	☼	88	75 - 125

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 500-188477-4 MSD
Matrix: Solid
Analysis Batch: 565653

Client Sample ID: SB-03 (24-27.5)
Prep Type: Total/NA
Prep Batch: 565087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.52		9.79	9.20		mg/Kg	☼	89	75 - 125	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: 500-188477-1 DU
Matrix: Solid
Analysis Batch: 565151

Client Sample ID: SB-01 (0-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.0			9.6		%				6	20
Percent Solids	91.0			90.4		%				0.6	20

Method: SM 4500 H+ B - pH

Lab Sample ID: 500-188477-6 DU
Matrix: Water
Analysis Batch: 564834

Client Sample ID: TW-02 (092720)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.7	HF		6.8		SU				1	

Lab Sample ID: 500-188477-7 DU
Matrix: Water
Analysis Batch: 564834

Client Sample ID: TW-01 (092720)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.7	HF		6.8		SU				1	

Lab Sample ID: 500-188477-8 DU
Matrix: Water
Analysis Batch: 564834

Client Sample ID: DUP-01 (092720)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.7	HF		6.8		SU				2	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (0-4)

Lab Sample ID: 500-188477-1

Date Collected: 09/26/20 10:40

Matrix: Solid

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	565299	10/06/20 19:16	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	565151	10/06/20 13:47	LWN	TAL CHI

Client Sample ID: SB-01 (0-4)

Lab Sample ID: 500-188477-1

Date Collected: 09/26/20 10:40

Matrix: Solid

Date Received: 09/29/20 09:45

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			564550	09/26/20 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	564990	10/06/20 05:11	PMF	TAL CHI
Total/NA	Prep	3541			565687	10/08/20 21:03	ACK	TAL CHI
Total/NA	Analysis	8270D		5	565757	10/09/20 16:45	AJD	TAL CHI
Total/NA	Prep	WI GRO			564550	09/26/20 10:40	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	564741	10/03/20 17:35	WRE	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8081B		5	566153	10/12/20 23:25	SS	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8082A		1	565879	10/09/20 23:00	PJ1	TAL CHI
Total/NA	Prep	8151A			565274	10/07/20 07:34	CLL	TAL CHI
Total/NA	Analysis	8151A		10	565743	10/09/20 13:30	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 12:45	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			417456	10/01/20 04:48	FC	TAL SAC
Total/NA	Analysis	1613B		1	420643	10/10/20 20:03	AS	TAL SAC
Total/NA	Prep	3050B			565455	10/07/20 18:14	BDE	TAL CHI
Total/NA	Analysis	6010C		1	565625	10/08/20 09:56	JEF	TAL CHI
Total/NA	Prep	7471B			565792	10/09/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566049	10/12/20 09:35	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565087	10/06/20 11:45	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565653	10/08/20 14:20	PFK	TAL CHI

Client Sample ID: SB-01 (28-31)

Lab Sample ID: 500-188477-2

Date Collected: 09/26/20 11:15

Matrix: Solid

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	565299	10/06/20 19:18	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	565151	10/06/20 13:47	LWN	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-01 (28-31)

Date Collected: 09/26/20 11:15
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-2

Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			564550	09/26/20 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	564990	10/06/20 05:38	PMF	TAL CHI
Total/NA	Prep	3541			565687	10/08/20 21:03	ACK	TAL CHI
Total/NA	Analysis	8270D		1	565757	10/09/20 11:52	AJD	TAL CHI
Total/NA	Prep	WI GRO			564550	09/26/20 11:15	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	564741	10/03/20 18:10	WRE	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8081B		1	565875	10/10/20 07:36	SS	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8082A		1	565879	10/09/20 23:15	PJ1	TAL CHI
Total/NA	Prep	8151A			565274	10/07/20 07:34	CLL	TAL CHI
Total/NA	Analysis	8151A		10	565743	10/09/20 13:49	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 13:12	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			417456	10/01/20 04:48	FC	TAL SAC
Total/NA	Analysis	1613B		1	420643	10/10/20 20:50	AS	TAL SAC
Total/NA	Prep	3050B			565455	10/07/20 18:14	BDE	TAL CHI
Total/NA	Analysis	6010C		1	565625	10/08/20 09:59	JEF	TAL CHI
Total/NA	Prep	7471B			565792	10/09/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566049	10/12/20 09:37	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565087	10/06/20 11:45	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565653	10/08/20 14:21	PFK	TAL CHI

Client Sample ID: SB-03 (0-4)

Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	565299	10/06/20 19:21	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	565151	10/06/20 13:47	LWN	TAL CHI

Client Sample ID: SB-03 (0-4)

Date Collected: 09/26/20 12:30
Date Received: 09/29/20 09:45

Lab Sample ID: 500-188477-3

Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			564550	09/26/20 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	564990	10/06/20 06:04	PMF	TAL CHI
Total/NA	Prep	3541			565687	10/08/20 21:03	ACK	TAL CHI
Total/NA	Analysis	8270D		1	565757	10/09/20 17:09	AJD	TAL CHI
Total/NA	Prep	WI GRO			564550	09/26/20 12:30	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	564741	10/03/20 18:45	WRE	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8081B		1	565875	10/10/20 07:56	SS	TAL CHI

Client Sample ID: SB-03 (0-4)

Lab Sample ID: 500-188477-3

Date Collected: 09/26/20 12:30

Matrix: Solid

Date Received: 09/29/20 09:45

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8082A		1	565879	10/09/20 23:31	PJ1	TAL CHI
Total/NA	Prep	8151A			565274	10/07/20 07:34	CLL	TAL CHI
Total/NA	Analysis	8151A		10	565743	10/09/20 14:09	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 13:38	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			417456	10/01/20 04:48	FC	TAL SAC
Total/NA	Analysis	1613B		1	420643	10/10/20 21:38	AS	TAL SAC
Total/NA	Prep	3050B			565455	10/07/20 18:14	BDE	TAL CHI
Total/NA	Analysis	6010C		1	565625	10/08/20 10:09	JEF	TAL CHI
Total/NA	Prep	7471B			565792	10/09/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566049	10/12/20 09:39	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565087	10/06/20 11:45	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565653	10/08/20 14:22	PFK	TAL CHI

Client Sample ID: SB-03 (24-27.5)

Lab Sample ID: 500-188477-4

Date Collected: 09/26/20 13:00

Matrix: Solid

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	565299	10/06/20 19:23	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	565151	10/06/20 13:47	LWN	TAL CHI

Client Sample ID: SB-03 (24-27.5)

Lab Sample ID: 500-188477-4

Date Collected: 09/26/20 13:00

Matrix: Solid

Date Received: 09/29/20 09:45

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			564550	09/26/20 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	564990	10/06/20 06:31	PMF	TAL CHI
Total/NA	Prep	3541			565687	10/08/20 21:03	ACK	TAL CHI
Total/NA	Analysis	8270D		1	565757	10/09/20 11:27	AJD	TAL CHI
Total/NA	Prep	WI GRO			564550	09/26/20 13:00	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	564741	10/03/20 19:19	WRE	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8081B		1	565875	10/10/20 08:17	SS	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8082A		1	565879	10/09/20 23:46	PJ1	TAL CHI
Total/NA	Prep	8151A			565274	10/07/20 07:34	CLL	TAL CHI
Total/NA	Analysis	8151A		10	565743	10/09/20 15:06	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 14:04	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			417456	10/01/20 04:48	FC	TAL SAC
Total/NA	Analysis	1613B		1	420643	10/10/20 22:26	AS	TAL SAC

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: SB-03 (24-27.5)

Lab Sample ID: 500-188477-4
Date Collected: 09/26/20 13:00
Matrix: Solid
Date Received: 09/29/20 09:45
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			565455	10/07/20 18:14	BDE	TAL CHI
Total/NA	Analysis	6010C		1	565625	10/08/20 10:12	JEF	TAL CHI
Total/NA	Prep	7471B			565792	10/09/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566049	10/12/20 09:40	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565087	10/06/20 11:45	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565653	10/08/20 14:23	PFK	TAL CHI

Client Sample ID: DUP-01 (092620)

Lab Sample ID: 500-188477-5
Date Collected: 09/26/20 00:00
Matrix: Solid
Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	565299	10/06/20 19:28	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	565151	10/06/20 13:47	LWN	TAL CHI

Client Sample ID: DUP-01 (092620)

Lab Sample ID: 500-188477-5
Date Collected: 09/26/20 00:00
Matrix: Solid
Date Received: 09/29/20 09:45
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			564550	09/26/20 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	564990	10/06/20 06:58	PMF	TAL CHI
Total/NA	Prep	3541			565687	10/08/20 21:03	ACK	TAL CHI
Total/NA	Analysis	8270D		1	565757	10/09/20 12:17	AJD	TAL CHI
Total/NA	Prep	WI GRO			564550	09/26/20 00:00	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		1	564741	10/03/20 21:39	WRE	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8081B		1	565875	10/10/20 09:18	SS	TAL CHI
Total/NA	Prep	3541			565715	10/09/20 06:43	BSO	TAL CHI
Total/NA	Analysis	8082A		1	565879	10/10/20 00:32	PJ1	TAL CHI
Total/NA	Prep	8151A			565274	10/07/20 07:34	CLL	TAL CHI
Total/NA	Analysis	8151A		10	565743	10/09/20 16:04	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 15:23	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			417456	10/01/20 04:48	FC	TAL SAC
Total/NA	Analysis	1613B		1	420643	10/11/20 00:50	AS	TAL SAC
Total/NA	Prep	3050B			565455	10/07/20 18:14	BDE	TAL CHI
Total/NA	Analysis	6010C		1	565625	10/08/20 10:28	JEF	TAL CHI
Total/NA	Prep	7471B			565792	10/09/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566049	10/12/20 09:47	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565087	10/06/20 11:45	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565653	10/08/20 14:25	PFK	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-02 (092720)

Lab Sample ID: 500-188477-6

Date Collected: 09/27/20 07:15

Matrix: Water

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	564989	10/06/20 02:57	EMA	TAL CHI
Total/NA	Prep	3510C			564347	10/01/20 06:31	CMC	TAL CHI
Total/NA	Analysis	8270D		1	564526	10/02/20 05:39	NRJ	TAL CHI
Total/NA	Analysis	WI-GRO		1	564742	10/03/20 23:58	WRE	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8081B		1	564712	10/02/20 22:01	SS	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8082A		1	564714	10/03/20 00:03	SS	TAL CHI
Total/NA	Prep	8151A			564169	09/30/20 10:10	CMC	TAL CHI
Total/NA	Analysis	8151A		1	564328	10/01/20 14:30	JBJ	TAL CHI
Total/NA	Prep	3510C			564670	10/02/20 13:24	CLL	TAL CHI
Total/NA	Analysis	WI-DRO		1	564733	10/03/20 00:17	SS	TAL CHI
Total/NA	Prep	1613B			417490	10/01/20 08:42	RDR	TAL SAC
Total/NA	Analysis	1613B		1	420113	10/08/20 14:19	KSS	TAL SAC
Total Recoverable	Prep	3005A			564103	09/30/20 07:23	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	564465	10/01/20 11:51	FXG	TAL CHI
Total/NA	Prep	7470A			565095	10/06/20 09:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	565374	10/07/20 08:38	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565086	10/06/20 06:30	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565408	10/07/20 10:56	PFK	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	564834	10/02/20 14:05	SMO	TAL CHI

Client Sample ID: TW-01 (092720)

Lab Sample ID: 500-188477-7

Date Collected: 09/27/20 10:05

Matrix: Water

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	564989	10/06/20 03:24	EMA	TAL CHI
Total/NA	Prep	3510C			564347	10/01/20 06:31	CMC	TAL CHI
Total/NA	Analysis	8270D		1	564526	10/02/20 06:07	NRJ	TAL CHI
Total/NA	Analysis	WI-GRO		1	564742	10/04/20 00:33	WRE	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8081B		1	564712	10/02/20 22:20	SS	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8082A		1	564714	10/03/20 00:19	SS	TAL CHI
Total/NA	Prep	8151A			564169	09/30/20 10:10	CMC	TAL CHI
Total/NA	Analysis	8151A		1	564328	10/01/20 14:50	JBJ	TAL CHI
Total/NA	Prep	3510C			564670	10/02/20 13:24	CLL	TAL CHI
Total/NA	Analysis	WI-DRO		1	564733	10/03/20 00:53	SS	TAL CHI
Total/NA	Prep	1613B			417490	10/01/20 08:42	RDR	TAL SAC
Total/NA	Analysis	1613B		1	420113	10/08/20 15:06	KSS	TAL SAC
Total Recoverable	Prep	3005A			564103	09/30/20 07:23	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	564465	10/01/20 11:54	FXG	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Client Sample ID: TW-01 (092720)

Lab Sample ID: 500-188477-7

Date Collected: 09/27/20 10:05

Matrix: Water

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			565095	10/06/20 09:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	565374	10/07/20 08:40	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565086	10/06/20 06:30	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565408	10/07/20 10:58	PFK	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	564834	10/02/20 14:10	SMO	TAL CHI

Client Sample ID: DUP-01 (092720)

Lab Sample ID: 500-188477-8

Date Collected: 09/27/20 00:00

Matrix: Water

Date Received: 09/29/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	564989	10/06/20 03:51	EMA	TAL CHI
Total/NA	Prep	3510C			564347	10/01/20 06:31	CMC	TAL CHI
Total/NA	Analysis	8270D		1	564526	10/02/20 06:35	NRJ	TAL CHI
Total/NA	Analysis	WI-GRO		1	564742	10/04/20 01:08	WRE	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8081B		1	564712	10/02/20 22:39	SS	TAL CHI
Total/NA	Prep	3510C			564345	10/01/20 06:15	CMC	TAL CHI
Total/NA	Analysis	8082A		1	564714	10/03/20 00:35	SS	TAL CHI
Total/NA	Prep	8151A			564169	09/30/20 10:10	CMC	TAL CHI
Total/NA	Analysis	8151A		1	564328	10/01/20 15:09	JBJ	TAL CHI
Total/NA	Prep	3510C			564670	10/02/20 13:24	CLL	TAL CHI
Total/NA	Analysis	WI-DRO		1	564733	10/03/20 01:28	SS	TAL CHI
Total/NA	Prep	1613B			417490	10/01/20 08:42	RDR	TAL SAC
Total/NA	Analysis	1613B		1	420113	10/08/20 15:54	KSS	TAL SAC
Total Recoverable	Prep	3005A			564103	09/30/20 07:23	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	564465	10/01/20 11:58	FXG	TAL CHI
Total/NA	Prep	7470A			565095	10/06/20 09:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	565374	10/07/20 08:42	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			565086	10/06/20 06:30	PFK	TAL CHI
Total/NA	Analysis	420.4		1	565408	10/07/20 10:59	PFK	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	564834	10/02/20 14:15	SMO	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: L. Reuteman	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85358-38645.3
Client Contact: Trenna Seilheimer	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page ~~3 of 4~~ 1 of 1
Company: ARCADIS U S , Inc.				Job #: 500-188477
Address: 126 North Jefferson Street Suite 400	Due Date Requested:			
City: Milwaukee	TAT Requested (days): 10 Days			
State, Zip: WI, 53202	PO #: 30052761			
Phone: 414-276-7742(Tel)	WO #:			
Email: trenna.seilheimer@arcadis.com	Project #: 50018062			
Project Name: 3M Wausau, WI 30052761	SSOW#:			
Site:				

500-188477 COC

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B - Dioxins and Furans (HRGC/HRMS)	WI_DRO - WI DRO	420.4, 6010C, 7471B, 8081B, 8082A, 8151A, 8270D, 9045D, Moisture	WI_GRO - WI GRO	8260B - VOC	8081B, 8082A, 8270D	420.4 - Phenolics, Total Recoverable	WI_DRO - WI DRO	8260B, WI_GRO	8151A - Herbicides (GC)	SM4500_H+ - pH	6020A, 7470A	Total Number of containers	Special Instructions/Note:
	Preservation Code:							N	N	N	N	N	N	S	A	A	N	N	D		
1	SB-01 (0-4)	9/26/20	1040	C	Solid	N	N	X	X	X	X	X								5	(LP)
2	SB-01 (28-31)		1115		Solid															5	
3	SB-03 (0-4)		1230		Solid															5	
4	SB-03 (24-27.5)		1300		Solid															10	
5	DUP-01 (092620)		—		Solid															5	
6	TW-02 (092720)	9/27/20	715	G	Water								X	X	X	X	X	X	X	21	
7	TW-01 (092720)		1005		Water															21	
8	DUP-01 (092720)		—		Water															21	
					Water																
					Water																
					Water																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

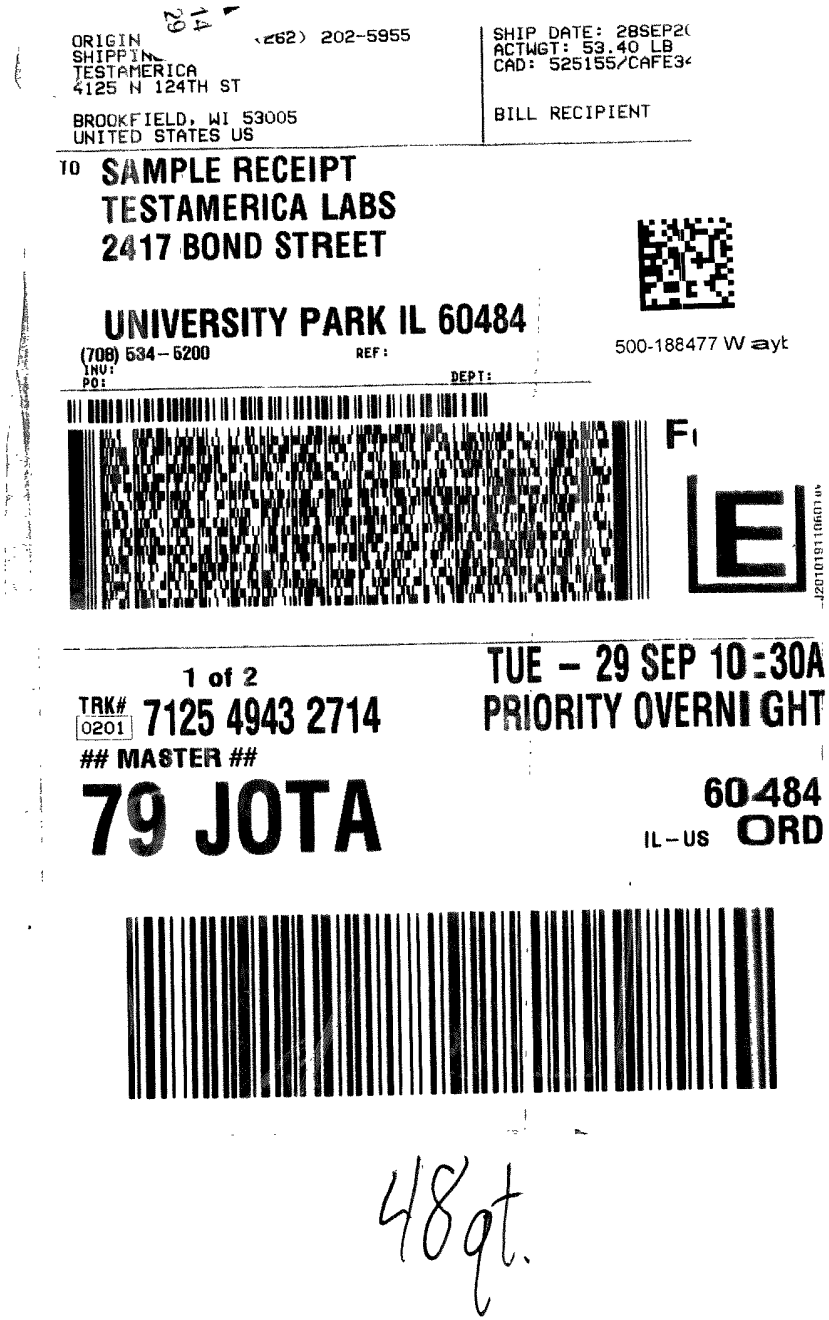
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 9/28/20 1400	Company: Arcadis	Received by: Date/Time: 9-28-20 1400 Company: TA
Relinquished by:	Date/Time: 9-28-20 1700	Company: TA	Received by: Date/Time: 9/29/20 0945 Company: TA-LHT
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 5.3, 6.0, 4.8

Ver: 06/08/2019

10/13/2020


ORIGIN (262) 202-5955
SHIPPIN
TESTAMERICA
4125 N 124TH ST

BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 28SEP2(
ACTWGT: 53.40 LB
CAD: 525155/CAFE3(

BILL RECIPIENT

TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-6200 REF:
INV:
PO: DEPT:

500-188477 W ayb

1 of 2
TRK# 0201 7125 4943 2714
MASTER
79 JOTA

TUE - 29 SEP 10:30A
PRIORITY OVERNI GHT

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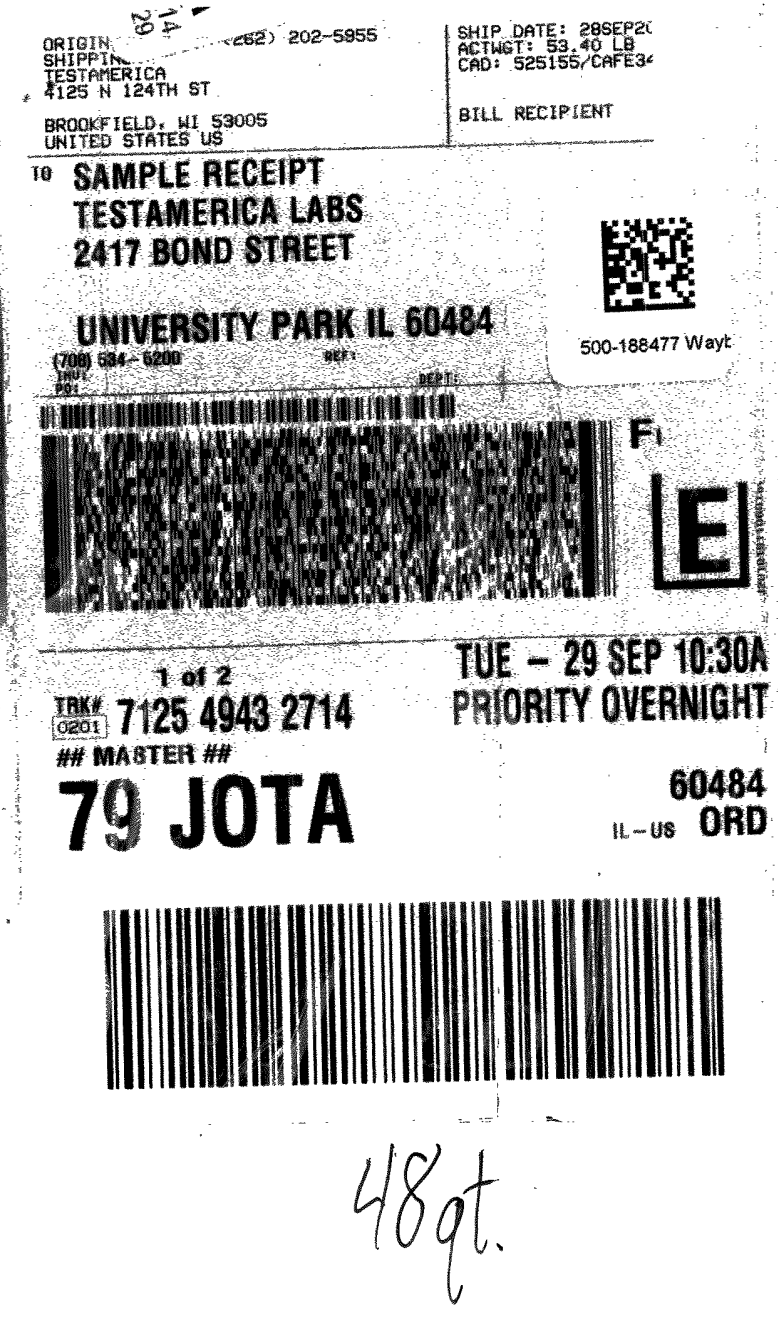
48qt.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SHIPPIN
(262) 202-5955
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 28SEP2
ACTWGT: 53.40 LB
CAD: 525155/CAFE3
BILL RECIPIENT
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
500-188477 Wayb
FedEx
Express
1 of 2
TRK# 0201 7125 4943 2714
TUE - 29 SEP 10:30A
PRIORITY OVERNIGHT
MASTER
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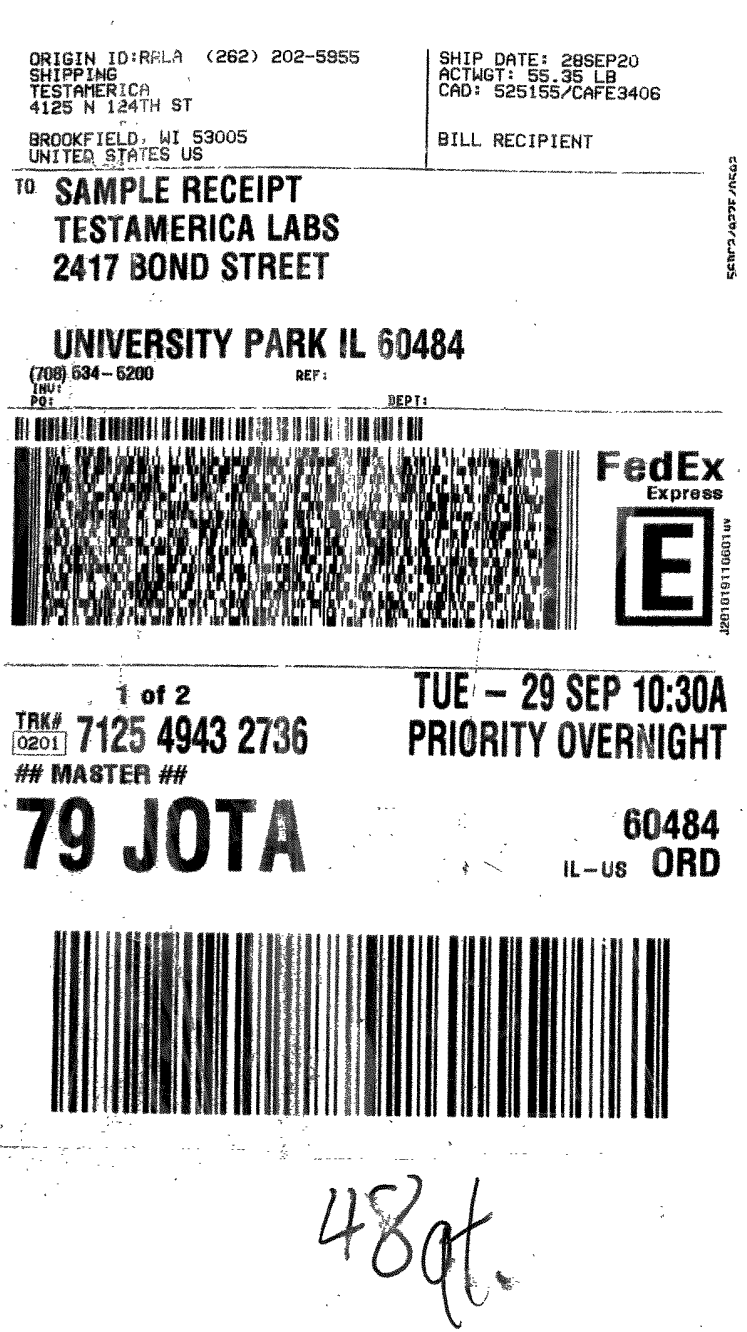
48qt.


ORIGIN ID:RALA (262) 202-5955
SHIPPING
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 28SEP20
ACTWGT: 55.35 LB
CAD: 525155/CAFE3406
BILL RECIPIENT
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
FedEx
Express
1 of 2
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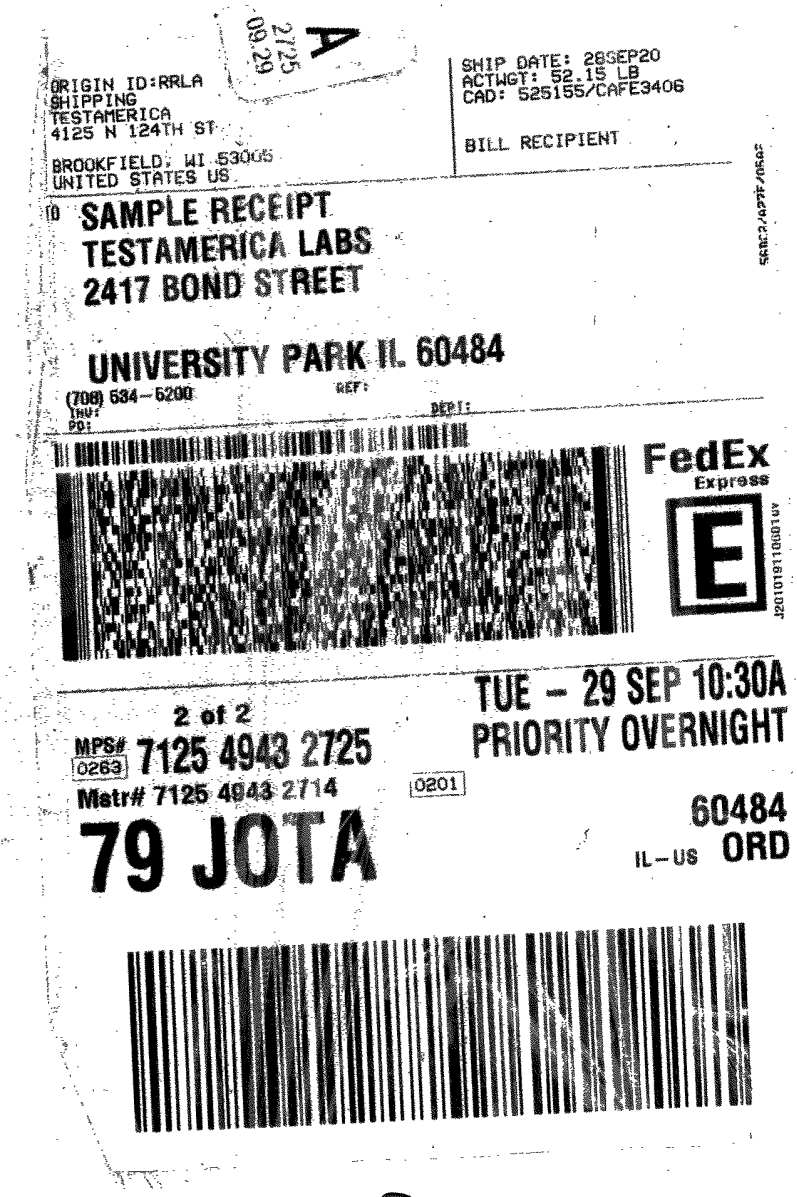
60484
IL-US ORD
48qt.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2725
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TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
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ACTWGT: 52.15 LB
CAD: 525155/CAFE3406
BILL RECIPIENT
SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
DEPT:
FedEx
Express
TUE - 29 SEP 10:30A
PRIORITY OVERNIGHT
2 of 2
MPS# 7125 4943 2725
0263
Mstr# 7125 4943 2714
0201
79 JOTA
60484
IL-US ORD

48 qt.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-140267.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin		Job #: 500-188477-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/9/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 3M Wausau, WI 30052761	Project #: 50018062			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Dioxins and Furans (HRGC/HRMS)	1613B/1613B_Sox_Sep_P Dioxins and Furans (HRGC/HRMS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB-01 (0-4) (500-188477-1)	9/26/20	10:40 Central		Solid			X		1	
SB-01 (28-31) (500-188477-2)	9/26/20	11:15 Central		Solid			X		1	
SB-03 (0-4) (500-188477-3)	9/26/20	12:30 Central		Solid			X		1	
SB-03 (24-27.5) (500-188477-4)	9/26/20	13:00 Central		Solid			X		1	
SB-03 (24-27.5) (500-188477-4MS)	9/26/20	13:00 Central	MS	Solid			X		1	
SB-03 (24-27.5) (500-188477-4MSD)	9/26/20	13:00 Central	MSD	Solid			X		1	
DUP-01 (092620) (500-188477-5)	9/26/20	Central		Solid			X		1	
TW-02 (092720) (500-188477-6)	9/27/20	07:15 Central		Water				X	2	
TW-01 (092720) (500-188477-7)	9/27/20	10:05 Central		Water				X	2	

0 SH 9/29/20

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Stephanie Hernandez	9/29/20 1630	TA-OH1		09/30/20 1010	eta Soe
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 1357974	Cooler Temperature(s) °C and Other Remarks: 1.3

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-140267.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin		Job #: 500-188477-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/9/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 3M Wausau, WI 30052761	Project #: 50018062			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Dioxins and Furans (HRGC/HRMS)	1613B/1613B_Sox_Sep_P Dioxins and Furans (HRGC/HRMS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
DUP-01 (092720) (500-188477-8)	9/27/20	Central		Water				X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez	9/29/20 1630	TA-CHI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1357974	Cooler Temperature(s) °C and Other Remarks: 1.3

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-188477-1

Login Number: 188477
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,6.0,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-188477-1

Login Number: 188477
List Number: 2
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento
List Creation: 09/30/20 12:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1357974
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ob: 1357974 corr:
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

Sacramento Sample Receiving Notes

500-188477 Field Sheet

Job: _____

Tracking # : 1893 4449 5944

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: L-01 Corr. Factor: (+ / -) 0 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 1357974

Cooler ID: –

Temp Observed: 1.3 °C Corrected: 1.3 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐

Initials: MAN Date: 09/30/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: JS Date: 09/30/20

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: JS Date: 09/30/20

Isotope Dilution Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
500-188477-1	SB-01 (0-4)	67	67	70	72	70	100	86	64
500-188477-2	SB-01 (28-31)	75	66	74	76	73	105	88	64
500-188477-3	SB-03 (0-4)	67	62	70	71	68	97	84	61
500-188477-4	SB-03 (24-27.5)	75	68	76	77	74	106	95	66
500-188477-4 MS	SB-03 (24-27.5)	67	64	66	70	66	97	89	62
500-188477-4 MSD	SB-03 (24-27.5)	69	64	70	70	65	90	82	56
500-188477-5	DUP-01 (092620)	72	68	72	75	71	107	92	66
MB 320-417456/1-A	Method Blank	75	71	78	79	79	105	103	70

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (26-123)	HxCF (29-147)	13CHxCF (28-136)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)
500-188477-1	SB-01 (0-4)	67	69	69	70	73	66	59
500-188477-2	SB-01 (28-31)	69	75	70	78	80	72	72
500-188477-3	SB-03 (0-4)	64	70	67	72	74	69	70
500-188477-4	SB-03 (24-27.5)	74	74	75	76	78	71	65
500-188477-4 MS	SB-03 (24-27.5)	68	69	69	71	75	66	61
500-188477-4 MSD	SB-03 (24-27.5)	60	75	65	70	69	71	70
500-188477-5	DUP-01 (092620)	73	72	72	74	79	68	63
MB 320-417456/1-A	Method Blank	76	82	78	83	85	75	68

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-417456/2-A	Lab Control Sample	70	62	71	71	69	93	86	60

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (21-159)	HxCF (17-205)	13CHxCF (22-176)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)
LCS 320-417456/2-A	Lab Control Sample	65	69	66	68	73	64	60

Surrogate Legend

Isotope Dilution Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188477-1

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
500-188477-6	TW-02 (092720)	80	82	79	69	70	89	90	77
500-188477-7	TW-01 (092720)	87	86	81	74	73	99	94	83
500-188477-8	DUP-01 (092720)	84	81	76	71	68	91	90	78
MB 320-417490/1-A	Method Blank	91	81	79	70	69	87	95	71

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (26-123)	HxCF (29-147)	13CHxCF (28-136)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)
500-188477-6	TW-02 (092720)	77	80	77	86	85	85	97
500-188477-7	TW-01 (092720)	83	87	81	91	89	92	103
500-188477-8	DUP-01 (092720)	77	83	77	86	83	84	100
MB 320-417490/1-A	Method Blank	78	74	77	72	70	69	60

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Isotope Dilution Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188477-1
Project/Site: 3M Wausau, WI 30052761

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-417490/2-A	Lab Control Sample	80	79	77	68	69	92	91	77
LCSD 320-417490/3-A	Lab Control Sample Dup	96	94	92	81	85	104	101	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxDF (21-159)	HxCF (17-205)	13CHxCF (22-176)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)	
LCS 320-417490/2-A	Lab Control Sample	76	83	77	84	79	83	100	
LCSD 320-417490/3-A	Lab Control Sample Dup	86	94	90	96	91	90	112	

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-188700-1
Client Project/Site: 3M Wausau, WI 30052761

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Trenna Seilheimer

Sandie Fredrick

Authorized for release by:
10/18/2020 2:48:49 PM

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

Table of Contents

Job ID: 500-188700-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-188700-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2020 9:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 2.9º C.

Receipt Exceptions
Received Dioxin/Furans bottles for sample 7, logged it in.

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

GC/MS Semi VOA
Method 8270D: The laboratory control sample (LCS) for preparation batch 500-564790 and analytical batch 500-564999 recovered outside control limits for the following analytes: Di-n-octyl phthalate and Indeno[1,2,3-cd]pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-566391 and analytical batch 500-566472 had 1 analyte outside control limits: 2-Methylnaphthalene. These results have been reported and qualified.

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

GC VOA
Methods 5035, WI GRO: sample vials have < 8 grams of soil in 10 ml of methanol. SB-05 (0-4) (500-188700-1), SB-05 (29-31.5) (500-188700-2), SB-04 (0-4) (500-188700-3), SB-04 (24-26) (500-188700-4), SB-02 (0-4) (500-188700-5) and SB-02 (24-26) (500-188700-6)

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

GC Semi VOA
Method WI-DRO: The method blank for preparation batch 500-565022 and analytical batch 500-565359 contained WI Diesel Range Organics (C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following Continuing Calibration Verification (CCVIS) was outside control limits: (CCVIS 500-565474/1). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8151A: The continuing calibration verification (CCV) associated with batch 500-565250 recovered above the upper control limit for 2,4-D and Dicamba. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TW-03 (093020) (500-188700-7), (CCV 500-565250/44) and (CCV 500-565250/56).

Method 8081B: The continuing calibration verification (CCV) associated with batch 500-565481 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TW-03 (093020) (500-188700-7).

Method 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-05 (0-4) (500-188700-1). The reagent lot number used was:260001.

Method 8082A: The following sample(s) contained more than one Aroclor with insufficient separation to quantify individually. The PCBs

Job ID: 500-188700-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

present are quantified as the predominant Aroclor PCB-1260: SB-05 (0-4) (500-188700-1).

Method 8081B: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-05 (0-4) (500-188700-1). The reagent lot number used was: 260001.

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: SB-05 (0-4) (500-188700-1). The lower has been reported and qualified in accordance with the laboratory's SOP.

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

Dioxin

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD and/or 13C-1,2,3,7,8,9-HxCDD associated with the following samples run on instrument 10D5 exceeded this criteria: SB-05 (0-4) (500-188700-1), SB-05 (29-31.5) (500-188700-2), TW-03 (093020) (500-188700-7), (CCV 320-421347/2), (LCS 320-418764/2-A), (LCSD 320-418764/3-A) and (MB 320-418764/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: SB-05 (0-4) (500-188700-1) and (CCV 320-422408/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

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

Metals

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

General Chemistry

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

Organic Prep

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

Dioxin Prep

Method 1613B: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for 1613B_Sox_Sep_ preparation/analysis: Sample TW-03 (093020) (500-188700-7) was provided in a wide-mouth amber glass bottle. Nominal volume used is 1.00 L.

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

Client Sample ID: SB-05 (0-4)

Lab Sample ID: 500-188700-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	39		27	16	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	110		54	24	ug/Kg	50	☼	8260B	Total/NA
Acenaphthene	6.9	J	36	6.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	33	J	36	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	45		36	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	170		36	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		36	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzoic acid	490	J	1800	360	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	130		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	240		36	9.8	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	43		36	7.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	470		36	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	22	J	36	5.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	82		36	9.3	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	35	J	73	8.8	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	46	J *	73	6.6	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	37		36	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	200		36	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	360		36	7.2	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate - DL	4600		900	330	ug/Kg	5	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	4.9		3.2	1.6	mg/Kg	50	☼	WI-GRO	Total/NA
cis-Chlordane	2.1		1.8	0.91	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	4.0		1.8	0.30	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	21		1.8	0.95	ug/Kg	1	☼	8081B	Total/NA
Endrin aldehyde	3.4		1.8	0.30	ug/Kg	1	☼	8081B	Total/NA
Heptachlor epoxide	2.9		1.8	0.64	ug/Kg	1	☼	8081B	Total/NA
trans-Chlordane	1.8		1.8	0.47	ug/Kg	1	☼	8081B	Total/NA
PCB-1260	52		18	8.8	ug/Kg	1	☼	8082A	Total/NA
PCB-1260	50		18	8.8	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	52		18	3.5	ug/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	50		18	3.5	ug/Kg	1	☼	8082A	Total/NA
WI Diesel Range Organics (C10-C28)	29	B	4.3	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
2,3,7,8-TCDD	0.35	J q	1.1	0.14	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8-PeCDD	0.99	J q	5.3	0.27	pg/g	1	☼	1613B	Total/NA
2,3,4,7,8-PeCDF	1.6	J	5.3	0.69	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.7	J	5.3	0.12	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDD	9.3		5.3	0.12	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.2	J	5.3	0.11	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.4	J	5.3	0.74	pg/g	1	☼	1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.7	J	5.3	0.73	pg/g	1	☼	1613B	Total/NA
2,3,4,6,7,8-HxCDF	3.0	J	5.3	0.45	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	230	B	5.3	2.6	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	69	B	5.3	0.74	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.1	J	5.3	1.0	pg/g	1	☼	1613B	Total/NA
OCDD	1800	B	11	1.4	pg/g	1	☼	1613B	Total/NA
OCDF	140	B	11	0.15	pg/g	1	☼	1613B	Total/NA
Total TCDD	13	q	1.1	0.14	pg/g	1	☼	1613B	Total/NA
Total TCDF	23	q B	1.1	0.27	pg/g	1	☼	1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-05 (0-4) (Continued)

Lab Sample ID: 500-188700-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total PeCDD	21	q	5.3	0.27	pg/g	1	☼	1613B	Total/NA
Total PeCDF	69		5.3	0.64	pg/g	1	☼	1613B	Total/NA
Total HxCDD	68		5.3	0.12	pg/g	1	☼	1613B	Total/NA
Total HxCDF	96		5.3	0.58	pg/g	1	☼	1613B	Total/NA
Total HpCDD	560	B	5.3	2.6	pg/g	1	☼	1613B	Total/NA
Total HpCDF	180	B	5.3	0.89	pg/g	1	☼	1613B	Total/NA
2,3,7,8-TCDF - RA	0.78	J B	1.1	0.14	pg/g	1	☼	1613B	Total/NA
Arsenic	8.6		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	95		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.45		0.20	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	24		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	87		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.81	J	1.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Silver	0.24	J	0.51	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.061		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA
Phenolics, Total Recoverable	0.66		0.47	0.39	mg/Kg	1	☼	420.4	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: SB-05 (29-31.5)

Lab Sample ID: 500-188700-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	6.2	B	4.2	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
2,3,7,8-TCDF	0.066	J B	1.1	0.022	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8-PeCDF	0.072	J q	5.3	0.038	pg/g	1	☼	1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.20	J q	5.3	0.052	pg/g	1	☼	1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.049	J	5.3	0.035	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	0.11	J B	5.3	0.029	pg/g	1	☼	1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.18	J q B	5.3	0.024	pg/g	1	☼	1613B	Total/NA
OCDD	1.3	J B	11	0.044	pg/g	1	☼	1613B	Total/NA
OCDF	0.52	J B q	11	0.050	pg/g	1	☼	1613B	Total/NA
Total TCDF	0.11	J q B	1.1	0.022	pg/g	1	☼	1613B	Total/NA
Total PeCDF	0.16	J q	5.3	0.038	pg/g	1	☼	1613B	Total/NA
Total HxCDD	0.20	J q	5.3	0.048	pg/g	1	☼	1613B	Total/NA
Total HpCDD	0.28	J B q	5.3	0.029	pg/g	1	☼	1613B	Total/NA
Total HpCDF	0.18	J B q	5.3	0.030	pg/g	1	☼	1613B	Total/NA
Arsenic	1.7		1.0	0.34	mg/Kg	1	☼	6010C	Total/NA
Barium	56		1.0	0.11	mg/Kg	1	☼	6010C	Total/NA
Chromium	23		1.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Lead	3.7		0.50	0.23	mg/Kg	1	☼	6010C	Total/NA
Silver	0.34	J	0.50	0.13	mg/Kg	1	☼	6010C	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: SB-04 (0-4)

Lab Sample ID: 500-188700-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	48	B	27	16	ug/Kg	50	☼	8260B	Total/NA
Toluene	130		27	16	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	57	J	110	38	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	150		53	23	ug/Kg	50	☼	8260B	Total/NA
Acenaphthylene	27	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	39		35	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	140		35	4.8	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-04 (0-4) (Continued)

Lab Sample ID: 500-188700-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	150		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	320		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzoic acid	1500	J	1800	350	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	88		35	11	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	930		180	65	ug/Kg	1	☼	8270D	Total/NA
Chrysene	240		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	46		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	370		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	19	J	35	5.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	75		35	9.2	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	58	J	72	8.7	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	80	*	72	6.6	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	51		35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	310		35	7.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	55		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	95		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.38		0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	24		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	48		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.0	J	1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Silver	0.19	J	0.53	0.14	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.029		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04 (24-26)

Lab Sample ID: 500-188700-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.63	J	0.88	0.30	mg/Kg	1	☼	6010C	Total/NA
Barium	12		0.88	0.10	mg/Kg	1	☼	6010C	Total/NA
Chromium	6.9		0.88	0.44	mg/Kg	1	☼	6010C	Total/NA
Lead	1.1		0.44	0.20	mg/Kg	1	☼	6010C	Total/NA
Silver	0.16	J	0.44	0.11	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB-02 (0-4)

Lab Sample ID: 500-188700-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130	B	26	15	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	140		26	19	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	98	J	110	41	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	46	J	110	41	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	140		110	44	ug/Kg	50	☼	8260B	Total/NA
Toluene	560		26	16	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	210		110	38	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	56	J	110	40	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	780		53	23	ug/Kg	50	☼	8260B	Total/NA
Acenaphthene	16	J	35	6.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	29	J	35	4.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	68		35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	280		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		35	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	370		35	7.6	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-02 (0-4) (Continued)

Lab Sample ID: 500-188700-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	120		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	110		35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	320		35	9.6	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	52		35	6.8	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	49	J	180	41	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	400		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	27	J	35	4.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	81		35	9.1	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	120		71	8.6	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	160	*	71	6.5	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	170		35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	270		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	450		35	7.0	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.3		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	120		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.76		0.20	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	69		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	41		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.94	J	1.0	0.60	mg/Kg	1	☼	6010C	Total/NA
Silver	0.34	J	0.51	0.13	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.021		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-02 (24-26)

Lab Sample ID: 500-188700-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	32	B	22	13	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	36		22	16	ug/Kg	50	☼	8260B	Total/NA
Toluene	120		22	13	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene	47	J	88	32	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	170		44	19	ug/Kg	50	☼	8260B	Total/NA
Benzo[a]anthracene	18	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	34	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	14	J	34	7.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	33	J	34	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	11	J	34	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	J	34	9.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	20	J	34	6.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	16	J	34	4.8	ug/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	87		69	8.3	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	110	*	69	6.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	96		34	5.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	48		34	4.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	21	J	34	6.8	ug/Kg	1	☼	8270D	Total/NA
Arsenic	1.1		0.90	0.31	mg/Kg	1	☼	6010C	Total/NA
Barium	32		0.90	0.10	mg/Kg	1	☼	6010C	Total/NA
Chromium	20		0.90	0.45	mg/Kg	1	☼	6010C	Total/NA
Lead	4.2		0.45	0.21	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.68	J	0.90	0.53	mg/Kg	1	☼	6010C	Total/NA
Silver	0.22	J	0.45	0.12	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)

Lab Sample ID: 500-188700-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.8	J B q	12	0.45	pg/L	1		1613B	Total/NA
2,3,7,8-TCDF	5.3	J B	12	0.30	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.9	J B q	59	0.47	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.84	J B q	59	0.35	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	1.5	J B q	59	0.39	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.92	J B q	59	0.25	pg/L	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.80	J B q	59	0.39	pg/L	1		1613B	Total/NA
OCDD	7.3	J B	120	0.68	pg/L	1		1613B	Total/NA
OCDF	3.1	J B q	120	0.74	pg/L	1		1613B	Total/NA
Total TCDD	8.3	J B q	12	0.45	pg/L	1		1613B	Total/NA
Total TCDF	9.9	J B q	12	0.30	pg/L	1		1613B	Total/NA
Total HxCDD	1.9	J B q	59	0.43	pg/L	1		1613B	Total/NA
Total HxCDF	0.84	J B q	59	0.50	pg/L	1		1613B	Total/NA
Total HpCDD	3.1	J B q	59	0.39	pg/L	1		1613B	Total/NA
Total HpCDF	1.7	J B q	59	0.32	pg/L	1		1613B	Total/NA
Arsenic	0.32	J	1.0	0.23	ug/L	1		6020A	Total Recoverable
Barium	160		2.5	0.73	ug/L	1		6020A	Total Recoverable
Lead	0.91		0.50	0.19	ug/L	1		6020A	Total Recoverable
pH	7.2	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-188700-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8081B	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
8151A	Herbicides (GC)	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	TAL SAC
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
420.4	Phenolics, Total Recoverable	MCAWW	TAL CHI
9045D	pH	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 4500 H+ B	pH	SM	TAL CHI
1613B	Separatory Funnel (L/L) Extraction with Soxhlet Extraction of Dioxin and Furans	EPA	TAL SAC
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
8151A	Extraction (Herbicides)	SW846	TAL CHI
Distill/Phenol	Distillation, Phenolics	None	TAL CHI
HRMS-Sox	Soxhlet Extraction	EPA	TAL SAC
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-188700-1	SB-05 (0-4)	Solid	09/30/20 07:25	10/02/20 09:35	
500-188700-2	SB-05 (29-31.5)	Solid	09/30/20 08:55	10/02/20 09:35	
500-188700-3	SB-04 (0-4)	Solid	09/30/20 10:30	10/02/20 09:35	
500-188700-4	SB-04 (24-26)	Solid	09/30/20 11:05	10/02/20 09:35	
500-188700-5	SB-02 (0-4)	Solid	09/30/20 11:40	10/02/20 09:35	
500-188700-6	SB-02 (24-26)	Solid	09/30/20 12:00	10/02/20 09:35	
500-188700-7	TW-03 (093020)	Water	09/30/20 13:50	10/02/20 09:35	
500-188700-8	Trip Blank	Water	09/30/20 00:00	10/02/20 09:35	

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (0-4)
Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1
Matrix: Solid
Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<16		27	16	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Bromobenzene	<38		110	38	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Bromochloromethane	<46		110	46	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Bromodichloromethane	<40		110	40	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Bromoform	<52		110	52	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Bromomethane	<86		320	86	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Carbon tetrachloride	<41		110	41	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Chlorobenzene	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Chloroethane	<54		110	54	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Chloroform	<40		220	40	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Chloromethane	<35		110	35	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
2-Chlorotoluene	<34		110	34	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
4-Chlorotoluene	<38		110	38	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
cis-1,2-Dichloroethene	<44		110	44	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
cis-1,3-Dichloropropene	<45		110	45	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Dibromochloromethane	<53		110	53	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2-Dibromo-3-Chloropropane	<210		540	210	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2-Dibromoethane	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Dibromomethane	<29		110	29	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2-Dichlorobenzene	<36		110	36	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,3-Dichlorobenzene	<43		110	43	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,4-Dichlorobenzene	<39		110	39	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Dichlorodifluoromethane	<73		320	73	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1-Dichloroethane	<44		110	44	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2-Dichloroethane	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1-Dichloroethene	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2-Dichloropropane	<46		110	46	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,3-Dichloropropane	<39		110	39	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
2,2-Dichloropropane	<48		110	48	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1-Dichloropropene	<32		110	32	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Ethylbenzene	<20		27	20	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Hexachlorobutadiene	<48		110	48	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Isopropylbenzene	<41		110	41	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Isopropyl ether	<30		110	30	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Methylene Chloride	<180		540	180	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Methyl tert-butyl ether	<43		110	43	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
n-Butylbenzene	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
N-Propylbenzene	<45		110	45	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
p-Isopropyltoluene	<39		110	39	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
sec-Butylbenzene	<43		110	43	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Styrene	<42		110	42	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
tert-Butylbenzene	<43		110	43	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1,1,2-Tetrachloroethane	<50		110	50	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1,2,2-Tetrachloroethane	<43		110	43	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Tetrachloroethene	<40		110	40	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Toluene	**39**		27	16	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
trans-1,2-Dichloroethene	<38		110	38	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
trans-1,3-Dichloropropene	<39		110	39	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2,3-Trichlorobenzene	<49		110	49	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50

Client Sample ID: SB-05 (0-4)
Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1
Matrix: Solid
Percent Solids: 92.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<37		110	37	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1,1-Trichloroethane	<41		110	41	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,1,2-Trichloroethane	<38		110	38	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Trichloroethene	<18		54	18	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Trichlorofluoromethane	<46		110	46	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2,3-Trichloropropane	<45		220	45	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,2,4-Trimethylbenzene	<39		110	39	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
1,3,5-Trimethylbenzene	<41		110	41	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Vinyl chloride	<28		110	28	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50
Xylenes, Total	**110**		54	24	ug/Kg	☼	09/30/20 07:25	10/13/20 12:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*09/30/20 07:25*	*10/13/20 12:22*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*09/30/20 07:25*	*10/13/20 12:22*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/30/20 07:25*	*10/13/20 12:22*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*09/30/20 07:25*	*10/13/20 12:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**6.9**	**J**	36	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Acenaphthylene	**33**	**J**	36	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Anthracene	**45**		36	6.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzo[a]anthracene	**170**		36	4.8	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzo[a]pyrene	**190**		36	7.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzo[b]fluoranthene	**370**		36	7.8	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzo[g,h,i]perylene	**120**		36	12	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzoic acid	**490**	**J**	1800	360	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzo[k]fluoranthene	**130**		36	11	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Benzyl alcohol	<360		730	360	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Bis(2-chloroethoxy)methane	<37		180	37	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Bis(2-chloroethyl)ether	<54		180	54	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Bromophenyl phenyl ether	<47		180	47	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Butyl benzyl phthalate	<68		180	68	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Carbazole	<90		180	90	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Chloroaniline	<170		730	170	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Chloro-3-methylphenol	<120		360	120	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Chloronaphthalene	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Chlorophenol	<61		180	61	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Chlorophenyl phenyl ether	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Chrysene	**240**		36	9.8	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Dibenz(a,h)anthracene	**43**		36	7.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Dibenzofuran	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
1,2-Dichlorobenzene	<43		180	43	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
1,3-Dichlorobenzene	<41		180	41	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
1,4-Dichlorobenzene	<46		180	46	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
3,3'-Dichlorobenzidine	<50		180	50	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4-Dichlorophenol	<85		360	85	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Diethyl phthalate	<61		180	61	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4-Dimethylphenol	<140		360	140	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Dimethyl phthalate	<47		180	47	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (0-4)
Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1
Matrix: Solid
Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<55		180	55	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4,6-Dinitro-2-methylphenol	<290		730	290	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4-Dinitrophenol	<630		730	630	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4-Dinitrotoluene	<57		180	57	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,6-Dinitrotoluene	<71		180	71	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Di-n-octyl phthalate	<59		180	59	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Fluoranthene	**470**		36	6.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Fluorene	**22**	**J**	36	5.1	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Hexachlorobenzene	<8.3		73	8.3	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Hexachlorobutadiene	<57		180	57	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Hexachlorocyclopentadiene	<210		730	210	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Hexachloroethane	<55		180	55	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Indeno[1,2,3-cd]pyrene	**82**		36	9.3	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Isophorone	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
1-Methylnaphthalene	**35**	**J**	73	8.8	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Methylnaphthalene	**46**	**J ***	73	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Methylphenol	<58		180	58	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
3 & 4 Methylphenol	<60		180	60	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Naphthalene	**37**		36	5.5	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Nitroaniline	<48		180	48	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
3-Nitroaniline	<110		360	110	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Nitroaniline	<150		360	150	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Nitrobenzene	<9.0		36	9.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2-Nitrophenol	<85		360	85	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
4-Nitrophenol	<340		730	340	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
N-Nitrosodi-n-propylamine	<44		73	44	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
N-Nitrosodiphenylamine	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,2'-oxybis[1-chloropropane]	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Pentachlorophenol	<580		730	580	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Phenanthrene	**200**		36	5.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Phenol	<80		180	80	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
Pyrene	**360**		36	7.2	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
1,2,4-Trichlorobenzene	<39		180	39	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4,5-Trichlorophenol	<82		360	82	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1
2,4,6-Trichlorophenol	<120		360	120	ug/Kg	☼	10/13/20 21:32	10/14/20 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*10/13/20 21:32*	*10/14/20 18:59*	*1*
2-Fluorophenol (Surr)	*91*		*31 - 166*	*10/13/20 21:32*	*10/14/20 18:59*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*10/13/20 21:32*	*10/14/20 18:59*	*1*
Phenol-d5 (Surr)	*75*		*30 - 153*	*10/13/20 21:32*	*10/14/20 18:59*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*10/13/20 21:32*	*10/14/20 18:59*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*31 - 143*	*10/13/20 21:32*	*10/14/20 18:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**4600**		900	330	ug/Kg	☼	10/13/20 21:32	10/14/20 17:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*	*10/13/20 21:32*	*10/14/20 17:14*	*5*

Client Sample ID: SB-05 (0-4)

Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1

Matrix: Solid
Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*151*		*31 - 166*	*10/13/20 21:32*	*10/14/20 17:14*	*5*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*	*10/13/20 21:32*	*10/14/20 17:14*	*5*
Phenol-d5 (Surr)	*99*		*30 - 153*	*10/13/20 21:32*	*10/14/20 17:14*	*5*
Terphenyl-d14 (Surr)	*66*		*42 - 157*	*10/13/20 21:32*	*10/14/20 17:14*	*5*
2,4,6-Tribromophenol (Surr)	*77*		*31 - 143*	*10/13/20 21:32*	*10/14/20 17:14*	*5*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**4.9**		3.2	1.6	mg/Kg	☼	09/30/20 07:25	10/13/20 20:18	50

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.75		1.8	0.75	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
alpha-BHC	<0.46		1.8	0.46	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
beta-BHC	<0.56		1.8	0.56	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
cis-Chlordane	**2.1**		1.8	0.91	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
4,4'-DDD	<0.36		1.8	0.36	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
4,4'-DDE	**4.0**		1.8	0.30	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
4,4'-DDT	**21**		1.8	0.95	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
delta-BHC	<0.57		1.8	0.57	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Dieldrin	<0.25		1.8	0.25	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endosulfan I	<0.79		1.8	0.79	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endosulfan II	<0.29		1.8	0.29	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endosulfan sulfate	<0.33		1.8	0.33	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endrin	<0.25		1.8	0.25	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endrin aldehyde	**3.4**		1.8	0.30	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Endrin ketone	<0.41		1.8	0.41	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
gamma-BHC (Lindane)	<0.39		1.8	0.39	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Heptachlor	<0.76		1.8	0.76	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Heptachlor epoxide	**2.9**		1.8	0.64	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Methoxychlor	<0.35		9.0	0.35	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
Toxaphene	<7.6		18	7.6	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1
trans-Chlordane	**1.8**		1.8	0.47	ug/Kg	☼	10/13/20 06:56	10/14/20 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*33 - 148*	*10/13/20 06:56*	*10/14/20 14:01*	*1*
Tetrachloro-m-xylene	*109*		*30 - 121*	*10/13/20 06:56*	*10/14/20 14:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.4		18	6.4	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1016	<6.4		18	6.4	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1248	<7.1		18	7.1	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (0-4)
Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1
Matrix: Solid
Percent Solids: 92.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.1		18	7.1	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1260	**52**		18	8.8	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
PCB-1260	**50**		18	8.8	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
Polychlorinated biphenyls, Total	**52**		18	3.5	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1
Polychlorinated biphenyls, Total	**50**		18	3.5	ug/Kg	☼	10/13/20 06:56	10/14/20 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*49 - 129*	*10/13/20 06:56*	*10/14/20 02:22*	*1*
Tetrachloro-m-xylene	*83*		*49 - 129*	*10/13/20 06:56*	*10/14/20 02:22*	*1*
DCB Decachlorobiphenyl	*94*		*37 - 121*	*10/13/20 06:56*	*10/14/20 02:22*	*1*
DCB Decachlorobiphenyl	*92*		*37 - 121*	*10/13/20 06:56*	*10/14/20 02:22*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<100		360	100	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10
2,4-DB	<110		360	110	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10
Dicamba	<75		360	75	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10
Dichlorprop	<98		360	98	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10
Silvex (2,4,5-TP)	<92		360	92	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10
2,4,5-T	<88		360	88	ug/Kg	☼	10/13/20 08:05	10/15/20 14:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*67*		*25 - 120*	*10/13/20 08:05*	*10/15/20 14:28*	*10*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**29**	**B**	4.3	1.7	mg/Kg	☼	10/06/20 05:48	10/07/20 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*66*		*44 - 148*	*10/06/20 05:48*	*10/07/20 15:49*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**0.35**	**J q**	1.1	0.14	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,7,8-PeCDD	**0.99**	**J q**	5.3	0.27	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,7,8-PeCDF	<0.58		5.3	0.58	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
2,3,4,7,8-PeCDF	**1.6**	**J**	5.3	0.69	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,4,7,8-HxCDD	**2.7**	**J**	5.3	0.12	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,6,7,8-HxCDD	**9.3**		5.3	0.12	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,7,8,9-HxCDD	**5.2**	**J**	5.3	0.11	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,4,7,8-HxCDF	**4.4**	**J**	5.3	0.74	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,6,7,8-HxCDF	**3.7**	**J**	5.3	0.73	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,7,8,9-HxCDF	<0.41		5.3	0.41	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
2,3,4,6,7,8-HxCDF	**3.0**	**J**	5.3	0.45	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,4,6,7,8-HpCDD	**230**	**B**	5.3	2.6	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,4,6,7,8-HpCDF	**69**	**B**	5.3	0.74	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
1,2,3,4,7,8,9-HpCDF	**3.1**	**J**	5.3	1.0	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
OCDD	**1800**	**B**	11	1.4	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1

Client Sample ID: SB-05 (0-4)
Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1
Matrix: Solid
Percent Solids: 92.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	140	B	11	0.15	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total TCDD	13	q	1.1	0.14	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total TCDF	23	q B	1.1	0.27	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total PeCDD	21	q	5.3	0.27	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total PeCDF	69		5.3	0.64	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total HxCDD	68		5.3	0.12	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total HxCDF	96		5.3	0.58	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total HpCDD	560	B	5.3	2.6	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1
Total HpCDF	180	B	5.3	0.89	pg/g	☼	10/05/20 07:36	10/13/20 05:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*25 - 164*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-2,3,7,8-TCDF	*104*		*24 - 169*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*25 - 181*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,7,8-PeCDF	*90*		*24 - 185*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-2,3,4,7,8-PeCDF	*88*		*21 - 178*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,4,7,8-HxCDD	*84*		*32 - 141*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*28 - 130*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,4,7,8-HxCDF	*106*		*26 - 152*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,6,7,8-HxCDF	*96*		*26 - 123*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,7,8,9-HxCDF	*102*		*29 - 147*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-2,3,4,6,7,8-HxCDF	*104*		*28 - 136*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*23 - 140*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*112*		*28 - 143*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*101*		*26 - 138*	*10/05/20 07:36*	*10/13/20 05:09*	*1*
13C-OCDD	*101*		*17 - 157*	*10/05/20 07:36*	*10/13/20 05:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*110*		*35 - 197*	*10/05/20 07:36*	*10/13/20 05:09*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.78	J B	1.1	0.14	pg/g	☼	10/05/20 07:36	10/15/20 03:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*92*		*24 - 169*	*10/05/20 07:36*	*10/15/20 03:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*115*		*35 - 197*	*10/05/20 07:36*	*10/15/20 03:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		1.0	0.35	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Barium	95		1.0	0.12	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Cadmium	0.45		0.20	0.037	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Chromium	24		1.0	0.51	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Lead	87		0.51	0.24	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Selenium	0.81	J	1.0	0.60	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1
Silver	0.24	J	0.51	0.13	mg/Kg	☼	10/13/20 18:37	10/14/20 09:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (0-4)

Date Collected: 09/30/20 07:25
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-1

Matrix: Solid
Percent Solids: 92.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.018	0.0059	mg/Kg	☼	10/13/20 13:40	10/14/20 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.66		0.47	0.39	mg/Kg	☼	10/15/20 11:00	10/15/20 17:32	1
pH	7.6		0.2	0.2	SU			10/13/20 17:25	1
Percent Moisture	8.0		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	92.0		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (29-31.5)
Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2
Matrix: Solid
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<13		23	13	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Bromobenzene	<32		90	32	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Bromochloromethane	<39		90	39	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Bromodichloromethane	<34		90	34	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Bromoform	<44		90	44	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Bromomethane	<72		270	72	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Carbon tetrachloride	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Chlorobenzene	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Chloroethane	<45		90	45	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Chloroform	<33		180	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Chloromethane	<29		90	29	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
2-Chlorotoluene	<28		90	28	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
4-Chlorotoluene	<32		90	32	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
cis-1,2-Dichloroethene	<37		90	37	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
cis-1,3-Dichloropropene	<37		90	37	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Dibromochloromethane	<44		90	44	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2-Dibromo-3-Chloropropane	<180		450	180	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2-Dibromoethane	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Dibromomethane	<24		90	24	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2-Dichlorobenzene	<30		90	30	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,3-Dichlorobenzene	<36		90	36	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,4-Dichlorobenzene	<33		90	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Dichlorodifluoromethane	<61		270	61	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1-Dichloroethane	<37		90	37	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2-Dichloroethane	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1-Dichloroethene	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2-Dichloropropane	<39		90	39	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,3-Dichloropropane	<33		90	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
2,2-Dichloropropane	<40		90	40	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1-Dichloropropene	<27		90	27	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Ethylbenzene	<16		23	16	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Hexachlorobutadiene	<40		90	40	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Isopropylbenzene	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Isopropyl ether	<25		90	25	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Methylene Chloride	<150		450	150	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Methyl tert-butyl ether	<36		90	36	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
n-Butylbenzene	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
N-Propylbenzene	<37		90	37	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
p-Isopropyltoluene	<33		90	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
sec-Butylbenzene	<36		90	36	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Styrene	<35		90	35	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
tert-Butylbenzene	<36		90	36	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1,1,2-Tetrachloroethane	<42		90	42	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1,2,2-Tetrachloroethane	<36		90	36	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Tetrachloroethene	<33		90	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Toluene	<13		23	13	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
trans-1,2-Dichloroethene	<32		90	32	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
trans-1,3-Dichloropropene	<33		90	33	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2,3-Trichlorobenzene	<41		90	41	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (29-31.5)
Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2
Matrix: Solid
Percent Solids: 94.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<31		90	31	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1,1-Trichloroethane	<34		90	34	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,1,2-Trichloroethane	<32		90	32	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Trichloroethene	<15		45	15	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Trichlorofluoromethane	<39		90	39	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
1,3,5-Trimethylbenzene	<34		90	34	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Vinyl chloride	<24		90	24	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50
Xylenes, Total	<20		45	20	ug/Kg	☼	09/30/20 08:55	10/13/20 12:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*09/30/20 08:55*	*10/13/20 12:49*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*09/30/20 08:55*	*10/13/20 12:49*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*09/30/20 08:55*	*10/13/20 12:49*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*09/30/20 08:55*	*10/13/20 12:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Acenaphthylene	<4.4		33	4.4	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Anthracene	<5.6		33	5.6	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzo[a]pyrene	<6.5		33	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzoic acid	<330		1700	330	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Benzyl alcohol	<330		670	330	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Bis(2-chloroethoxy)methane	<34		170	34	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Bis(2-chloroethyl)ether	<50		170	50	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Bis(2-ethylhexyl) phthalate	<61		170	61	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Bromophenyl phenyl ether	<44		170	44	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Butyl benzyl phthalate	<63		170	63	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Carbazole	<83		170	83	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Chloroaniline	<160		670	160	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Chloro-3-methylphenol	<110		330	110	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Chloronaphthalene	<37		170	37	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Chlorophenol	<57		170	57	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Chlorophenyl phenyl ether	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Chrysene	<9.1		33	9.1	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Dibenzofuran	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
1,3-Dichlorobenzene	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4-Dichlorophenol	<79		330	79	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Diethyl phthalate	<56		170	56	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4-Dimethylphenol	<130		330	130	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (29-31.5)
Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2
Matrix: Solid
Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Di-n-butyl phthalate	<51		170	51	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4,6-Dinitro-2-methylphenol	<270		670	270	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4-Dinitrophenol	<590		670	590	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4-Dinitrotoluene	<53		170	53	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,6-Dinitrotoluene	<66		170	66	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Di-n-octyl phthalate	<54		170	54	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Fluoranthene	<6.2		33	6.2	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Fluorene	<4.7		33	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Hexachlorobenzene	<7.7		67	7.7	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Hexachlorobutadiene	<52		170	52	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Hexachlorocyclopentadiene	<190		670	190	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Hexachloroethane	<51		170	51	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Isophorone	<37		170	37	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Methylnaphthalene	<6.1	*	67	6.1	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Methylphenol	<53		170	53	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
3 & 4 Methylphenol	<56		170	56	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Naphthalene	<5.1		33	5.1	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Nitroaniline	<45		170	45	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
3-Nitroaniline	<100		330	100	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Nitroaniline	<140		330	140	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Nitrobenzene	<8.3		33	8.3	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2-Nitrophenol	<79		330	79	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
4-Nitrophenol	<320		670	320	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
N-Nitrosodi-n-propylamine	<41		67	41	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
N-Nitrosodiphenylamine	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Pentachlorophenol	<530		670	530	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Phenanthrene	<4.6		33	4.6	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Phenol	<74		170	74	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
Pyrene	<6.6		33	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4,5-Trichlorophenol	<76		330	76	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1
2,4,6-Trichlorophenol	<110		330	110	ug/Kg	☼	10/13/20 21:32	10/14/20 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*43 - 145*	*10/13/20 21:32*	*10/14/20 11:27*	*1*
2-Fluorophenol (Surr)	*107*		*31 - 166*	*10/13/20 21:32*	*10/14/20 11:27*	*1*
Nitrobenzene-d5 (Surr)	*93*		*37 - 147*	*10/13/20 21:32*	*10/14/20 11:27*	*1*
Phenol-d5 (Surr)	*92*		*30 - 153*	*10/13/20 21:32*	*10/14/20 11:27*	*1*
Terphenyl-d14 (Surr)	*142*		*42 - 157*	*10/13/20 21:32*	*10/14/20 11:27*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*10/13/20 21:32*	*10/14/20 11:27*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<1.4		2.7	1.4	mg/Kg	☼	09/30/20 08:55	10/13/20 20:53	50

Client Sample ID: SB-05 (29-31.5)

Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2

Matrix: Solid
Percent Solids: 94.8

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.72		1.8	0.72	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
alpha-BHC	<0.44		1.8	0.44	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
beta-BHC	<0.54		1.8	0.54	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
cis-Chlordane	<0.88		1.8	0.88	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
4,4'-DDD	<0.35		1.8	0.35	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
4,4'-DDE	<0.29		1.8	0.29	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
4,4'-DDT	<0.92		1.8	0.92	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
delta-BHC	<0.55		1.8	0.55	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Dieldrin	<0.24		1.8	0.24	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endosulfan I	<0.76		1.8	0.76	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endosulfan II	<0.28		1.8	0.28	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endosulfan sulfate	<0.32		1.8	0.32	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endrin	<0.24		1.8	0.24	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endrin aldehyde	<0.29		1.8	0.29	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Endrin ketone	<0.40		1.8	0.40	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
gamma-BHC (Lindane)	<0.38		1.8	0.38	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Heptachlor	<0.73		1.8	0.73	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Heptachlor epoxide	<0.62		1.8	0.62	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Methoxychlor	<0.34		8.7	0.34	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
Toxaphene	<7.4		17	7.4	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1
trans-Chlordane	<0.46		1.8	0.46	ug/Kg	☼	10/13/20 06:56	10/14/20 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*33 - 148*	*10/13/20 06:56*	*10/14/20 14:21*	*1*
Tetrachloro-m-xylene	*82*		*30 - 121*	*10/13/20 06:56*	*10/14/20 14:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.2		17	6.2	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1221	<7.7		17	7.7	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1232	<7.6		17	7.6	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1242	<5.7		17	5.7	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1248	<6.9		17	6.9	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1254	<3.8		17	3.8	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
PCB-1260	<8.6		17	8.6	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1
Polychlorinated biphenyls, Total	<3.3		17	3.3	ug/Kg	☼	10/13/20 06:56	10/14/20 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*49 - 129*	*10/13/20 06:56*	*10/14/20 02:38*	*1*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*10/13/20 06:56*	*10/14/20 02:38*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<99		350	99	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10
2,4-DB	<100		350	100	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10
Dicamba	<72		350	72	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10
Dichlorprop	<95		350	95	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10
Silvex (2,4,5-TP)	<90		350	90	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10
2,4,5-T	<85		350	85	ug/Kg	☼	10/13/20 08:05	10/15/20 14:47	10

Client Sample ID: SB-05 (29-31.5)

Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2

Matrix: Solid
Percent Solids: 94.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	60		25 - 120	10/13/20 08:05	10/15/20 14:47	10

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**6.2**	**B**	4.2	1.7	mg/Kg	☼	10/06/20 05:48	10/07/20 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	75		44 - 148	10/06/20 05:48	10/07/20 16:41	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.038		1.1	0.038	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
2,3,7,8-TCDF	**0.066**	**J B**	1.1	0.022	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,7,8-PeCDD	<0.047		5.3	0.047	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,7,8-PeCDF	**0.072**	**J q**	5.3	0.038	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
2,3,4,7,8-PeCDF	<0.038		5.3	0.038	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,4,7,8-HxCDD	**0.20**	**J q**	5.3	0.052	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,6,7,8-HxCDD	<0.048		5.3	0.048	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,7,8,9-HxCDD	<0.044		5.3	0.044	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,4,7,8-HxCDF	<0.070		5.3	0.070	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,6,7,8-HxCDF	<0.062		5.3	0.062	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,7,8,9-HxCDF	**0.049**	**J**	5.3	0.035	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
2,3,4,6,7,8-HxCDF	<0.037		5.3	0.037	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,4,6,7,8-HpCDD	**0.11**	**J B**	5.3	0.029	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,4,6,7,8-HpCDF	**0.18**	**J q B**	5.3	0.024	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
1,2,3,4,7,8,9-HpCDF	<0.035		5.3	0.035	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
OCDD	**1.3**	**J B**	11	0.044	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
OCDF	**0.52**	**J B q**	11	0.050	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total TCDD	<0.038		1.1	0.038	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total TCDF	**0.11**	**J q B**	1.1	0.022	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total PeCDD	<0.047		5.3	0.047	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total PeCDF	**0.16**	**J q**	5.3	0.038	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total HxCDD	**0.20**	**J q**	5.3	0.048	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total HxCDF	<0.051		5.3	0.051	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total HpCDD	**0.28**	**J B q**	5.3	0.029	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1
Total HpCDF	**0.18**	**J B q**	5.3	0.030	pg/g	☼	10/05/20 07:36	10/13/20 05:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	88		25 - 164	10/05/20 07:36	10/13/20 05:54	1
13C-2,3,7,8-TCDF	108		24 - 169	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,7,8-PeCDD	84		25 - 181	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,7,8-PeCDF	90		24 - 185	10/05/20 07:36	10/13/20 05:54	1
13C-2,3,4,7,8-PeCDF	96		21 - 178	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,4,7,8-HxCDD	82		32 - 141	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,6,7,8-HxCDD	85		28 - 130	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,4,7,8-HxCDF	105		26 - 152	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,6,7,8-HxCDF	101		26 - 123	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,7,8,9-HxCDF	107		29 - 147	10/05/20 07:36	10/13/20 05:54	1
13C-2,3,4,6,7,8-HxCDF	110		28 - 136	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,4,6,7,8-HpCDD	104		23 - 140	10/05/20 07:36	10/13/20 05:54	1
13C-1,2,3,4,6,7,8-HpCDF	132		28 - 143	10/05/20 07:36	10/13/20 05:54	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-05 (29-31.5)

Date Collected: 09/30/20 08:55
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-2

Matrix: Solid
Percent Solids: 94.8

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8,9-HpCDF	*114*		*26 - 138*	*10/05/20 07:36*	*10/13/20 05:54*	*1*
13C-OCDD	*101*		*17 - 157*	*10/05/20 07:36*	*10/13/20 05:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*113*		*35 - 197*	*10/05/20 07:36*	*10/13/20 05:54*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.7**		1.0	0.34	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Barium	**56**		1.0	0.11	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Cadmium	<0.036		0.20	0.036	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Chromium	**23**		1.0	0.50	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Lead	**3.7**		0.50	0.23	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1
Silver	**0.34**	**J**	0.50	0.13	mg/Kg	☼	10/13/20 18:37	10/14/20 09:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0058		0.017	0.0058	mg/Kg	☼	10/13/20 13:40	10/14/20 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.40		0.49	0.40	mg/Kg	☼	10/15/20 11:00	10/15/20 17:33	1
pH	**7.7**		0.2	0.2	SU			10/13/20 17:30	1
Percent Moisture	**5.2**		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	**94.8**		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (0-4)
Date Collected: 09/30/20 10:30
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-3
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**48**	**B**	27	16	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Bromobenzene	<38		110	38	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Bromochloromethane	<46		110	46	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Bromodichloromethane	<40		110	40	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Bromoform	<52		110	52	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Bromomethane	<85		320	85	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Carbon tetrachloride	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Chlorobenzene	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Chloroethane	<54		110	54	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Chloroform	<39		210	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Chloromethane	<34		110	34	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
2-Chlorotoluene	<33		110	33	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
4-Chlorotoluene	<37		110	37	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
cis-1,2-Dichloroethene	<44		110	44	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
cis-1,3-Dichloropropene	<44		110	44	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Dibromochloromethane	<52		110	52	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2-Dibromo-3-Chloropropane	<210		530	210	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2-Dibromoethane	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Dibromomethane	<29		110	29	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2-Dichlorobenzene	<36		110	36	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,3-Dichlorobenzene	<43		110	43	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,4-Dichlorobenzene	<39		110	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Dichlorodifluoromethane	<72		320	72	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1-Dichloroethane	<44		110	44	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2-Dichloroethane	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1-Dichloroethene	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2-Dichloropropane	<46		110	46	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,3-Dichloropropane	<39		110	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
2,2-Dichloropropane	<47		110	47	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1-Dichloropropene	<32		110	32	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Ethylbenzene	<20		27	20	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Hexachlorobutadiene	<48		110	48	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Isopropylbenzene	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Isopropyl ether	<29		110	29	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Methylene Chloride	<170		530	170	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Methyl tert-butyl ether	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
n-Butylbenzene	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
N-Propylbenzene	<44		110	44	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
p-Isopropyltoluene	<39		110	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
sec-Butylbenzene	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Styrene	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
tert-Butylbenzene	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1,1,2-Tetrachloroethane	<49		110	49	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1,2,2-Tetrachloroethane	<42		110	42	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Tetrachloroethene	<39		110	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Toluene	**130**		27	16	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
trans-1,2-Dichloroethene	<37		110	37	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
trans-1,3-Dichloropropene	<39		110	39	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2,3-Trichlorobenzene	<49		110	49	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50

Client Sample ID: SB-04 (0-4)
Date Collected: 09/30/20 10:30
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-3
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<36		110	36	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1,1-Trichloroethane	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,1,2-Trichloroethane	<38		110	38	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Trichloroethene	<17		53	17	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Trichlorofluoromethane	<46		110	46	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2,3-Trichloropropane	<44		210	44	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,2,4-Trimethylbenzene	**57**	**J**	110	38	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
1,3,5-Trimethylbenzene	<41		110	41	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Vinyl chloride	<28		110	28	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50
Xylenes, Total	**150**		53	23	ug/Kg	☼	09/30/20 10:30	10/13/20 13:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*09/30/20 10:30*	*10/13/20 13:16*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*09/30/20 10:30*	*10/13/20 13:16*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*09/30/20 10:30*	*10/13/20 13:16*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*09/30/20 10:30*	*10/13/20 13:16*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.4		35	6.4	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Acenaphthylene	**27**	**J**	35	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Anthracene	**39**		35	6.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzo[a]anthracene	**140**		35	4.8	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzo[a]pyrene	**150**		35	6.9	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzo[b]fluoranthene	**320**		35	7.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzo[g,h,i]perylene	**110**		35	11	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzoic acid	**1500**	**J**	1800	350	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzo[k]fluoranthene	**88**		35	11	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Benzyl alcohol	<350		720	350	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Bis(2-chloroethoxy)methane	<36		180	36	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Bis(2-chloroethyl)ether	<53		180	53	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Bis(2-ethylhexyl) phthalate	**930**		180	65	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Bromophenyl phenyl ether	<47		180	47	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Butyl benzyl phthalate	<68		180	68	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Carbazole	<89		180	89	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Chloroaniline	<170		720	170	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Chloro-3-methylphenol	<120		350	120	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Chloronaphthalene	<39		180	39	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Chlorophenol	<61		180	61	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Chlorophenyl phenyl ether	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Chrysene	**240**		35	9.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Dibenz(a,h)anthracene	**46**		35	6.9	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Dibenzofuran	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
1,2-Dichlorobenzene	<43		180	43	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
1,3-Dichlorobenzene	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
1,4-Dichlorobenzene	<46		180	46	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
3,3'-Dichlorobenzidine	<50		180	50	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4-Dichlorophenol	<85		350	85	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Diethyl phthalate	<60		180	60	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4-Dimethylphenol	<140		350	140	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (0-4)
Date Collected: 09/30/20 10:30
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-3
Matrix: Solid
Percent Solids: 89.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<47		180	47	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Di-n-butyl phthalate	<54		180	54	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4,6-Dinitro-2-methylphenol	<290		720	290	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4-Dinitrophenol	<630		720	630	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4-Dinitrotoluene	<57		180	57	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,6-Dinitrotoluene	<70		180	70	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Di-n-octyl phthalate	<58		180	58	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Fluoranthene	**370**		35	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Fluorene	**19**	**J**	35	5.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Hexachlorobenzene	<8.3		72	8.3	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Hexachlorobutadiene	<56		180	56	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Hexachlorocyclopentadiene	<200		720	200	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Hexachloroethane	<54		180	54	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Indeno[1,2,3-cd]pyrene	**75**		35	9.2	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Isophorone	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
1-Methylnaphthalene	**58**	**J**	72	8.7	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Methylnaphthalene	**80**	*****	72	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Methylphenol	<57		180	57	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
3 & 4 Methylphenol	<59		180	59	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Naphthalene	**51**		35	5.5	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Nitroaniline	<48		180	48	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
3-Nitroaniline	<110		350	110	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Nitroaniline	<150		350	150	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Nitrobenzene	<8.9		35	8.9	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2-Nitrophenol	<84		350	84	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
4-Nitrophenol	<340		720	340	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
N-Nitrosodi-n-propylamine	<44		72	44	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
N-Nitrosodiphenylamine	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,2'-oxybis[1-chloropropane]	<41		180	41	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Pentachlorophenol	<570		720	570	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Phenanthrene	**130**		35	5.0	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Phenol	<79		180	79	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
Pyrene	**310**		35	7.1	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
1,2,4-Trichlorobenzene	<38		180	38	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4,5-Trichlorophenol	<81		350	81	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1
2,4,6-Trichlorophenol	<120		350	120	ug/Kg	☼	10/13/20 21:32	10/14/20 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*	*10/13/20 21:32*	*10/14/20 18:33*	*1*
2-Fluorophenol (Surr)	*111*		*31 - 166*	*10/13/20 21:32*	*10/14/20 18:33*	*1*
Nitrobenzene-d5 (Surr)	*98*		*37 - 147*	*10/13/20 21:32*	*10/14/20 18:33*	*1*
Phenol-d5 (Surr)	*95*		*30 - 153*	*10/13/20 21:32*	*10/14/20 18:33*	*1*
Terphenyl-d14 (Surr)	*143*		*42 - 157*	*10/13/20 21:32*	*10/14/20 18:33*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*31 - 143*	*10/13/20 21:32*	*10/14/20 18:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**55**		1.1	0.36	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1
Barium	**95**		1.1	0.12	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1
Cadmium	**0.38**		0.21	0.038	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (0-4)
Date Collected: 09/30/20 10:30
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-3
Matrix: Solid
Percent Solids: 89.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	24		1.1	0.53	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1
Lead	48		0.53	0.25	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1
Selenium	1.0	J	1.1	0.63	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1
Silver	0.19	J	0.53	0.14	mg/Kg	☼	10/13/20 18:37	10/14/20 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.016	0.0054	mg/Kg	☼	10/13/20 13:40	10/14/20 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	89.3		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid
Percent Solids: 96.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<14		24	14	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Bromobenzene	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Bromochloromethane	<42		97	42	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Bromodichloromethane	<36		97	36	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Bromoform	<47		97	47	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Bromomethane	<77		290	77	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Carbon tetrachloride	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Chlorobenzene	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Chloroethane	<49		97	49	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Chloroform	<36		190	36	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Chloromethane	<31		97	31	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
2-Chlorotoluene	<30		97	30	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
4-Chlorotoluene	<34		97	34	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
cis-1,2-Dichloroethene	<40		97	40	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
cis-1,3-Dichloropropene	<40		97	40	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Dibromochloromethane	<47		97	47	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2-Dibromo-3-Chloropropane	<190		490	190	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2-Dibromoethane	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Dibromomethane	<26		97	26	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2-Dichlorobenzene	<32		97	32	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,3-Dichlorobenzene	<39		97	39	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,4-Dichlorobenzene	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Dichlorodifluoromethane	<65		290	65	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1-Dichloroethane	<40		97	40	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2-Dichloroethane	<38		97	38	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1-Dichloroethene	<38		97	38	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2-Dichloropropane	<42		97	42	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,3-Dichloropropane	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
2,2-Dichloropropane	<43		97	43	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1-Dichloropropene	<29		97	29	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Ethylbenzene	<18		24	18	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Hexachlorobutadiene	<43		97	43	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Isopropylbenzene	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Isopropyl ether	<27		97	27	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Methylene Chloride	<160		490	160	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Methyl tert-butyl ether	<38		97	38	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
n-Butylbenzene	<38		97	38	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
N-Propylbenzene	<40		97	40	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
p-Isopropyltoluene	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
sec-Butylbenzene	<39		97	39	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Styrene	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
tert-Butylbenzene	<39		97	39	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1,1,2-Tetrachloroethane	<45		97	45	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1,2,2-Tetrachloroethane	<39		97	39	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Tetrachloroethene	<36		97	36	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Toluene	<14		24	14	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
trans-1,2-Dichloroethene	<34		97	34	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
trans-1,3-Dichloropropene	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2,3-Trichlorobenzene	<44		97	44	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid
Percent Solids: 96.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<33		97	33	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1,1-Trichloroethane	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,1,2-Trichloroethane	<34		97	34	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Trichloroethene	<16		49	16	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Trichlorofluoromethane	<42		97	42	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2,3-Trichloropropane	<40		190	40	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,2,4-Trimethylbenzene	<35		97	35	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
1,3,5-Trimethylbenzene	<37		97	37	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Vinyl chloride	<25		97	25	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50
Xylenes, Total	<21		49	21	ug/Kg	☼	09/30/20 11:05	10/13/20 13:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*09/30/20 11:05*	*10/13/20 13:43*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*09/30/20 11:05*	*10/13/20 13:43*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/30/20 11:05*	*10/13/20 13:43*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*09/30/20 11:05*	*10/13/20 13:43*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Anthracene	<5.6		34	5.6	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzo[a]anthracene	<4.5		34	4.5	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzo[a]pyrene	<6.5		34	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzo[b]fluoranthene	<7.3		34	7.3	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzoic acid	<340		1700	340	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Benzyl alcohol	<340		680	340	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Bis(2-chloroethoxy)methane	<35		170	35	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Bis(2-chloroethyl)ether	<51		170	51	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Bis(2-ethylhexyl) phthalate	<62		170	62	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Bromophenyl phenyl ether	<45		170	45	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Butyl benzyl phthalate	<64		170	64	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Carbazole	<84		170	84	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Chloroaniline	<160		680	160	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Chloro-3-methylphenol	<120		340	120	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Chloronaphthalene	<37		170	37	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Chlorophenol	<58		170	58	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Chlorophenyl phenyl ether	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Chrysene	<9.2		34	9.2	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Dibenz(a,h)anthracene	<6.5		34	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Dibenzofuran	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
1,3-Dichlorobenzene	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4-Dichlorophenol	<80		340	80	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Diethyl phthalate	<57		170	57	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4-Dimethylphenol	<130		340	130	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid
Percent Solids: 96.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Di-n-butyl phthalate	<52		170	52	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4,6-Dinitro-2-methylphenol	<270		680	270	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4-Dinitrophenol	<600		680	600	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4-Dinitrotoluene	<54		170	54	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,6-Dinitrotoluene	<66		170	66	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Di-n-octyl phthalate	<55		170	55	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Fluoranthene	<6.3		34	6.3	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Hexachlorobenzene	<7.8		68	7.8	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Hexachlorobutadiene	<53		170	53	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Hexachlorocyclopentadiene	<190		680	190	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Hexachloroethane	<51		170	51	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Isophorone	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
1-Methylnaphthalene	<8.3		68	8.3	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Methylnaphthalene	<6.2	*	68	6.2	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Methylphenol	<54		170	54	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
3 & 4 Methylphenol	<56		170	56	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Naphthalene	<5.2		34	5.2	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Nitroaniline	<45		170	45	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
3-Nitroaniline	<100		340	100	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Nitroaniline	<140		340	140	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Nitrobenzene	<8.4		34	8.4	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2-Nitrophenol	<80		340	80	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
4-Nitrophenol	<320		680	320	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
N-Nitrosodi-n-propylamine	<41		68	41	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
N-Nitrosodiphenylamine	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Pentachlorophenol	<540		680	540	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Phenanthrene	<4.7		34	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Phenol	<75		170	75	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
Pyrene	<6.7		34	6.7	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4,5-Trichlorophenol	<77		340	77	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1
2,4,6-Trichlorophenol	<120		340	120	ug/Kg	☼	10/13/20 21:32	10/14/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*10/13/20 21:32*	*10/14/20 13:40*	*1*
2-Fluorophenol (Surr)	*106*		*31 - 166*	*10/13/20 21:32*	*10/14/20 13:40*	*1*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*	*10/13/20 21:32*	*10/14/20 13:40*	*1*
Phenol-d5 (Surr)	*89*		*30 - 153*	*10/13/20 21:32*	*10/14/20 13:40*	*1*
Terphenyl-d14 (Surr)	*132*		*42 - 157*	*10/13/20 21:32*	*10/14/20 13:40*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 143*	*10/13/20 21:32*	*10/14/20 13:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.63**	**J**	0.88	0.30	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1
Barium	**12**		0.88	0.10	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1
Cadmium	<0.032		0.18	0.032	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid
Percent Solids: 96.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	6.9		0.88	0.44	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1
Lead	1.1		0.44	0.20	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1
Selenium	<0.52		0.88	0.52	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1
Silver	0.16	J	0.44	0.11	mg/Kg	☼	10/13/20 18:37	10/14/20 09:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0053		0.016	0.0053	mg/Kg	☼	10/13/20 13:40	10/14/20 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	96.5		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid
Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**130**	**B**	26	15	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Bromobenzene	<38		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Bromochloromethane	<45		110	45	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Bromodichloromethane	<39		110	39	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Bromoform	<51		110	51	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Bromomethane	<84		320	84	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Carbon tetrachloride	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Chlorobenzene	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Chloroethane	<53		110	53	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Chloroform	<39		210	39	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Chloromethane	<34		110	34	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
2-Chlorotoluene	<33		110	33	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
4-Chlorotoluene	<37		110	37	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
cis-1,2-Dichloroethene	<43		110	43	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
cis-1,3-Dichloropropene	<44		110	44	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Dibromochloromethane	<52		110	52	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2-Dibromo-3-Chloropropane	<210		530	210	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2-Dibromoethane	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Dibromomethane	<29		110	29	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2-Dichlorobenzene	<35		110	35	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,3-Dichlorobenzene	<42		110	42	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,4-Dichlorobenzene	<38		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Dichlorodifluoromethane	<71		320	71	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1-Dichloroethane	<43		110	43	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2-Dichloroethane	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1-Dichloroethene	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2-Dichloropropane	<45		110	45	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,3-Dichloropropane	<38		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
2,2-Dichloropropane	<47		110	47	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1-Dichloropropene	<31		110	31	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Ethylbenzene	**140**		26	19	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Hexachlorobutadiene	<47		110	47	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Isopropylbenzene	**98**	**J**	110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Isopropyl ether	<29		110	29	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Methylene Chloride	<170		530	170	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Methyl tert-butyl ether	<42		110	42	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
n-Butylbenzene	**46**	**J**	110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
N-Propylbenzene	**140**		110	44	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
p-Isopropyltoluene	<38		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
sec-Butylbenzene	<42		110	42	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Styrene	<41		110	41	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
tert-Butylbenzene	<42		110	42	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1,1,2-Tetrachloroethane	<49		110	49	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1,2,2-Tetrachloroethane	<42		110	42	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Tetrachloroethene	<39		110	39	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Toluene	**560**		26	16	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
trans-1,2-Dichloroethene	<37		110	37	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
trans-1,3-Dichloropropene	<38		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2,3-Trichlorobenzene	<48		110	48	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid
Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<36		110	36	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1,1-Trichloroethane	<40		110	40	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,1,2-Trichloroethane	<37		110	37	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Trichloroethene	<17		53	17	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Trichlorofluoromethane	<45		110	45	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2,3-Trichloropropane	<44		210	44	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,2,4-Trimethylbenzene	**210**		110	38	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
1,3,5-Trimethylbenzene	**56**	**J**	110	40	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Vinyl chloride	<28		110	28	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50
Xylenes, Total	**780**		53	23	ug/Kg	☼	09/30/20 11:40	10/13/20 14:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*09/30/20 11:40*	*10/13/20 14:09*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*09/30/20 11:40*	*10/13/20 14:09*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*09/30/20 11:40*	*10/13/20 14:09*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*09/30/20 11:40*	*10/13/20 14:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**16**	**J**	35	6.3	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Acenaphthylene	**29**	**J**	35	4.6	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Anthracene	**68**		35	5.9	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzo[a]anthracene	**280**		35	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzo[a]pyrene	**200**		35	6.8	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzo[b]fluoranthene	**370**		35	7.6	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzo[g,h,i]perylene	**120**		35	11	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzoic acid	<350		1800	350	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzo[k]fluoranthene	**110**		35	10	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Benzyl alcohol	<350		710	350	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Bis(2-chloroethoxy)methane	<36		180	36	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Bis(2-chloroethyl)ether	<53		180	53	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Bis(2-ethylhexyl) phthalate	<64		180	64	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Bromophenyl phenyl ether	<46		180	46	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Butyl benzyl phthalate	<67		180	67	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Carbazole	<88		180	88	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Chloroaniline	<170		710	170	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Chloro-3-methylphenol	<120		350	120	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Chloronaphthalene	<39		180	39	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Chlorophenol	<60		180	60	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Chlorophenyl phenyl ether	<41		180	41	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Chrysene	**320**		35	9.6	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Dibenz(a,h)anthracene	**52**		35	6.8	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Dibenzofuran	**49**	**J**	180	41	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
1,2-Dichlorobenzene	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
1,3-Dichlorobenzene	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
1,4-Dichlorobenzene	<45		180	45	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
3,3'-Dichlorobenzidine	<49		180	49	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4-Dichlorophenol	<84		350	84	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Diethyl phthalate	<60		180	60	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4-Dimethylphenol	<130		350	130	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid
Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<46		180	46	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Di-n-butyl phthalate	<54		180	54	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4,6-Dinitro-2-methylphenol	<280		710	280	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4-Dinitrophenol	<620		710	620	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4-Dinitrotoluene	<56		180	56	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,6-Dinitrotoluene	<69		180	69	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Di-n-octyl phthalate	<57		180	57	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Fluoranthene	**400**		35	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Fluorene	**27**	**J**	35	4.9	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Hexachlorobenzene	<8.2		71	8.2	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Hexachlorobutadiene	<55		180	55	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Hexachlorocyclopentadiene	<200		710	200	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Hexachloroethane	<54		180	54	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Indeno[1,2,3-cd]pyrene	**81**		35	9.1	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Isophorone	<40		180	40	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
1-Methylnaphthalene	**120**		71	8.6	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Methylnaphthalene	**160**	*	71	6.5	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Methylphenol	<56		180	56	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
3 & 4 Methylphenol	<59		180	59	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Naphthalene	**170**		35	5.4	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Nitroaniline	<47		180	47	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
3-Nitroaniline	<110		350	110	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Nitroaniline	<150		350	150	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Nitrobenzene	<8.8		35	8.8	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2-Nitrophenol	<83		350	83	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
4-Nitrophenol	<330		710	330	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
N-Nitrosodi-n-propylamine	<43		71	43	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
N-Nitrosodiphenylamine	<42		180	42	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,2'-oxybis[1-chloropropane]	<41		180	41	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Pentachlorophenol	<560		710	560	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Phenanthrene	**270**		35	4.9	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Phenol	<78		180	78	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
Pyrene	**450**		35	7.0	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
1,2,4-Trichlorobenzene	<38		180	38	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4,5-Trichlorophenol	<80		350	80	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1
2,4,6-Trichlorophenol	<120		350	120	ug/Kg	☼	10/13/20 21:32	10/14/20 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*	*10/13/20 21:32*	*10/14/20 16:21*	*1*
2-Fluorophenol (Surr)	*94*		*31 - 166*	*10/13/20 21:32*	*10/14/20 16:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*10/13/20 21:32*	*10/14/20 16:21*	*1*
Phenol-d5 (Surr)	*80*		*30 - 153*	*10/13/20 21:32*	*10/14/20 16:21*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*10/13/20 21:32*	*10/14/20 16:21*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*31 - 143*	*10/13/20 21:32*	*10/14/20 16:21*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.3**		1.0	0.35	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1
Barium	**120**		1.0	0.12	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1
Cadmium	**0.76**		0.20	0.037	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid
Percent Solids: 93.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	69		1.0	0.51	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1
Lead	41		0.51	0.24	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1
Selenium	0.94	J	1.0	0.60	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1
Silver	0.34	J	0.51	0.13	mg/Kg	☼	10/13/20 18:37	10/14/20 09:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.017	0.0056	mg/Kg	☼	10/13/20 13:40	10/14/20 07:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	93.3		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (24-26)
Date Collected: 09/30/20 12:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-6
Matrix: Solid
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**32**	**B**	22	13	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Bromobenzene	<31		88	31	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Bromochloromethane	<38		88	38	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Bromodichloromethane	<33		88	33	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Bromoform	<43		88	43	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Bromomethane	<70		270	70	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Carbon tetrachloride	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Chlorobenzene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Chloroethane	<45		88	45	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Chloroform	<33		180	33	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Chloromethane	<28		88	28	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
2-Chlorotoluene	<28		88	28	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
4-Chlorotoluene	<31		88	31	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
cis-1,2-Dichloroethene	<36		88	36	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
cis-1,3-Dichloropropene	<37		88	37	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Dibromochloromethane	<43		88	43	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2-Dibromo-3-Chloropropane	<180		440	180	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2-Dibromoethane	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Dibromomethane	<24		88	24	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2-Dichlorobenzene	<30		88	30	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,3-Dichlorobenzene	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,4-Dichlorobenzene	<32		88	32	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Dichlorodifluoromethane	<60		270	60	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1-Dichloroethane	<36		88	36	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2-Dichloroethane	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1-Dichloroethene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2-Dichloropropane	<38		88	38	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,3-Dichloropropane	<32		88	32	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
2,2-Dichloropropane	<39		88	39	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1-Dichloropropene	<26		88	26	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Ethylbenzene	**36**		22	16	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Hexachlorobutadiene	<39		88	39	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Isopropylbenzene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Isopropyl ether	<24		88	24	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Methylene Chloride	<140		440	140	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Methyl tert-butyl ether	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
n-Butylbenzene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
N-Propylbenzene	<37		88	37	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
p-Isopropyltoluene	<32		88	32	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
sec-Butylbenzene	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Styrene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
tert-Butylbenzene	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1,1,2-Tetrachloroethane	<41		88	41	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1,2,2-Tetrachloroethane	<35		88	35	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Tetrachloroethene	<33		88	33	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Toluene	**120**		22	13	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
trans-1,2-Dichloroethene	<31		88	31	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
trans-1,3-Dichloropropene	<32		88	32	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2,3-Trichlorobenzene	<40		88	40	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (24-26)
Date Collected: 09/30/20 12:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-6
Matrix: Solid
Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<30		88	30	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1,1-Trichloroethane	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,1,2-Trichloroethane	<31		88	31	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Trichloroethene	<14		44	14	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Trichlorofluoromethane	<38		88	38	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,2,4-Trimethylbenzene	**47**	**J**	88	32	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
1,3,5-Trimethylbenzene	<34		88	34	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Vinyl chloride	<23		88	23	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50
Xylenes, Total	**170**		44	19	ug/Kg	☼	09/30/20 12:00	10/13/20 14:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*09/30/20 12:00*	*10/13/20 14:36*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*09/30/20 12:00*	*10/13/20 14:36*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*09/30/20 12:00*	*10/13/20 14:36*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*09/30/20 12:00*	*10/13/20 14:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.1		34	6.1	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzo[a]anthracene	**18**	**J**	34	4.6	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzo[a]pyrene	**15**	**J**	34	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzo[b]fluoranthene	**14**	**J**	34	7.3	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzo[g,h,i]perylene	**33**	**J**	34	11	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzoic acid	<340		1700	340	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzo[k]fluoranthene	**11**	**J**	34	10	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Benzyl alcohol	<340		690	340	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Bis(2-chloroethoxy)methane	<35		170	35	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Bis(2-chloroethyl)ether	<51		170	51	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Bis(2-ethylhexyl) phthalate	<62		170	62	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Bromophenyl phenyl ether	<45		170	45	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Butyl benzyl phthalate	<65		170	65	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Carbazole	<85		170	85	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Chloroaniline	<160		690	160	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Chloro-3-methylphenol	<120		340	120	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Chloronaphthalene	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Chlorophenol	<58		170	58	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Chlorophenyl phenyl ether	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Chrysene	**20**	**J**	34	9.3	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Dibenzofuran	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
1,2-Dichlorobenzene	<41		170	41	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
1,3-Dichlorobenzene	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
1,4-Dichlorobenzene	<44		170	44	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
3,3'-Dichlorobenzidine	<48		170	48	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4-Dichlorophenol	<81		340	81	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Diethyl phthalate	<58		170	58	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4-Dimethylphenol	<130		340	130	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (24-26)
Date Collected: 09/30/20 12:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-6
Matrix: Solid
Percent Solids: 94.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<44		170	44	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Di-n-butyl phthalate	<52		170	52	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4,6-Dinitro-2-methylphenol	<270		690	270	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4-Dinitrophenol	<600		690	600	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4-Dinitrotoluene	<54		170	54	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,6-Dinitrotoluene	<67		170	67	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Di-n-octyl phthalate	<56		170	56	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Fluoranthene	**20**	**J**	34	6.3	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Fluorene	**16**	**J**	34	4.8	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Hexachlorobenzene	<7.9		69	7.9	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Hexachlorobutadiene	<53		170	53	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Hexachlorocyclopentadiene	<200		690	200	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Hexachloroethane	<52		170	52	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Indeno[1,2,3-cd]pyrene	<8.8		34	8.8	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Isophorone	<38		170	38	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
1-Methylnaphthalene	**87**		69	8.3	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Methylnaphthalene	**110**	*	69	6.3	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Methylphenol	<55		170	55	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
3 & 4 Methylphenol	<57		170	57	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Naphthalene	**96**		34	5.2	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Nitroaniline	<46		170	46	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
3-Nitroaniline	<110		340	110	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Nitroaniline	<140		340	140	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Nitrobenzene	<8.5		34	8.5	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2-Nitrophenol	<80		340	80	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
4-Nitrophenol	<320		690	320	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
N-Nitrosodi-n-propylamine	<42		69	42	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
N-Nitrosodiphenylamine	<40		170	40	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Pentachlorophenol	<550		690	550	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Phenanthrene	**48**		34	4.7	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Phenol	<76		170	76	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
Pyrene	**21**	**J**	34	6.8	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
1,2,4-Trichlorobenzene	<37		170	37	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4,5-Trichlorophenol	<78		340	78	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1
2,4,6-Trichlorophenol	<120		340	120	ug/Kg	☼	10/13/20 21:32	10/14/20 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*10/13/20 21:32*	*10/14/20 15:54*	*1*
2-Fluorophenol (Surr)	*108*		*31 - 166*	*10/13/20 21:32*	*10/14/20 15:54*	*1*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*10/13/20 21:32*	*10/14/20 15:54*	*1*
Phenol-d5 (Surr)	*93*		*30 - 153*	*10/13/20 21:32*	*10/14/20 15:54*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*10/13/20 21:32*	*10/14/20 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*10/13/20 21:32*	*10/14/20 15:54*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.1**		0.90	0.31	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1
Barium	**32**		0.90	0.10	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1
Cadmium	<0.033		0.18	0.033	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-02 (24-26)
Date Collected: 09/30/20 12:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-6
Matrix: Solid
Percent Solids: 94.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	20		0.90	0.45	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1
Lead	4.2		0.45	0.21	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1
Selenium	0.68	J	0.90	0.53	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1
Silver	0.22	J	0.45	0.12	mg/Kg	☼	10/13/20 18:37	10/14/20 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0052		0.016	0.0052	mg/Kg	☼	10/13/20 13:40	10/14/20 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		0.1	0.1	%			10/13/20 08:59	1
Percent Solids	94.9		0.1	0.1	%			10/13/20 08:59	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)
Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/13/20 11:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/13/20 11:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/13/20 11:55	1
Bromoform	<0.48		1.0	0.48	ug/L			10/13/20 11:55	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/13/20 11:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/13/20 11:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/13/20 11:55	1
Chloroform	<0.37		2.0	0.37	ug/L			10/13/20 11:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/13/20 11:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/13/20 11:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/13/20 11:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/13/20 11:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/13/20 11:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/13/20 11:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/13/20 11:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/13/20 11:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/13/20 11:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/13/20 11:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/13/20 11:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/13/20 11:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/13/20 11:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/13/20 11:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/13/20 11:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/13/20 11:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/13/20 11:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/13/20 11:55	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/13/20 11:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/13/20 11:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/13/20 11:55	1
Styrene	<0.39		1.0	0.39	ug/L			10/13/20 11:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/13/20 11:55	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/13/20 11:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/13/20 11:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/13/20 11:55	1
Toluene	<0.15		0.50	0.15	ug/L			10/13/20 11:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/13/20 11:55	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/13/20 11:55	1

Client Sample ID: TW-03 (093020)
Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/13/20 11:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/13/20 11:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/13/20 11:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/13/20 11:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/13/20 11:55	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/13/20 11:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/13/20 11:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/13/20 11:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/13/20 11:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/13/20 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*10/13/20 11:55*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*10/13/20 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/13/20 11:55*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*10/13/20 11:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/05/20 06:19	10/06/20 02:09	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/05/20 06:19	10/06/20 02:09	1
Anthracene	<0.27		0.80	0.27	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzoic acid	<4.6		16	4.6	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/05/20 06:19	10/06/20 02:09	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/05/20 06:19	10/06/20 02:09	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/05/20 06:19	10/06/20 02:09	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/05/20 06:19	10/06/20 02:09	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/05/20 06:19	10/06/20 02:09	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/05/20 06:19	10/06/20 02:09	1
Carbazole	<0.28		4.0	0.28	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L		10/05/20 06:19	10/06/20 02:09	1
Chrysene	<0.055		0.16	0.055	ug/L		10/05/20 06:19	10/06/20 02:09	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/05/20 06:19	10/06/20 02:09	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/05/20 06:19	10/06/20 02:09	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L		10/05/20 06:19	10/06/20 02:09	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/05/20 06:19	10/06/20 02:09	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/05/20 06:19	10/06/20 02:09	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/05/20 06:19	10/06/20 02:09	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 02:09	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)
Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/05/20 06:19	10/06/20 02:09	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/05/20 06:19	10/06/20 02:09	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/05/20 06:19	10/06/20 02:09	1
Di-n-octyl phthalate	<0.84	*	8.0	0.84	ug/L		10/05/20 06:19	10/06/20 02:09	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/05/20 06:19	10/06/20 02:09	1
Fluorene	<0.20		0.80	0.20	ug/L		10/05/20 06:19	10/06/20 02:09	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/05/20 06:19	10/06/20 02:09	1
Hexachlorobutadiene	<0.41		4.0	0.41	ug/L		10/05/20 06:19	10/06/20 02:09	1
Hexachlorocyclopentadiene	<5.1		16	5.1	ug/L		10/05/20 06:19	10/06/20 02:09	1
Hexachloroethane	<0.48		4.0	0.48	ug/L		10/05/20 06:19	10/06/20 02:09	1
Indeno[1,2,3-cd]pyrene	<0.060	*	0.16	0.060	ug/L		10/05/20 06:19	10/06/20 02:09	1
Isophorone	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 02:09	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/05/20 06:19	10/06/20 02:09	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/05/20 06:19	10/06/20 02:09	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/05/20 06:19	10/06/20 02:09	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/05/20 06:19	10/06/20 02:09	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/05/20 06:19	10/06/20 02:09	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/05/20 06:19	10/06/20 02:09	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/05/20 06:19	10/06/20 02:09	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/05/20 06:19	10/06/20 02:09	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 02:09	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/05/20 06:19	10/06/20 02:09	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/05/20 06:19	10/06/20 02:09	1
Phenol	<0.54		4.0	0.54	ug/L		10/05/20 06:19	10/06/20 02:09	1
Pyrene	<0.34		0.80	0.34	ug/L		10/05/20 06:19	10/06/20 02:09	1
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/05/20 06:19	10/06/20 02:09	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/05/20 06:19	10/06/20 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*34 - 110*	*10/05/20 06:19*	*10/06/20 02:09*	*1*
2-Fluorophenol (Surr)	*52*		*27 - 110*	*10/05/20 06:19*	*10/06/20 02:09*	*1*
Nitrobenzene-d5 (Surr)	*60*		*36 - 120*	*10/05/20 06:19*	*10/06/20 02:09*	*1*
Phenol-d5 (Surr)	*35*		*20 - 110*	*10/05/20 06:19*	*10/06/20 02:09*	*1*
Terphenyl-d14 (Surr)	*97*		*40 - 145*	*10/05/20 06:19*	*10/06/20 02:09*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*40 - 145*	*10/05/20 06:19*	*10/06/20 02:09*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/14/20 01:32	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)

Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0060		0.045	0.0060	ug/L		10/07/20 08:54	10/08/20 05:45	1
alpha-BHC	<0.0030		0.045	0.0030	ug/L		10/07/20 08:54	10/08/20 05:45	1
beta-BHC	<0.012		0.045	0.012	ug/L		10/07/20 08:54	10/08/20 05:45	1
cis-Chlordane	<0.0050		0.045	0.0050	ug/L		10/07/20 08:54	10/08/20 05:45	1
4,4'-DDD	<0.015		0.045	0.015	ug/L		10/07/20 08:54	10/08/20 05:45	1
4,4'-DDE	<0.0043		0.045	0.0043	ug/L		10/07/20 08:54	10/08/20 05:45	1
4,4'-DDT	<0.0036		0.045	0.0036	ug/L		10/07/20 08:54	10/08/20 05:45	1
delta-BHC	<0.012		0.045	0.012	ug/L		10/07/20 08:54	10/08/20 05:45	1
Dieldrin	<0.015		0.045	0.015	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endosulfan I	<0.0047		0.045	0.0047	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endosulfan II	<0.0032		0.045	0.0032	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endosulfan sulfate	<0.013		0.045	0.013	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endrin	<0.016		0.045	0.016	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endrin aldehyde	<0.0093		0.045	0.0093	ug/L		10/07/20 08:54	10/08/20 05:45	1
Endrin ketone	<0.019		0.045	0.019	ug/L		10/07/20 08:54	10/08/20 05:45	1
gamma-BHC (Lindane)	<0.0064		0.045	0.0064	ug/L		10/07/20 08:54	10/08/20 05:45	1
Heptachlor	<0.015		0.045	0.015	ug/L		10/07/20 08:54	10/08/20 05:45	1
Heptachlor epoxide	<0.016		0.045	0.016	ug/L		10/07/20 08:54	10/08/20 05:45	1
Methoxychlor	<0.026		0.091	0.026	ug/L		10/07/20 08:54	10/08/20 05:45	1
Toxaphene	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 05:45	1
trans-Chlordane	<0.0082		0.045	0.0082	ug/L		10/07/20 08:54	10/08/20 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*30 - 130*	*10/07/20 08:54*	*10/08/20 05:45*	*1*
Tetrachloro-m-xylene	*64*		*30 - 120*	*10/07/20 08:54*	*10/08/20 05:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.076		0.45	0.076	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1221	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1232	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1242	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1248	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1254	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1
PCB-1260	<0.079		0.45	0.079	ug/L		10/07/20 08:54	10/08/20 02:01	1
Polychlorinated biphenyls, Total	<0.23		0.45	0.23	ug/L		10/07/20 08:54	10/08/20 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*30 - 120*	*10/07/20 08:54*	*10/08/20 02:01*	*1*
DCB Decachlorobiphenyl	*102*		*30 - 140*	*10/07/20 08:54*	*10/08/20 02:01*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.53		1.1	0.53	ug/L		10/05/20 08:28	10/07/20 16:05	1
2,4-DB	<0.14		1.1	0.14	ug/L		10/05/20 08:28	10/07/20 16:05	1
Dicamba	<0.088		1.1	0.088	ug/L		10/05/20 08:28	10/07/20 16:05	1
Dichlorprop	<0.42		1.1	0.42	ug/L		10/05/20 08:28	10/07/20 16:05	1
Silvex (2,4,5-TP)	<0.33		1.1	0.33	ug/L		10/05/20 08:28	10/07/20 16:05	1
2,4,5-T	<0.50		1.1	0.50	ug/L		10/05/20 08:28	10/07/20 16:05	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)

Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	65		25 - 130	10/05/20 08:28	10/07/20 16:05	1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<0.036		0.11	0.036	mg/L		10/02/20 13:24	10/03/20 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	58		42 - 111	10/02/20 13:24	10/03/20 02:03	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**1.8**	**J B q**	12	0.45	pg/L		10/05/20 11:15	10/13/20 02:09	1
2,3,7,8-TCDF	**5.3**	**J B**	12	0.30	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,7,8-PeCDD	<0.52		59	0.52	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,7,8-PeCDF	<0.37		59	0.37	pg/L		10/05/20 11:15	10/13/20 02:09	1
2,3,4,7,8-PeCDF	<0.38		59	0.38	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,4,7,8-HxCDD	**1.9**	**J B q**	59	0.47	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,6,7,8-HxCDD	<0.42		59	0.42	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,7,8,9-HxCDD	<0.39		59	0.39	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,4,7,8-HxCDF	<0.66		59	0.66	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,6,7,8-HxCDF	<0.62		59	0.62	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,7,8,9-HxCDF	**0.84**	**J B q**	59	0.35	pg/L		10/05/20 11:15	10/13/20 02:09	1
2,3,4,6,7,8-HxCDF	<0.37		59	0.37	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,4,6,7,8-HpCDD	**1.5**	**J B q**	59	0.39	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,4,6,7,8-HpCDF	**0.92**	**J B q**	59	0.25	pg/L		10/05/20 11:15	10/13/20 02:09	1
1,2,3,4,7,8,9-HpCDF	**0.80**	**J B q**	59	0.39	pg/L		10/05/20 11:15	10/13/20 02:09	1
OCDD	**7.3**	**J B**	120	0.68	pg/L		10/05/20 11:15	10/13/20 02:09	1
OCDF	**3.1**	**J B q**	120	0.74	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total TCDD	**8.3**	**J B q**	12	0.45	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total TCDF	**9.9**	**J B q**	12	0.30	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total PeCDD	<0.52		59	0.52	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total PeCDF	<0.39		59	0.39	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total HxCDD	**1.9**	**J B q**	59	0.43	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total HxCDF	**0.84**	**J B q**	59	0.50	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total HpCDD	**3.1**	**J B q**	59	0.39	pg/L		10/05/20 11:15	10/13/20 02:09	1
Total HpCDF	**1.7**	**J B q**	59	0.32	pg/L		10/05/20 11:15	10/13/20 02:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	77		25 - 164	10/05/20 11:15	10/13/20 02:09	1
13C-2,3,7,8-TCDF	94		24 - 169	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,7,8-PeCDD	65		25 - 181	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	10/05/20 11:15	10/13/20 02:09	1
13C-2,3,4,7,8-PeCDF	81		21 - 178	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,4,7,8-HxCDD	77		32 - 141	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,6,7,8-HxCDD	82		28 - 130	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,4,7,8-HxCDF	99		26 - 152	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,6,7,8-HxCDF	93		26 - 123	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,7,8,9-HxCDF	97		29 - 147	10/05/20 11:15	10/13/20 02:09	1
13C-2,3,4,6,7,8-HxCDF	102		28 - 136	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,4,6,7,8-HpCDD	75		23 - 140	10/05/20 11:15	10/13/20 02:09	1
13C-1,2,3,4,6,7,8-HpCDF	102		28 - 143	10/05/20 11:15	10/13/20 02:09	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: TW-03 (093020)

Date Collected: 09/30/20 13:50
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-7

Matrix: Water

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	86		26 - 138	10/05/20 11:15	10/13/20 02:09	1
13C-OCDD	73		17 - 157	10/05/20 11:15	10/13/20 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	109		35 - 197	10/05/20 11:15	10/13/20 02:09	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.32**	**J**	1.0	0.23	ug/L		10/02/20 18:13	10/03/20 08:48	1
Barium	**160**		2.5	0.73	ug/L		10/02/20 18:13	10/03/20 08:48	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/20 18:13	10/03/20 08:48	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/20 18:13	10/03/20 08:48	1
Lead	**0.91**		0.50	0.19	ug/L		10/02/20 18:13	10/03/20 08:48	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/20 18:13	10/03/20 08:48	1
Silver	<0.12		0.50	0.12	ug/L		10/02/20 18:13	10/03/20 08:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/13/20 10:00	10/14/20 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/16/20 12:30	10/16/20 15:37	1
pH	**7.2**	**HF**	0.2	0.2	SU			10/12/20 13:01	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: Trip Blank

Date Collected: 09/30/20 00:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/20 13:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/20 13:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/20 13:42	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/20 13:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/20 13:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/20 13:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/20 13:42	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/20 13:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/20 13:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/20 13:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/20 13:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/20 13:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/20 13:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/20 13:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/20 13:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/20 13:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/20 13:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/20 13:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/20 13:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/20 13:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/20 13:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/20 13:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/20 13:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/20 13:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/20 13:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/20 13:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/20 13:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/20 13:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/20 13:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/20 13:42	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/20 13:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/20 13:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/20 13:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/20 13:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/20 13:42	1
Toluene	<0.15		0.50	0.15	ug/L			10/14/20 13:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/20 13:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: Trip Blank
Date Collected: 09/30/20 00:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/20 13:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/20 13:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/20 13:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/20 13:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/20 13:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/20 13:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/20 13:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/20 13:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/20 13:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/20 13:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/20 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*10/14/20 13:42*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*10/14/20 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*10/14/20 13:42*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/14/20 13:42*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-188700-1	SB-05 (0-4)	100	96	97	97
500-188700-2	SB-05 (29-31.5)	100	98	99	98
500-188700-3	SB-04 (0-4)	102	96	98	97
500-188700-4	SB-04 (24-26)	104	97	97	98
500-188700-5	SB-02 (0-4)	98	97	97	100
500-188700-6	SB-02 (24-26)	102	96	98	97
LB3 500-566160/21-A	Method Blank	102	95	96	98
LCS 500-566160/22-A	Lab Control Sample	97	99	96	101
LCS 500-566182/4	Lab Control Sample	103	94	94	102
MB 500-566182/6	Method Blank	101	98	97	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-188700-7	TW-03 (093020)	96	98	97	100
500-188700-8	Trip Blank	91	106	103	98
LCS 500-566181/4	Lab Control Sample	103	94	94	102
LCS 500-566424/4	Lab Control Sample	93	98	94	101
MB 500-566181/6	Method Blank	101	98	97	98
MB 500-566424/6	Method Blank	98	102	99	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-188700-1	SB-05 (0-4)	72	91	78	75	95	69
500-188700-1 - DL	SB-05 (0-4)	73	151	94	99	66	77
500-188700-2	SB-05 (29-31.5)	93	107	93	92	142	74
500-188700-3	SB-04 (0-4)	98	111	98	95	143	85
500-188700-4	SB-04 (24-26)	91	106	90	89	132	67
500-188700-5	SB-02 (0-4)	77	94	80	80	98	68
500-188700-6	SB-02 (24-26)	81	108	92	93	94	65
LCS 500-566391/2-A	Lab Control Sample	98	96	109	87	103	96
MB 500-566391/1-A	Method Blank	98	93	104	85	114	73

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(34-110)	(27-110)	(36-120)	(20-110)	(40-145)	(40-145)
500-188700-7	TW-03 (093020)	66	52	60	35	97	93
LCS 500-564790/2-A	Lab Control Sample	82	65	84	58	106	121
MB 500-564790/1-A	Method Blank	81	63	81	47	106	109

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-188700-1	SB-05 (0-4)	119	109
500-188700-2	SB-05 (29-31.5)	86	82
LCS 500-566179/2-A	Lab Control Sample	114	71
MB 500-566179/1-A	Method Blank	116	89

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(30-130)	(30-120)
500-188700-7	TW-03 (093020)	105	64
LCS 500-565341/2-A	Lab Control Sample	74	91
LCSD 500-565341/3-A	Lab Control Sample Dup	78	79
MB 500-565341/1-A	Method Blank	69	81

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(49-129)	(37-121)	(37-121)
500-188700-1	SB-05 (0-4)	89	83	94	92
500-188700-2	SB-05 (29-31.5)		75		98
LCS 500-566179/3-A	Lab Control Sample	76	71	112	108
MB 500-566179/1-A	Method Blank	91	89	103	108

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-188700-7	TW-03 (093020)	47	102
LCS 500-565341/4-A	Lab Control Sample	59	80
LCSD 500-565341/5-A	Lab Control Sample Dup	62	48
MB 500-565341/1-A	Method Blank	60	70

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA2
Lab Sample ID	Client Sample ID	(25-120)
500-188700-1	SB-05 (0-4)	67
500-188700-2	SB-05 (29-31.5)	60
LCS 500-566212/2-A	Lab Control Sample	61
MB 500-566212/1-A	Method Blank	48

Surrogate Legend

DCPAA = DCAA

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(25-130)
500-188700-7	TW-03 (093020)	65
LCS 500-564839/2-A	Lab Control Sample	71
MB 500-564839/1-A	Method Blank	65

Surrogate Legend

DCPAA = DCAA

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (44-148)
500-188700-1	SB-05 (0-4)	66
500-188700-2	SB-05 (29-31.5)	75
LCS 500-565022/2-A	Lab Control Sample	76
LCSD 500-565022/3-A	Lab Control Sample Dup	75
MB 500-565022/1-A	Method Blank	93

Surrogate Legend

C9 = n-Nonane

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (42-111)
500-188700-7	TW-03 (093020)	58
LCS 500-564670/2-A	Lab Control Sample	60
LCSD 500-564670/3-A	Lab Control Sample Dup	73
MB 500-564670/1-A	Method Blank	62

Surrogate Legend

C9 = n-Nonane

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	37TCDD (35-197)
500-188700-1	SB-05 (0-4)	110
500-188700-1 - RA	SB-05 (0-4)	115
500-188700-2	SB-05 (29-31.5)	113
MB 320-418650/1-A	Method Blank	98

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-418650/2-A	Lab Control Sample	104
LCSD 320-418650/3-A	Lab Control Sample Dup	98

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188700-1
Project/Site: 3M Wausau, WI 30052761

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)												
Lab Sample ID	Client Sample ID	37TCDD (31-191)												
LCS 320-418764/2-A	Lab Control Sample	114												
LCSD 320-418764/3-A	Lab Control Sample Dup	118												

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)												
Lab Sample ID	Client Sample ID	37TCDD (35-197)												
500-188700-7	TW-03 (093020)	109												
MB 320-418764/1-A	Method Blank	110												

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-566160/21-A
Matrix: Solid
Analysis Batch: 566182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566160

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.27	J	13	7.3	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Bromobenzene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Bromochloromethane	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Bromodichloromethane	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Bromoform	<24		50	24	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Bromomethane	<40		150	40	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Carbon tetrachloride	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Chlorobenzene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Chloroethane	<25		50	25	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Chloroform	<19		100	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Chloromethane	<16		50	16	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
2-Chlorotoluene	<16		50	16	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
4-Chlorotoluene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Dibromochloromethane	<24		50	24	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2-Dibromoethane	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Dibromomethane	<14		50	14	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1-Dichloroethane	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2-Dichloroethane	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1-Dichloroethene	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2-Dichloropropane	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,3-Dichloropropane	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
2,2-Dichloropropane	<22		50	22	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1-Dichloropropene	<15		50	15	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Hexachlorobutadiene	<22		50	22	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Isopropylbenzene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Isopropyl ether	<14		50	14	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Methylene Chloride	<82		250	82	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Naphthalene	<17		50	17	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
n-Butylbenzene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
N-Propylbenzene	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
p-Isopropyltoluene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
sec-Butylbenzene	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Styrene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
tert-Butylbenzene	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Tetrachloroethene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Toluene	<7.4		13	7.4	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-566160/21-A
Matrix: Solid
Analysis Batch: 566182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566160

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Trichloroethene	<8.2		25	8.2	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Trichlorofluoromethane	<21		50	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Vinyl chloride	<13		50	13	ug/Kg		10/12/20 19:45	10/13/20 11:02	50
Xylenes, Total	<11		25	11	ug/Kg		10/12/20 19:45	10/13/20 11:02	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*10/12/20 19:45*	*10/13/20 11:02*	*50*
Dibromofluoromethane (Surr)	*95*		*75 - 120*	*10/12/20 19:45*	*10/13/20 11:02*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*10/12/20 19:45*	*10/13/20 11:02*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*10/12/20 19:45*	*10/13/20 11:02*	*50*

Lab Sample ID: LCS 500-566160/22-A
Matrix: Solid
Analysis Batch: 566182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2680		ug/Kg		107	70 - 120
Bromobenzene	2500	2850		ug/Kg		114	70 - 122
Bromochloromethane	2500	2910		ug/Kg		117	65 - 122
Bromodichloromethane	2500	2660		ug/Kg		106	69 - 120
Bromoform	2500	2990		ug/Kg		119	56 - 132
Bromomethane	2500	1770		ug/Kg		71	40 - 152
Carbon tetrachloride	2500	2580		ug/Kg		103	59 - 133
Chlorobenzene	2500	2880		ug/Kg		115	70 - 120
Chloroethane	2500	2030		ug/Kg		81	48 - 136
Chloroform	2500	2570		ug/Kg		103	70 - 120
Chloromethane	2500	1700		ug/Kg		68	56 - 152
2-Chlorotoluene	2500	2650		ug/Kg		106	70 - 125
4-Chlorotoluene	2500	2660		ug/Kg		107	68 - 124
cis-1,2-Dichloroethene	2500	2720		ug/Kg		109	70 - 125
cis-1,3-Dichloropropene	2500	2590		ug/Kg		104	64 - 127
Dibromochloromethane	2500	2880		ug/Kg		115	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2760		ug/Kg		110	56 - 123
1,2-Dibromoethane	2500	2920		ug/Kg		117	70 - 125
Dibromomethane	2500	2750		ug/Kg		110	70 - 120
1,2-Dichlorobenzene	2500	2860		ug/Kg		114	70 - 125
1,3-Dichlorobenzene	2500	2820		ug/Kg		113	70 - 125
1,4-Dichlorobenzene	2500	2840		ug/Kg		114	70 - 120
Dichlorodifluoromethane	2500	1830		ug/Kg		73	40 - 159
1,1-Dichloroethane	2500	2450		ug/Kg		98	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566160/22-A
Matrix: Solid
Analysis Batch: 566182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2700		ug/Kg		108	68 - 127
1,1-Dichloroethene	2500	2490		ug/Kg		100	67 - 122
1,2-Dichloropropane	2500	2660		ug/Kg		106	67 - 130
1,3-Dichloropropane	2500	2640		ug/Kg		105	62 - 136
2,2-Dichloropropane	2500	2420		ug/Kg		97	58 - 139
1,1-Dichloropropene	2500	2620		ug/Kg		105	70 - 121
Ethylbenzene	2500	2710		ug/Kg		108	70 - 123
Hexachlorobutadiene	2500	2550		ug/Kg		102	51 - 150
Isopropylbenzene	2500	2740		ug/Kg		109	70 - 126
Methylene Chloride	2500	2650		ug/Kg		106	69 - 125
Methyl tert-butyl ether	2500	2400		ug/Kg		96	55 - 123
Naphthalene	2500	2820		ug/Kg		113	53 - 144
n-Butylbenzene	2500	2650		ug/Kg		106	68 - 125
N-Propylbenzene	2500	2710		ug/Kg		109	69 - 127
p-Isopropyltoluene	2500	2870		ug/Kg		115	70 - 125
sec-Butylbenzene	2500	2800		ug/Kg		112	70 - 123
Styrene	2500	3010		ug/Kg		120	70 - 120
tert-Butylbenzene	2500	2910		ug/Kg		116	70 - 121
1,1,1,2-Tetrachloroethane	2500	2730		ug/Kg		109	70 - 125
1,1,2,2-Tetrachloroethane	2500	2680		ug/Kg		107	62 - 140
Tetrachloroethene	2500	2960		ug/Kg		119	70 - 128
Toluene	2500	2840		ug/Kg		113	70 - 125
trans-1,2-Dichloroethene	2500	2630		ug/Kg		105	70 - 125
trans-1,3-Dichloropropene	2500	2600		ug/Kg		104	62 - 128
1,2,3-Trichlorobenzene	2500	2640		ug/Kg		105	51 - 145
1,2,4-Trichlorobenzene	2500	2580		ug/Kg		103	57 - 137
1,1,1-Trichloroethane	2500	2640		ug/Kg		106	70 - 125
1,1,2-Trichloroethane	2500	2890		ug/Kg		116	71 - 130
Trichloroethene	2500	3120		ug/Kg		125	70 - 125
Trichlorofluoromethane	2500	2230		ug/Kg		89	55 - 128
1,2,3-Trichloropropane	2500	3130		ug/Kg		125	50 - 133
1,2,4-Trimethylbenzene	2500	2760		ug/Kg		111	70 - 123
1,3,5-Trimethylbenzene	2500	2790		ug/Kg		112	70 - 123
Vinyl chloride	2500	2130		ug/Kg		85	64 - 126
Xylenes, Total	5000	5240		ug/Kg		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-566181/6
Matrix: Water
Analysis Batch: 566181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/13/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566181/6
Matrix: Water
Analysis Batch: 566181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/13/20 10:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/13/20 10:35	1
Bromoform	<0.48		1.0	0.48	ug/L			10/13/20 10:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			10/13/20 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/13/20 10:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/13/20 10:35	1
Chloroform	<0.37		2.0	0.37	ug/L			10/13/20 10:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/13/20 10:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/13/20 10:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/13/20 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/13/20 10:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/13/20 10:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/13/20 10:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/13/20 10:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/13/20 10:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/13/20 10:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/13/20 10:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/13/20 10:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/13/20 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/13/20 10:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/13/20 10:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/13/20 10:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/13/20 10:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/13/20 10:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/13/20 10:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/13/20 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/13/20 10:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/13/20 10:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/13/20 10:35	1
Styrene	<0.39		1.0	0.39	ug/L			10/13/20 10:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/13/20 10:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/13/20 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/13/20 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/13/20 10:35	1
Toluene	<0.15		0.50	0.15	ug/L			10/13/20 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/13/20 10:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/13/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566181/6
Matrix: Water
Analysis Batch: 566181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/13/20 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/13/20 10:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/13/20 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/13/20 10:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/13/20 10:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/13/20 10:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/13/20 10:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/13/20 10:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/13/20 10:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/13/20 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*10/13/20 10:35*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*10/13/20 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/13/20 10:35*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/13/20 10:35*	*1*

Lab Sample ID: LCS 500-566181/4
Matrix: Water
Analysis Batch: 566181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	43.3		ug/L		87	70 - 120
Bromobenzene	50.0	47.7		ug/L		95	70 - 122
Bromochloromethane	50.0	44.5		ug/L		89	65 - 122
Bromodichloromethane	50.0	42.2		ug/L		84	69 - 120
Bromoform	50.0	48.0		ug/L		96	56 - 132
Bromomethane	50.0	28.6		ug/L		57	40 - 152
Carbon tetrachloride	50.0	40.7		ug/L		81	59 - 133
Chlorobenzene	50.0	46.2		ug/L		92	70 - 120
Chloroethane	50.0	31.0		ug/L		62	48 - 136
Chloroform	50.0	40.3		ug/L		81	70 - 120
Chloromethane	50.0	28.9		ug/L		58	56 - 152
2-Chlorotoluene	50.0	45.3		ug/L		91	70 - 125
4-Chlorotoluene	50.0	45.2		ug/L		90	68 - 124
cis-1,2-Dichloroethene	50.0	42.9		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	43.9		ug/L		88	64 - 127
Dibromochloromethane	50.0	45.2		ug/L		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/L		91	56 - 123
1,2-Dibromoethane	50.0	47.2		ug/L		94	70 - 125
Dibromomethane	50.0	43.1		ug/L		86	70 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 125
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	70 - 125
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 120
Dichlorodifluoromethane	50.0	37.7		ug/L		75	40 - 159
1,1-Dichloroethane	50.0	38.5		ug/L		77	70 - 125
1,2-Dichloroethane	50.0	42.2		ug/L		84	68 - 127
1,1-Dichloroethene	50.0	40.9		ug/L		82	67 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566181/4
Matrix: Water
Analysis Batch: 566181

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	42.8		ug/L		86	67 - 130
1,3-Dichloropropane	50.0	43.8		ug/L		88	62 - 136
2,2-Dichloropropane	50.0	41.6		ug/L		83	58 - 139
1,1-Dichloropropene	50.0	43.6		ug/L		87	70 - 121
Ethylbenzene	50.0	44.6		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	44.4		ug/L		89	51 - 150
Isopropylbenzene	50.0	46.8		ug/L		94	70 - 126
Methylene Chloride	50.0	41.1		ug/L		82	69 - 125
Methyl tert-butyl ether	50.0	37.8		ug/L		76	55 - 123
Naphthalene	50.0	47.8		ug/L		96	53 - 144
n-Butylbenzene	50.0	44.9		ug/L		90	68 - 125
N-Propylbenzene	50.0	46.1		ug/L		92	69 - 127
p-Isopropyltoluene	50.0	47.5		ug/L		95	70 - 125
sec-Butylbenzene	50.0	46.7		ug/L		93	70 - 123
Styrene	50.0	46.8		ug/L		94	70 - 120
tert-Butylbenzene	50.0	48.3		ug/L		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.0		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.3		ug/L		89	62 - 140
Tetrachloroethene	50.0	49.7		ug/L		99	70 - 128
Toluene	50.0	46.4		ug/L		93	70 - 125
trans-1,2-Dichloroethene	50.0	41.9		ug/L		84	70 - 125
trans-1,3-Dichloropropene	50.0	43.8		ug/L		88	62 - 128
1,2,3-Trichlorobenzene	50.0	45.5		ug/L		91	51 - 145
1,2,4-Trichlorobenzene	50.0	45.5		ug/L		91	57 - 137
1,1,1-Trichloroethane	50.0	41.0		ug/L		82	70 - 125
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	71 - 130
Trichloroethene	50.0	49.1		ug/L		98	70 - 125
Trichlorofluoromethane	50.0	35.1		ug/L		70	55 - 128
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	50 - 133
1,2,4-Trimethylbenzene	50.0	46.2		ug/L		92	70 - 123
1,3,5-Trimethylbenzene	50.0	46.7		ug/L		93	70 - 123
Vinyl chloride	50.0	36.8		ug/L		74	64 - 126
Xylenes, Total	100	85.6		ug/L		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-566182/6
Matrix: Solid
Analysis Batch: 566182

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			10/13/20 10:35	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			10/13/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566182/6
Matrix: Solid
Analysis Batch: 566182

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			10/13/20 10:35	1
Bromoform	<0.48		1.0	0.48	ug/Kg			10/13/20 10:35	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			10/13/20 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			10/13/20 10:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			10/13/20 10:35	1
Chloroform	<0.37		2.0	0.37	ug/Kg			10/13/20 10:35	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			10/13/20 10:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			10/13/20 10:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			10/13/20 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			10/13/20 10:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			10/13/20 10:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			10/13/20 10:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			10/13/20 10:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			10/13/20 10:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			10/13/20 10:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			10/13/20 10:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			10/13/20 10:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			10/13/20 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			10/13/20 10:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			10/13/20 10:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			10/13/20 10:35	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			10/13/20 10:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			10/13/20 10:35	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			10/13/20 10:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			10/13/20 10:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			10/13/20 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			10/13/20 10:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			10/13/20 10:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/13/20 10:35	1
Styrene	<0.39		1.0	0.39	ug/Kg			10/13/20 10:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			10/13/20 10:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			10/13/20 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			10/13/20 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			10/13/20 10:35	1
Toluene	<0.15		0.25	0.15	ug/Kg			10/13/20 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			10/13/20 10:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			10/13/20 10:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			10/13/20 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			10/13/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566182/6
Matrix: Solid
Analysis Batch: 566182

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			10/13/20 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			10/13/20 10:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			10/13/20 10:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			10/13/20 10:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			10/13/20 10:35	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			10/13/20 10:35	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			10/13/20 10:35	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			10/13/20 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*10/13/20 10:35*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*10/13/20 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*10/13/20 10:35*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*10/13/20 10:35*	*1*

Lab Sample ID: LCS 500-566182/4
Matrix: Solid
Analysis Batch: 566182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	43.3		ug/Kg		87	70 - 120
Bromobenzene	50.0	47.7		ug/Kg		95	70 - 122
Bromochloromethane	50.0	44.5		ug/Kg		89	65 - 122
Bromodichloromethane	50.0	42.2		ug/Kg		84	69 - 120
Bromoform	50.0	48.0		ug/Kg		96	56 - 132
Bromomethane	50.0	28.6		ug/Kg		57	40 - 152
Carbon tetrachloride	50.0	40.7		ug/Kg		81	59 - 133
Chlorobenzene	50.0	46.2		ug/Kg		92	70 - 120
Chloroethane	50.0	31.0		ug/Kg		62	48 - 136
Chloroform	50.0	40.3		ug/Kg		81	70 - 120
Chloromethane	50.0	28.9		ug/Kg		58	56 - 152
2-Chlorotoluene	50.0	45.3		ug/Kg		91	70 - 125
4-Chlorotoluene	50.0	45.2		ug/Kg		90	68 - 124
cis-1,2-Dichloroethene	50.0	42.9		ug/Kg		86	70 - 125
cis-1,3-Dichloropropene	50.0	43.9		ug/Kg		88	64 - 127
Dibromochloromethane	50.0	45.2		ug/Kg		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	45.3		ug/Kg		91	56 - 123
1,2-Dibromoethane	50.0	47.2		ug/Kg		94	70 - 125
Dibromomethane	50.0	43.1		ug/Kg		86	70 - 120
1,2-Dichlorobenzene	50.0	45.7		ug/Kg		91	70 - 125
1,3-Dichlorobenzene	50.0	47.0		ug/Kg		94	70 - 125
1,4-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 120
Dichlorodifluoromethane	50.0	37.7		ug/Kg		75	40 - 159
1,1-Dichloroethane	50.0	38.5		ug/Kg		77	70 - 125
1,2-Dichloroethane	50.0	42.2		ug/Kg		84	68 - 127
1,1-Dichloroethene	50.0	40.9		ug/Kg		82	67 - 122
1,2-Dichloropropane	50.0	42.8		ug/Kg		86	67 - 130
1,3-Dichloropropane	50.0	43.8		ug/Kg		88	62 - 136

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566182/4
Matrix: Solid
Analysis Batch: 566182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	41.6		ug/Kg		83	58 - 139
1,1-Dichloropropene	50.0	43.6		ug/Kg		87	70 - 121
Ethylbenzene	50.0	44.6		ug/Kg		89	70 - 123
Hexachlorobutadiene	50.0	44.4		ug/Kg		89	51 - 150
Isopropylbenzene	50.0	46.8		ug/Kg		94	70 - 126
Methylene Chloride	50.0	41.1		ug/Kg		82	69 - 125
Methyl tert-butyl ether	50.0	37.8		ug/Kg		76	55 - 123
Naphthalene	50.0	47.8		ug/Kg		96	53 - 144
n-Butylbenzene	50.0	44.9		ug/Kg		90	68 - 125
N-Propylbenzene	50.0	46.1		ug/Kg		92	69 - 127
p-Isopropyltoluene	50.0	47.5		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 123
Styrene	50.0	46.8		ug/Kg		94	70 - 120
tert-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	42.0		ug/Kg		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	44.3		ug/Kg		89	62 - 140
Tetrachloroethene	50.0	49.7		ug/Kg		99	70 - 128
Toluene	50.0	46.4		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	41.9		ug/Kg		84	70 - 125
trans-1,3-Dichloropropene	50.0	43.8		ug/Kg		88	62 - 128
1,2,3-Trichlorobenzene	50.0	45.5		ug/Kg		91	51 - 145
1,2,4-Trichlorobenzene	50.0	45.5		ug/Kg		91	57 - 137
1,1,1-Trichloroethane	50.0	41.0		ug/Kg		82	70 - 125
1,1,2-Trichloroethane	50.0	47.3		ug/Kg		95	71 - 130
Trichloroethene	50.0	49.1		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	35.1		ug/Kg		70	55 - 128
1,2,3-Trichloropropane	50.0	51.6		ug/Kg		103	50 - 133
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
1,3,5-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 123
Vinyl chloride	50.0	36.8		ug/Kg		74	64 - 126
Xylenes, Total	100	85.6		ug/Kg		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: MB 500-566424/6
Matrix: Water
Analysis Batch: 566424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			10/14/20 11:29	1
Bromobenzene	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			10/14/20 11:29	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			10/14/20 11:29	1
Bromoform	<0.48		1.0	0.48	ug/L			10/14/20 11:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566424/6
Matrix: Water
Analysis Batch: 566424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.80		3.0	0.80	ug/L			10/14/20 11:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			10/14/20 11:29	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
Chloroethane	<0.51		1.0	0.51	ug/L			10/14/20 11:29	1
Chloroform	<0.37		2.0	0.37	ug/L			10/14/20 11:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			10/14/20 11:29	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			10/14/20 11:29	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			10/14/20 11:29	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			10/14/20 11:29	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			10/14/20 11:29	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			10/14/20 11:29	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			10/14/20 11:29	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
Dibromomethane	<0.27		1.0	0.27	ug/L			10/14/20 11:29	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			10/14/20 11:29	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			10/14/20 11:29	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			10/14/20 11:29	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			10/14/20 11:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			10/14/20 11:29	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			10/14/20 11:29	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			10/14/20 11:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			10/14/20 11:29	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			10/14/20 11:29	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			10/14/20 11:29	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			10/14/20 11:29	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
Naphthalene	<0.34		1.0	0.34	ug/L			10/14/20 11:29	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			10/14/20 11:29	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/20 11:29	1
Styrene	<0.39		1.0	0.39	ug/L			10/14/20 11:29	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			10/14/20 11:29	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			10/14/20 11:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/14/20 11:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			10/14/20 11:29	1
Toluene	<0.15		0.50	0.15	ug/L			10/14/20 11:29	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			10/14/20 11:29	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			10/14/20 11:29	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			10/14/20 11:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			10/14/20 11:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			10/14/20 11:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			10/14/20 11:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566424/6
Matrix: Water
Analysis Batch: 566424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			10/14/20 11:29	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			10/14/20 11:29	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			10/14/20 11:29	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			10/14/20 11:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/14/20 11:29	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			10/14/20 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*10/14/20 11:29*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*10/14/20 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*10/14/20 11:29*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*10/14/20 11:29*	*1*

Lab Sample ID: LCS 500-566424/4
Matrix: Water
Analysis Batch: 566424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	42.8		ug/L		86	70 - 120
Bromobenzene	50.0	44.7		ug/L		89	70 - 122
Bromochloromethane	50.0	47.2		ug/L		94	65 - 122
Bromodichloromethane	50.0	42.3		ug/L		85	69 - 120
Bromoform	50.0	47.4		ug/L		95	56 - 132
Bromomethane	50.0	33.0		ug/L		66	40 - 152
Carbon tetrachloride	50.0	42.1		ug/L		84	59 - 133
Chlorobenzene	50.0	47.1		ug/L		94	70 - 120
Chloroethane	50.0	40.8		ug/L		82	48 - 136
Chloroform	50.0	41.0		ug/L		82	70 - 120
Chloromethane	50.0	35.3		ug/L		71	56 - 152
2-Chlorotoluene	50.0	41.5		ug/L		83	70 - 125
4-Chlorotoluene	50.0	43.0		ug/L		86	68 - 124
cis-1,2-Dichloroethene	50.0	43.3		ug/L		87	70 - 125
cis-1,3-Dichloropropene	50.0	40.9		ug/L		82	64 - 127
Dibromochloromethane	50.0	46.4		ug/L		93	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	40.8		ug/L		82	56 - 123
1,2-Dibromoethane	50.0	46.3		ug/L		93	70 - 125
Dibromomethane	50.0	43.8		ug/L		88	70 - 120
1,2-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 125
1,3-Dichlorobenzene	50.0	45.5		ug/L		91	70 - 125
1,4-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 120
Dichlorodifluoromethane	50.0	45.9		ug/L		92	40 - 159
1,1-Dichloroethane	50.0	39.5		ug/L		79	70 - 125
1,2-Dichloroethane	50.0	43.2		ug/L		86	68 - 127
1,1-Dichloroethene	50.0	41.8		ug/L		84	67 - 122
1,2-Dichloropropane	50.0	42.8		ug/L		86	67 - 130
1,3-Dichloropropane	50.0	41.9		ug/L		84	62 - 136
2,2-Dichloropropane	50.0	38.7		ug/L		77	58 - 139
1,1-Dichloropropene	50.0	42.3		ug/L		85	70 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566424/4
Matrix: Water
Analysis Batch: 566424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	43.8		ug/L		88	70 - 123
Hexachlorobutadiene	50.0	39.2		ug/L		78	51 - 150
Isopropylbenzene	50.0	42.5		ug/L		85	70 - 126
Methylene Chloride	50.0	42.5		ug/L		85	69 - 125
Methyl tert-butyl ether	50.0	36.2		ug/L		72	55 - 123
Naphthalene	50.0	41.4		ug/L		83	53 - 144
n-Butylbenzene	50.0	43.4		ug/L		87	68 - 125
N-Propylbenzene	50.0	43.1		ug/L		86	69 - 127
p-Isopropyltoluene	50.0	46.0		ug/L		92	70 - 125
sec-Butylbenzene	50.0	44.3		ug/L		89	70 - 123
Styrene	50.0	49.3		ug/L		99	70 - 120
tert-Butylbenzene	50.0	45.3		ug/L		91	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.0		ug/L		88	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.9		ug/L		82	62 - 140
Tetrachloroethene	50.0	49.1		ug/L		98	70 - 128
Toluene	50.0	45.6		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	43.6		ug/L		87	70 - 125
trans-1,3-Dichloropropene	50.0	41.3		ug/L		83	62 - 128
1,2,3-Trichlorobenzene	50.0	40.3		ug/L		81	51 - 145
1,2,4-Trichlorobenzene	50.0	39.8		ug/L		80	57 - 137
1,1,1-Trichloroethane	50.0	42.5		ug/L		85	70 - 125
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	71 - 130
Trichloroethene	50.0	50.6		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	41.0		ug/L		82	55 - 128
1,2,3-Trichloropropane	50.0	49.2		ug/L		98	50 - 133
1,2,4-Trimethylbenzene	50.0	43.9		ug/L		88	70 - 123
1,3,5-Trimethylbenzene	50.0	44.2		ug/L		88	70 - 123
Vinyl chloride	50.0	40.7		ug/L		81	64 - 126
Xylenes, Total	100	84.2		ug/L		84	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-564790/1-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		10/05/20 06:19	10/06/20 00:45	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		10/05/20 06:19	10/06/20 00:45	1
Anthracene	<0.27		0.80	0.27	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		10/05/20 06:19	10/06/20 00:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564790/1-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzoic acid	<4.6		16	4.6	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		10/05/20 06:19	10/06/20 00:45	1
Benzyl alcohol	<4.8		16	4.8	ug/L		10/05/20 06:19	10/06/20 00:45	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		10/05/20 06:19	10/06/20 00:45	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		10/05/20 06:19	10/06/20 00:45	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		10/05/20 06:19	10/06/20 00:45	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		10/05/20 06:19	10/06/20 00:45	1
Carbazole	<0.28		4.0	0.28	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		10/05/20 06:19	10/06/20 00:45	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L		10/05/20 06:19	10/06/20 00:45	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L		10/05/20 06:19	10/06/20 00:45	1
Chrysene	<0.055		0.16	0.055	ug/L		10/05/20 06:19	10/06/20 00:45	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		10/05/20 06:19	10/06/20 00:45	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		10/05/20 06:19	10/06/20 00:45	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L		10/05/20 06:19	10/06/20 00:45	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/05/20 06:19	10/06/20 00:45	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L		10/05/20 06:19	10/06/20 00:45	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		10/05/20 06:19	10/06/20 00:45	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 00:45	1
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		10/05/20 06:19	10/06/20 00:45	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		10/05/20 06:19	10/06/20 00:45	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		10/05/20 06:19	10/06/20 00:45	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		10/05/20 06:19	10/06/20 00:45	1
Fluoranthene	<0.36		0.80	0.36	ug/L		10/05/20 06:19	10/06/20 00:45	1
Fluorene	<0.20		0.80	0.20	ug/L		10/05/20 06:19	10/06/20 00:45	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		10/05/20 06:19	10/06/20 00:45	1
Hexachlorobutadiene	<0.41		4.0	0.41	ug/L		10/05/20 06:19	10/06/20 00:45	1
Hexachlorocyclopentadiene	<5.1		16	5.1	ug/L		10/05/20 06:19	10/06/20 00:45	1
Hexachloroethane	<0.48		4.0	0.48	ug/L		10/05/20 06:19	10/06/20 00:45	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		10/05/20 06:19	10/06/20 00:45	1
Isophorone	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 00:45	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		10/05/20 06:19	10/06/20 00:45	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		10/05/20 06:19	10/06/20 00:45	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		10/05/20 06:19	10/06/20 00:45	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		10/05/20 06:19	10/06/20 00:45	1
Naphthalene	<0.25		0.80	0.25	ug/L		10/05/20 06:19	10/06/20 00:45	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		10/05/20 06:19	10/06/20 00:45	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		10/05/20 06:19	10/06/20 00:45	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		10/05/20 06:19	10/06/20 00:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-564790/1-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<2.0		8.0	2.0	ug/L		10/05/20 06:19	10/06/20 00:45	1
4-Nitrophenol	<5.9		16	5.9	ug/L		10/05/20 06:19	10/06/20 00:45	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		10/05/20 06:19	10/06/20 00:45	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		10/05/20 06:19	10/06/20 00:45	1
Pentachlorophenol	<3.2		16	3.2	ug/L		10/05/20 06:19	10/06/20 00:45	1
Phenanthrene	<0.24		0.80	0.24	ug/L		10/05/20 06:19	10/06/20 00:45	1
Phenol	<0.54		4.0	0.54	ug/L		10/05/20 06:19	10/06/20 00:45	1
Pyrene	<0.34		0.80	0.34	ug/L		10/05/20 06:19	10/06/20 00:45	1
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		10/05/20 06:19	10/06/20 00:45	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		10/05/20 06:19	10/06/20 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*34 - 110*	*10/05/20 06:19*	*10/06/20 00:45*	*1*
2-Fluorophenol (Surr)	*63*		*27 - 110*	*10/05/20 06:19*	*10/06/20 00:45*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*10/05/20 06:19*	*10/06/20 00:45*	*1*
Phenol-d5 (Surr)	*47*		*20 - 110*	*10/05/20 06:19*	*10/06/20 00:45*	*1*
Terphenyl-d14 (Surr)	*106*		*40 - 145*	*10/05/20 06:19*	*10/06/20 00:45*	*1*
2,4,6-Tribromophenol (Surr)	*109*		*40 - 145*	*10/05/20 06:19*	*10/06/20 00:45*	*1*

Lab Sample ID: LCS 500-564790/2-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	30.3		ug/L		95	46 - 110
Acenaphthylene	32.0	29.7		ug/L		93	47 - 113
Anthracene	32.0	34.1		ug/L		107	67 - 118
Benzo[a]anthracene	32.0	36.8		ug/L		115	70 - 126
Benzo[a]pyrene	32.0	37.8		ug/L		118	70 - 135
Benzo[b]fluoranthene	32.0	43.2		ug/L		135	69 - 136
Benzo[g,h,i]perylene	32.0	40.9		ug/L		128	70 - 135
Benzoic acid	64.0	45.5		ug/L		71	10 - 112
Benzo[k]fluoranthene	32.0	42.6		ug/L		133	70 - 133
Benzyl alcohol	32.0	30.3		ug/L		95	46 - 132
Bis(2-chloroethoxy)methane	32.0	31.9		ug/L		100	59 - 118
Bis(2-chloroethyl)ether	32.0	29.7		ug/L		93	54 - 112
Bis(2-ethylhexyl) phthalate	32.0	38.3		ug/L		120	69 - 136
4-Bromophenyl phenyl ether	32.0	32.8		ug/L		102	58 - 120
Butyl benzyl phthalate	32.0	37.6		ug/L		118	68 - 135
Carbazole	32.0	35.0		ug/L		110	61 - 145
4-Chloroaniline	32.0	30.3		ug/L		95	35 - 128
4-Chloro-3-methylphenol	32.0	34.4		ug/L		108	64 - 128
2-Chloronaphthalene	32.0	27.4		ug/L		86	39 - 110
2-Chlorophenol	32.0	29.0		ug/L		91	59 - 110
4-Chlorophenyl phenyl ether	32.0	31.8		ug/L		99	48 - 116
Chrysene	32.0	37.1		ug/L		116	68 - 129

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564790/2-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	32.0	42.9		ug/L		134	70 - 134
Dibenzofuran	32.0	30.8		ug/L		96	51 - 110
1,2-Dichlorobenzene	32.0	21.6		ug/L		68	26 - 110
1,3-Dichlorobenzene	32.0	20.0		ug/L		62	22 - 110
1,4-Dichlorobenzene	32.0	20.2		ug/L		63	23 - 110
3,3'-Dichlorobenzidine	32.0	33.0		ug/L		103	60 - 132
2,4-Dichlorophenol	32.0	34.1		ug/L		106	58 - 120
Diethyl phthalate	32.0	37.6		ug/L		117	62 - 123
2,4-Dimethylphenol	32.0	23.3		ug/L		73	51 - 115
Dimethyl phthalate	32.0	36.4		ug/L		114	63 - 122
Di-n-butyl phthalate	32.0	37.7		ug/L		118	69 - 129
4,6-Dinitro-2-methylphenol	64.0	76.8		ug/L		120	50 - 129
2,4-Dinitrophenol	64.0	80.2		ug/L		125	37 - 130
2,4-Dinitrotoluene	32.0	40.2		ug/L		126	63 - 129
2,6-Dinitrotoluene	32.0	39.0		ug/L		122	63 - 129
Di-n-octyl phthalate	32.0	46.4	*	ug/L		145	68 - 137
Fluoranthene	32.0	39.2		ug/L		122	68 - 126
Fluorene	32.0	32.3		ug/L		101	53 - 120
Hexachlorobenzene	32.0	33.6		ug/L		105	61 - 126
Hexachlorobutadiene	32.0	20.9		ug/L		65	20 - 100
Hexachlorocyclopentadiene	32.0	21.5		ug/L		67	10 - 105
Hexachloroethane	32.0	19.3		ug/L		60	20 - 100
Indeno[1,2,3-cd]pyrene	32.0	43.3	*	ug/L		135	65 - 133
Isophorone	32.0	32.5		ug/L		102	54 - 127
1-Methylnaphthalene	32.0	27.3		ug/L		85	38 - 110
2-Methylnaphthalene	32.0	26.3		ug/L		82	34 - 110
2-Methylphenol	32.0	28.2		ug/L		88	53 - 115
3 & 4 Methylphenol	32.0	31.0		ug/L		97	50 - 116
Naphthalene	32.0	25.2		ug/L		79	36 - 110
2-Nitroaniline	32.0	32.4		ug/L		101	59 - 138
3-Nitroaniline	32.0	29.0		ug/L		91	47 - 123
4-Nitroaniline	32.0	24.7		ug/L		77	35 - 110
Nitrobenzene	32.0	29.7		ug/L		93	54 - 121
2-Nitrophenol	32.0	35.0		ug/L		109	59 - 115
4-Nitrophenol	64.0	48.1		ug/L		75	20 - 110
N-Nitrosodi-n-propylamine	32.0	30.8		ug/L		96	47 - 131
N-Nitrosodiphenylamine	32.0	33.5		ug/L		105	66 - 120
2,2'-oxybis[1-chloropropane]	32.0	23.0		ug/L		72	38 - 140
Pentachlorophenol	64.0	72.9		ug/L		114	42 - 148
Phenanthrene	32.0	33.1		ug/L		103	65 - 120
Phenol	32.0	21.3		ug/L		67	33 - 100
Pyrene	32.0	33.6		ug/L		105	70 - 126
1,2,4-Trichlorobenzene	32.0	22.8		ug/L		71	26 - 110
2,4,5-Trichlorophenol	32.0	36.2		ug/L		113	63 - 124
2,4,6-Trichlorophenol	32.0	35.5		ug/L		111	62 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*34 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-564790/2-A
Matrix: Water
Analysis Batch: 564999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564790

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	65		27 - 110
Nitrobenzene-d5 (Surr)	84		36 - 120
Phenol-d5 (Surr)	58		20 - 110
Terphenyl-d14 (Surr)	106		40 - 145
2,4,6-Tribromophenol (Surr)	121		40 - 145

Lab Sample ID: MB 500-566391/1-A
Matrix: Solid
Analysis Batch: 566472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Anthracene	<5.6		33	5.6	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzoic acid	<330		1700	330	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Benzyl alcohol	<330		670	330	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Bis(2-chloroethoxy)methane	<34		170	34	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Bis(2-chloroethyl)ether	<50		170	50	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Bis(2-ethylhexyl) phthalate	<61		170	61	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Bromophenyl phenyl ether	<44		170	44	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Butyl benzyl phthalate	<63		170	63	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Carbazole	<83		170	83	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Chloroaniline	<160		670	160	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Chloro-3-methylphenol	<110		330	110	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Chloronaphthalene	<37		170	37	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Chlorophenol	<57		170	57	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Chlorophenyl phenyl ether	<39		170	39	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Chrysene	<9.1		33	9.1	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Dibenzofuran	<39		170	39	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
1,2-Dichlorobenzene	<40		170	40	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
1,3-Dichlorobenzene	<37		170	37	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
1,4-Dichlorobenzene	<43		170	43	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
3,3'-Dichlorobenzidine	<47		170	47	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4-Dichlorophenol	<79		330	79	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Diethyl phthalate	<56		170	56	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4-Dimethylphenol	<130		330	130	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Dimethyl phthalate	<43		170	43	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Di-n-butyl phthalate	<51		170	51	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4,6-Dinitro-2-methylphenol	<270		670	270	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4-Dinitrophenol	<590		670	590	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4-Dinitrotoluene	<53		170	53	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,6-Dinitrotoluene	<65		170	65	ug/Kg		10/13/20 21:32	10/14/20 11:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-566391/1-A
Matrix: Solid
Analysis Batch: 566472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<54		170	54	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Fluorene	<4.7		33	4.7	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Hexachlorobenzene	<7.7		67	7.7	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Hexachlorobutadiene	<52		170	52	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Hexachlorocyclopentadiene	<190		670	190	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Hexachloroethane	<51		170	51	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Isophorone	<37		170	37	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Methylphenol	<53		170	53	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
3 & 4 Methylphenol	<55		170	55	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Nitroaniline	<45		170	45	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
3-Nitroaniline	<100		330	100	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Nitroaniline	<140		330	140	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Nitrobenzene	<8.3		33	8.3	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2-Nitrophenol	<79		330	79	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
4-Nitrophenol	<320		670	320	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
N-Nitrosodi-n-propylamine	<41		67	41	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
N-Nitrosodiphenylamine	<39		170	39	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,2'-oxybis[1-chloropropane]	<39		170	39	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Pentachlorophenol	<530		670	530	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Phenol	<74		170	74	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
Pyrene	<6.6		33	6.6	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
1,2,4-Trichlorobenzene	<36		170	36	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4,5-Trichlorophenol	<76		330	76	ug/Kg		10/13/20 21:32	10/14/20 11:21	1
2,4,6-Trichlorophenol	<110		330	110	ug/Kg		10/13/20 21:32	10/14/20 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*	*10/13/20 21:32*	*10/14/20 11:21*	*1*
2-Fluorophenol (Surr)	*93*		*31 - 166*	*10/13/20 21:32*	*10/14/20 11:21*	*1*
Nitrobenzene-d5 (Surr)	*104*		*37 - 147*	*10/13/20 21:32*	*10/14/20 11:21*	*1*
Phenol-d5 (Surr)	*85*		*30 - 153*	*10/13/20 21:32*	*10/14/20 11:21*	*1*
Terphenyl-d14 (Surr)	*114*		*42 - 157*	*10/13/20 21:32*	*10/14/20 11:21*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*31 - 143*	*10/13/20 21:32*	*10/14/20 11:21*	*1*

Lab Sample ID: LCS 500-566391/2-A
Matrix: Solid
Analysis Batch: 566472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1330	1530		ug/Kg		115	65 - 124
Acenaphthylene	1330	1370		ug/Kg		102	68 - 120
Anthracene	1330	1360		ug/Kg		102	70 - 114
Benzo[a]anthracene	1330	1310		ug/Kg		98	67 - 122

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566391/2-A
Matrix: Solid
Analysis Batch: 566472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	1330	1410		ug/Kg		106	65 - 133
Benzo[b]fluoranthene	1330	1520		ug/Kg		114	69 - 129
Benzo[g,h,i]perylene	1330	1490		ug/Kg		111	72 - 131
Benzoic acid	2670	782	J	ug/Kg		29	10 - 100
Benzo[k]fluoranthene	1330	1370		ug/Kg		103	68 - 127
Benzyl alcohol	1330	1210		ug/Kg		91	21 - 139
Bis(2-chloroethoxy)methane	1330	1300		ug/Kg		97	60 - 112
Bis(2-chloroethyl)ether	1330	1110		ug/Kg		83	55 - 111
Bis(2-ethylhexyl) phthalate	1330	1460		ug/Kg		109	72 - 131
4-Bromophenyl phenyl ether	1330	1310		ug/Kg		98	68 - 118
Butyl benzyl phthalate	1330	1400		ug/Kg		105	71 - 129
Carbazole	1330	1400		ug/Kg		105	65 - 142
4-Chloroaniline	1330	1230		ug/Kg		92	30 - 150
4-Chloro-3-methylphenol	1330	1320		ug/Kg		99	65 - 122
2-Chloronaphthalene	1330	1340		ug/Kg		100	69 - 114
2-Chlorophenol	1330	1350		ug/Kg		101	64 - 110
4-Chlorophenyl phenyl ether	1330	1360		ug/Kg		102	62 - 119
Chrysene	1330	1360		ug/Kg		102	63 - 120
Dibenz(a,h)anthracene	1330	1490		ug/Kg		112	64 - 131
Dibenzofuran	1330	1300		ug/Kg		98	66 - 115
1,2-Dichlorobenzene	1330	1270		ug/Kg		95	62 - 110
1,3-Dichlorobenzene	1330	1210		ug/Kg		91	65 - 124
1,4-Dichlorobenzene	1330	1240		ug/Kg		93	61 - 110
3,3'-Dichlorobenzidine	1330	1200		ug/Kg		90	35 - 128
2,4-Dichlorophenol	1330	1300		ug/Kg		97	58 - 120
Diethyl phthalate	1330	1390		ug/Kg		104	58 - 120
2,4-Dimethylphenol	1330	1300		ug/Kg		97	60 - 110
Dimethyl phthalate	1330	1310		ug/Kg		98	69 - 116
Di-n-butyl phthalate	1330	1350		ug/Kg		101	65 - 120
4,6-Dinitro-2-methylphenol	2670	858		ug/Kg		32	10 - 110
2,4-Dinitrophenol	2670	<590		ug/Kg		11	10 - 100
2,4-Dinitrotoluene	1330	1270		ug/Kg		95	69 - 124
2,6-Dinitrotoluene	1330	1380		ug/Kg		103	70 - 123
Di-n-octyl phthalate	1330	1300		ug/Kg		98	68 - 134
Fluoranthene	1330	1320		ug/Kg		99	62 - 120
Fluorene	1330	1380		ug/Kg		104	62 - 120
Hexachlorobenzene	1330	1390		ug/Kg		104	63 - 124
Hexachlorobutadiene	1330	1310		ug/Kg		98	56 - 120
Hexachlorocyclopentadiene	1330	1090		ug/Kg		82	10 - 133
Hexachloroethane	1330	1240		ug/Kg		93	60 - 114
Indeno[1,2,3-cd]pyrene	1330	1470		ug/Kg		111	68 - 130
Isophorone	1330	1320		ug/Kg		99	55 - 110
1-Methylnaphthalene	1330	1300		ug/Kg		98	68 - 111
2-Methylnaphthalene	1330	1570	*	ug/Kg		118	69 - 112
2-Methylphenol	1330	1300		ug/Kg		97	60 - 120
3 & 4 Methylphenol	1330	1190		ug/Kg		89	57 - 120
Naphthalene	1330	1290		ug/Kg		96	63 - 110
2-Nitroaniline	1330	1320		ug/Kg		99	57 - 124
3-Nitroaniline	1330	1280		ug/Kg		96	40 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566391/2-A
Matrix: Solid
Analysis Batch: 566472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	1330	1190		ug/Kg		89	60 - 160
Nitrobenzene	1330	1300		ug/Kg		97	60 - 116
2-Nitrophenol	1330	1260		ug/Kg		95	60 - 120
4-Nitrophenol	2670	2700		ug/Kg		101	30 - 122
N-Nitrosodi-n-propylamine	1330	1210		ug/Kg		90	56 - 118
N-Nitrosodiphenylamine	1330	1370		ug/Kg		102	65 - 112
2,2'-oxybis[1-chloropropane]	1330	1270		ug/Kg		95	40 - 124
Pentachlorophenol	2670	1410		ug/Kg		53	13 - 112
Phenanthrene	1330	1330		ug/Kg		99	62 - 120
Phenol	1330	1180		ug/Kg		89	56 - 122
Pyrene	1330	1390		ug/Kg		104	61 - 128
1,2,4-Trichlorobenzene	1330	1300		ug/Kg		97	66 - 117
2,4,5-Trichlorophenol	1330	1270		ug/Kg		95	50 - 120
2,4,6-Trichlorophenol	1330	1330		ug/Kg		99	57 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*
2-Fluorophenol (Surr)	*96*		*31 - 166*
Nitrobenzene-d5 (Surr)	*109*		*37 - 147*
Phenol-d5 (Surr)	*87*		*30 - 153*
Terphenyl-d14 (Surr)	*103*		*42 - 157*
2,4,6-Tribromophenol (Surr)	*96*		*31 - 143*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-566160/21-A
Matrix: Solid
Analysis Batch: 566341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566160

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.75		1.5	0.75	mg/Kg		10/12/20 19:45	10/13/20 19:09	50

Lab Sample ID: LCS 500-566160/23-A
Matrix: Solid
Analysis Batch: 566341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20.0	22.3		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 500-566160/24-A
Matrix: Solid
Analysis Batch: 566341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 566160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20.0	22.3		mg/Kg		111	80 - 120	0	20

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 500-566343/2
Matrix: Water
Analysis Batch: 566343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.015		0.030	0.015	mg/L			10/14/20 00:22	1

Lab Sample ID: LCS 500-566343/3
Matrix: Water
Analysis Batch: 566343

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Gasoline Range Organics (C5-C10)			0.400	0.406		mg/L		101	80 - 120		

Lab Sample ID: LCSD 500-566343/6
Matrix: Water
Analysis Batch: 566343

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)			0.400	0.405		mg/L		101	80 - 120	0	20

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-565341/1-A
Matrix: Water
Analysis Batch: 565481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0053		0.040	0.0053	ug/L		10/07/20 08:54	10/08/20 02:35	1
alpha-BHC	<0.0026		0.040	0.0026	ug/L		10/07/20 08:54	10/08/20 02:35	1
beta-BHC	<0.010		0.040	0.010	ug/L		10/07/20 08:54	10/08/20 02:35	1
cis-Chlordane	<0.0044		0.040	0.0044	ug/L		10/07/20 08:54	10/08/20 02:35	1
4,4'-DDD	<0.013		0.040	0.013	ug/L		10/07/20 08:54	10/08/20 02:35	1
4,4'-DDE	<0.0038		0.040	0.0038	ug/L		10/07/20 08:54	10/08/20 02:35	1
4,4'-DDT	<0.0032		0.040	0.0032	ug/L		10/07/20 08:54	10/08/20 02:35	1
delta-BHC	<0.010		0.040	0.010	ug/L		10/07/20 08:54	10/08/20 02:35	1
Dieldrin	<0.013		0.040	0.013	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endosulfan I	<0.0041		0.040	0.0041	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endosulfan II	<0.0028		0.040	0.0028	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endosulfan sulfate	<0.012		0.040	0.012	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endrin	<0.014		0.040	0.014	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endrin aldehyde	<0.0082		0.040	0.0082	ug/L		10/07/20 08:54	10/08/20 02:35	1
Endrin ketone	<0.017		0.040	0.017	ug/L		10/07/20 08:54	10/08/20 02:35	1
gamma-BHC (Lindane)	<0.0056		0.040	0.0056	ug/L		10/07/20 08:54	10/08/20 02:35	1
Heptachlor	<0.014		0.040	0.014	ug/L		10/07/20 08:54	10/08/20 02:35	1
Heptachlor epoxide	<0.014		0.040	0.014	ug/L		10/07/20 08:54	10/08/20 02:35	1
Methoxychlor	<0.023		0.080	0.023	ug/L		10/07/20 08:54	10/08/20 02:35	1
Toxaphene	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 02:35	1
trans-Chlordane	<0.0072		0.040	0.0072	ug/L		10/07/20 08:54	10/08/20 02:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*30 - 130*	*10/07/20 08:54*	*10/08/20 02:35*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 500-565341/1-A
Matrix: Water
Analysis Batch: 565481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565341

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		30 - 120	10/07/20 08:54	10/08/20 02:35	1

Lab Sample ID: LCS 500-565341/2-A
Matrix: Water
Analysis Batch: 565481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.320	0.270		ug/L		84	34 - 120
alpha-BHC	0.320	0.353		ug/L		110	65 - 120
beta-BHC	0.320	0.381		ug/L		119	65 - 120
cis-Chlordane	0.320	0.350		ug/L		109	70 - 120
4,4'-DDD	0.320	0.352		ug/L		110	69 - 124
4,4'-DDE	0.320	0.342		ug/L		107	58 - 122
4,4'-DDT	0.320	0.361		ug/L		113	62 - 127
delta-BHC	0.320	0.355		ug/L		111	70 - 122
Dieldrin	0.320	0.349		ug/L		109	68 - 120
Endosulfan I	0.320	0.219		ug/L		68	35 - 110
Endosulfan II	0.320	0.269		ug/L		84	53 - 110
Endosulfan sulfate	0.320	0.359		ug/L		112	70 - 133
Endrin	0.320	0.355		ug/L		111	60 - 132
Endrin aldehyde	0.320	0.368		ug/L		115	66 - 120
Endrin ketone	0.320	0.354		ug/L		110	63 - 130
gamma-BHC (Lindane)	0.320	0.350		ug/L		109	68 - 120
Heptachlor	0.320	0.285		ug/L		89	40 - 120
Heptachlor epoxide	0.320	0.352		ug/L		110	64 - 120
Methoxychlor	0.320	0.410		ug/L		128	63 - 135
trans-Chlordane	0.320	0.334		ug/L		104	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	74		30 - 130
Tetrachloro-m-xylene	91		30 - 120

Lab Sample ID: LCSD 500-565341/3-A
Matrix: Water
Analysis Batch: 565481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565341

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.320	0.248		ug/L		77	34 - 120	8	20
alpha-BHC	0.320	0.324		ug/L		101	65 - 120	8	20
beta-BHC	0.320	0.347		ug/L		108	65 - 120	9	20
cis-Chlordane	0.320	0.338		ug/L		106	70 - 120	3	20
4,4'-DDD	0.320	0.352		ug/L		110	69 - 124	0	20
4,4'-DDE	0.320	0.328		ug/L		103	58 - 122	4	20
4,4'-DDT	0.320	0.337		ug/L		105	62 - 127	7	20
delta-BHC	0.320	0.364		ug/L		114	70 - 122	3	20
Dieldrin	0.320	0.326		ug/L		102	68 - 120	7	20
Endosulfan I	0.320	0.222		ug/L		69	35 - 110	2	20
Endosulfan II	0.320	0.269		ug/L		84	53 - 110	0	20

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 500-565341/3-A
Matrix: Water
Analysis Batch: 565481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565341

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate			0.320	0.330		ug/L		103	70 - 133	8	20
Endrin			0.320	0.340		ug/L		106	60 - 132	4	20
Endrin aldehyde			0.320	0.334		ug/L		104	66 - 120	9	20
Endrin ketone			0.320	0.328		ug/L		102	63 - 130	8	20
gamma-BHC (Lindane)			0.320	0.333		ug/L		104	68 - 120	5	20
Heptachlor			0.320	0.275		ug/L		86	40 - 120	4	20
Heptachlor epoxide			0.320	0.328		ug/L		102	64 - 120	7	20
Methoxychlor			0.320	0.380		ug/L		119	63 - 135	8	20
trans-Chlordane			0.320	0.317		ug/L		99	58 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*30 - 130*
Tetrachloro-m-xylene	*79*		*30 - 120*

Lab Sample ID: MB 500-566179/1-A
Matrix: Solid
Analysis Batch: 566319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.69		1.7	0.69	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
alpha-BHC	<0.42		1.7	0.42	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
beta-BHC	<0.52		1.7	0.52	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
cis-Chlordane	<0.85		1.7	0.85	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
4,4'-DDD	<0.33		1.7	0.33	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
4,4'-DDE	<0.28		1.7	0.28	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
4,4'-DDT	<0.88		1.7	0.88	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
delta-BHC	<0.53		1.7	0.53	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Dieldrin	<0.23		1.7	0.23	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endosulfan I	<0.73		1.7	0.73	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endosulfan II	<0.27		1.7	0.27	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endosulfan sulfate	<0.31		1.7	0.31	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endrin	<0.23		1.7	0.23	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endrin aldehyde	<0.28		1.7	0.28	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Endrin ketone	<0.38		1.7	0.38	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
gamma-BHC (Lindane)	<0.36		1.7	0.36	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Heptachlor	<0.70		1.7	0.70	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Heptachlor epoxide	<0.59		1.7	0.59	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Methoxychlor	<0.32		8.3	0.32	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
Toxaphene	<7.0		17	7.0	ug/Kg		10/13/20 06:56	10/13/20 19:14	1
trans-Chlordane	<0.44		1.7	0.44	ug/Kg		10/13/20 06:56	10/13/20 19:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*33 - 148*	*10/13/20 06:56*	*10/13/20 19:14*	*1*
Tetrachloro-m-xylene	*89*		*30 - 121*	*10/13/20 06:56*	*10/13/20 19:14*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-566179/2-A
Matrix: Solid
Analysis Batch: 566319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	13.3	11.2		ug/Kg		84	52 - 122
alpha-BHC	13.3	11.0		ug/Kg		83	50 - 123
beta-BHC	13.3	12.1		ug/Kg		91	44 - 140
cis-Chlordane	13.3	11.7		ug/Kg		88	52 - 129
4,4'-DDD	13.3	12.6		ug/Kg		95	47 - 137
4,4'-DDE	13.3	12.6		ug/Kg		94	50 - 130
4,4'-DDT	13.3	12.6		ug/Kg		95	46 - 143
delta-BHC	13.3	12.1		ug/Kg		91	57 - 125
Dieldrin	13.3	12.4		ug/Kg		93	51 - 133
Endosulfan I	13.3	11.9		ug/Kg		89	30 - 120
Endosulfan II	13.3	13.3		ug/Kg		100	30 - 120
Endosulfan sulfate	13.3	12.3		ug/Kg		92	42 - 150
Endrin	13.3	12.5		ug/Kg		94	43 - 144
Endrin aldehyde	13.3	12.3		ug/Kg		92	39 - 131
Endrin ketone	13.3	12.4		ug/Kg		93	51 - 135
gamma-BHC (Lindane)	13.3	11.6		ug/Kg		87	50 - 122
Heptachlor	13.3	11.2		ug/Kg		84	53 - 129
Heptachlor epoxide	13.3	12.3		ug/Kg		92	50 - 139
Methoxychlor	13.3	12.9		ug/Kg		97	45 - 144
trans-Chlordane	13.3	12.4		ug/Kg		93	52 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*114*		*33 - 148*
Tetrachloro-m-xylene	*71*		*30 - 121*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-565341/1-A
Matrix: Water
Analysis Batch: 565474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1221	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1232	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1242	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1248	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1254	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1
PCB-1260	<0.070		0.40	0.070	ug/L		10/07/20 08:54	10/08/20 01:13	1
Polychlorinated biphenyls, Total	<0.20		0.40	0.20	ug/L		10/07/20 08:54	10/08/20 01:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 120*	*10/07/20 08:54*	*10/08/20 01:13*	*1*
DCB Decachlorobiphenyl	*70*		*30 - 140*	*10/07/20 08:54*	*10/08/20 01:13*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-565341/4-A
Matrix: Water
Analysis Batch: 565474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565341

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.23		ug/L		81	56 - 120		
PCB-1260			4.00	3.74		ug/L		93	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*59*		*30 - 120*
DCB Decachlorobiphenyl	*80*		*30 - 140*

Lab Sample ID: LCSD 500-565341/5-A
Matrix: Water
Analysis Batch: 565474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565341

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	3.38		ug/L		85	56 - 120	5	20
PCB-1260			4.00	3.98		ug/L		99	53 - 137	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*30 - 120*
DCB Decachlorobiphenyl	*48*		*30 - 140*

Lab Sample ID: MB 500-566179/1-A
Matrix: Solid
Analysis Batch: 566392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1016	<5.9		17	5.9	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1260	<8.2		17	8.2	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
PCB-1260	<8.2		17	8.2	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		10/13/20 06:56	10/13/20 23:02	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		10/13/20 06:56	10/13/20 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*49 - 129*	*10/13/20 06:56*	*10/13/20 23:02*	*1*
Tetrachloro-m-xylene	*89*		*49 - 129*	*10/13/20 06:56*	*10/13/20 23:02*	*1*
DCB Decachlorobiphenyl	*103*		*37 - 121*	*10/13/20 06:56*	*10/13/20 23:02*	*1*
DCB Decachlorobiphenyl	*108*		*37 - 121*	*10/13/20 06:56*	*10/13/20 23:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-566179/3-A
Matrix: Solid
Analysis Batch: 566392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	169		ug/Kg		102	57 - 120
PCB-1016	167	149		ug/Kg		89	57 - 120
PCB-1260	167	186		ug/Kg		112	61 - 125
PCB-1260	167	180		ug/Kg		108	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*49 - 129*
Tetrachloro-m-xylene	*71*		*49 - 129*
DCB Decachlorobiphenyl	*112*		*37 - 121*
DCB Decachlorobiphenyl	*108*		*37 - 121*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-564839/1-A
Matrix: Water
Analysis Batch: 565250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.47		1.0	0.47	ug/L		10/05/20 08:28	10/07/20 13:11	1
2,4-DB	<0.12		1.0	0.12	ug/L		10/05/20 08:28	10/07/20 13:11	1
Dicamba	<0.077		1.0	0.077	ug/L		10/05/20 08:28	10/07/20 13:11	1
Dichlorprop	<0.37		1.0	0.37	ug/L		10/05/20 08:28	10/07/20 13:11	1
Silvex (2,4,5-TP)	<0.29		1.0	0.29	ug/L		10/05/20 08:28	10/07/20 13:11	1
2,4,5-T	<0.43		1.0	0.43	ug/L		10/05/20 08:28	10/07/20 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*65*		*25 - 130*	*10/05/20 08:28*	*10/07/20 13:11*	*1*

Lab Sample ID: LCS 500-564839/2-A
Matrix: Water
Analysis Batch: 565250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	10.0	9.35		ug/L		93	30 - 115
2,4-DB	10.0	7.69		ug/L		77	35 - 115
Dicamba	5.00	4.62		ug/L		92	43 - 110
Dichlorprop	10.0	8.35		ug/L		83	40 - 110
Silvex (2,4,5-TP)	2.50	2.25		ug/L		90	32 - 115
2,4,5-T	2.50	1.94		ug/L		77	30 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*71*		*25 - 130*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 500-566212/1-A
Matrix: Solid
Analysis Batch: 566628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<94		330	94	ug/Kg		10/13/20 08:05	10/15/20 07:42	10
2,4-DB	<98		330	98	ug/Kg		10/13/20 08:05	10/15/20 07:42	10
Dicamba	<69		330	69	ug/Kg		10/13/20 08:05	10/15/20 07:42	10
Dichlorprop	<90		330	90	ug/Kg		10/13/20 08:05	10/15/20 07:42	10
Silvex (2,4,5-TP)	<85		330	85	ug/Kg		10/13/20 08:05	10/15/20 07:42	10
2,4,5-T	<81		330	81	ug/Kg		10/13/20 08:05	10/15/20 07:42	10

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*48*		*25 - 120*	*10/13/20 08:05*	*10/15/20 07:42*	*10*

Lab Sample ID: LCS 500-566212/2-A
Matrix: Solid
Analysis Batch: 566628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	1350	491		ug/Kg		36	20 - 115
2,4-DB	1350	629		ug/Kg		47	20 - 120
Dicamba	1340	938		ug/Kg		70	25 - 110
Dichlorprop	1340	855		ug/Kg		64	25 - 110
Silvex (2,4,5-TP)	1340	913		ug/Kg		68	29 - 115
2,4,5-T	1340	897		ug/Kg		67	25 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*61*		*25 - 120*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-564670/1-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<0.033		0.10	0.033	mg/L		10/02/20 13:24	10/02/20 23:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*62*		*42 - 111*	*10/02/20 13:24*	*10/02/20 23:07*	*1*

Lab Sample ID: LCS 500-564670/2-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.400	0.357		mg/L		89	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*60*		*42 - 111*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-564670/3-A
Matrix: Water
Analysis Batch: 564733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564670

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			0.400	0.371		mg/L		93	75 - 125	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*73*		*42 - 111*

Lab Sample ID: MB 500-565022/1-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.36	J	4.0	1.6	mg/Kg		10/06/20 05:48	10/07/20 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*93*		*44 - 148*	*10/06/20 05:48*	*10/07/20 11:53*	*1*

Lab Sample ID: LCS 500-565022/2-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	19.9		mg/Kg		99	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*76*		*44 - 148*

Lab Sample ID: LCSD 500-565022/3-A
Matrix: Solid
Analysis Batch: 565359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	20.8		mg/Kg		104	70 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*75*		*44 - 148*

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-418650/1-A
Matrix: Solid
Analysis Batch: 421645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418650

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	<0.047		1.0	0.047	pg/g		10/05/20 07:36	10/14/20 03:32	1
2,3,7,8-TCDF	0.200	J	1.0	0.042	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,7,8-PeCDD	<0.043		5.0	0.043	pg/g		10/05/20 07:36	10/14/20 03:32	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-418650/1-A
Matrix: Solid
Analysis Batch: 421645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418650

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	<0.039		5.0	0.039	pg/g		10/05/20 07:36	10/14/20 03:32	1
2,3,4,7,8-PeCDF	<0.042		5.0	0.042	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,4,7,8-HxCDD	<0.076		5.0	0.076	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,6,7,8-HxCDD	<0.083		5.0	0.083	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,7,8,9-HxCDD	<0.073		5.0	0.073	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,4,7,8-HxCDF	<0.051		5.0	0.051	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,6,7,8-HxCDF	<0.053		5.0	0.053	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,7,8,9-HxCDF	<0.044		5.0	0.044	pg/g		10/05/20 07:36	10/14/20 03:32	1
2,3,4,6,7,8-HxCDF	<0.060		5.0	0.060	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,4,6,7,8-HpCDD	0.0766	J	5.0	0.021	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,4,6,7,8-HpCDF	0.193	J	5.0	0.037	pg/g		10/05/20 07:36	10/14/20 03:32	1
1,2,3,4,7,8,9-HpCDF	<0.037		5.0	0.037	pg/g		10/05/20 07:36	10/14/20 03:32	1
OCDD	0.393	J q	10	0.031	pg/g		10/05/20 07:36	10/14/20 03:32	1
OCDF	0.273	J q	10	0.024	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total TCDD	<0.047		1.0	0.047	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total TCDF	0.288	J	1.0	0.042	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total PeCDD	<0.049		5.0	0.049	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total PeCDF	<0.042		5.0	0.042	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total HxCDD	<0.083		5.0	0.083	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total HxCDF	<0.060		5.0	0.060	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total HpCDD	0.150	J q	5.0	0.021	pg/g		10/05/20 07:36	10/14/20 03:32	1
Total HpCDF	0.193	J	5.0	0.037	pg/g		10/05/20 07:36	10/14/20 03:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*25 - 164*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-2,3,7,8-TCDF	*69*		*24 - 169*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*25 - 181*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,7,8-PeCDF	*67*		*24 - 185*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-2,3,4,7,8-PeCDF	*66*		*21 - 178*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,4,7,8-HxCDD	*77*		*32 - 141*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,6,7,8-HxCDD	*82*		*28 - 130*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,4,7,8-HxCDF	*68*		*26 - 152*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,6,7,8-HxCDF	*69*		*26 - 123*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,7,8,9-HxCDF	*69*		*29 - 147*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-2,3,4,6,7,8-HxCDF	*69*		*28 - 136*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*98*		*23 - 140*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*28 - 143*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*91*		*26 - 138*	*10/05/20 07:36*	*10/14/20 03:32*	*1*
13C-OCDD	*124*		*17 - 157*	*10/05/20 07:36*	*10/14/20 03:32*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*98*		*35 - 197*	*10/05/20 07:36*	*10/14/20 03:32*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-418650/2-A
Matrix: Solid
Analysis Batch: 422071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418650

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			20.0	24.4		pg/g		122	67 - 158		
2,3,7,8-TCDF			20.0	25.8		pg/g		129	75 - 158		
1,2,3,7,8-PeCDD			100	99.5		pg/g		99	70 - 142		
1,2,3,7,8-PeCDF			100	107		pg/g		107	80 - 134		
2,3,4,7,8-PeCDF			100	112		pg/g		112	68 - 160		
1,2,3,4,7,8-HxCDD			100	104		pg/g		104	70 - 164		
1,2,3,6,7,8-HxCDD			100	101		pg/g		101	76 - 134		
1,2,3,7,8,9-HxCDD			100	101		pg/g		101	64 - 162		
1,2,3,4,7,8-HxCDF			100	114		pg/g		114	72 - 134		
1,2,3,6,7,8-HxCDF			100	113		pg/g		113	84 - 130		
1,2,3,7,8,9-HxCDF			100	119		pg/g		119	78 - 130		
2,3,4,6,7,8-HxCDF			100	114		pg/g		114	70 - 156		
1,2,3,4,6,7,8-HpCDD			100	103		pg/g		103	70 - 140		
1,2,3,4,6,7,8-HpCDF			100	110		pg/g		110	82 - 122		
1,2,3,4,7,8,9-HpCDF			100	112		pg/g		112	78 - 138		
OCDD			200	197		pg/g		99	78 - 144		
OCDF			200	195		pg/g		98	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*78*		*20 - 175*
13C-2,3,7,8-TCDF	*79*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*75*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*67*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*66*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*77*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*86*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*77*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*81*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*73*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*78*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*86*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*83*		*20 - 186*
13C-OCDD	*93*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*104*		*31 - 191*

Lab Sample ID: LCSD 320-418650/3-A
Matrix: Solid
Analysis Batch: 421645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 418650

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			20.0	21.8		pg/g		109	67 - 158	0	50
2,3,7,8-TCDF			20.0	22.0		pg/g		110	75 - 158	9	50
1,2,3,7,8-PeCDD			100	92.9		pg/g		93	70 - 142	4	50
1,2,3,7,8-PeCDF			100	98.9		pg/g		99	80 - 134	7	50
2,3,4,7,8-PeCDF			100	103		pg/g		103	68 - 160	6	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-418650/3-A
Matrix: Solid
Analysis Batch: 421645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 418650

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,4,7,8-HxCDD			100	96.7		pg/g		97	70 - 164	6	50
1,2,3,6,7,8-HxCDD			100	94.7		pg/g		95	76 - 134	7	50
1,2,3,7,8,9-HxCDD			100	89.5		pg/g		90	64 - 162	8	50
1,2,3,4,7,8-HxCDF			100	105		pg/g		105	72 - 134	32	50
1,2,3,6,7,8-HxCDF			100	105		pg/g		105	84 - 130	13	50
1,2,3,7,8,9-HxCDF			100	103		pg/g		103	78 - 130	4	50
2,3,4,6,7,8-HxCDF			100	104		pg/g		104	70 - 156	6	50
1,2,3,4,6,7,8-HpCDD			100	101		pg/g		101	70 - 140	2	50
1,2,3,4,6,7,8-HpCDF			100	104		pg/g		104	82 - 122	1	50
1,2,3,4,7,8,9-HpCDF			100	105		pg/g		105	78 - 138	5	50
OCDD			200	192		pg/g		96	78 - 144	6	50
OCDF			200	179		pg/g		90	63 - 170	1	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*85*		*20 - 175*
13C-2,3,7,8-TCDF	*74*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*82*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*67*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*66*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*85*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*90*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*73*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*75*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*72*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*74*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*91*		*20 - 186*
13C-OCDD	*130*		*13 - 199*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*98*		*31 - 191*

Lab Sample ID: MB 320-418764/1-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418764

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	2.43	J q	10	0.38	pg/L		10/05/20 11:15	10/12/20 23:54	1
2,3,7,8-TCDF	4.60	J	10	0.28	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,7,8-PeCDD	4.54	J	50	0.40	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,7,8-PeCDF	4.80	J	50	0.33	pg/L		10/05/20 11:15	10/12/20 23:54	1
2,3,4,7,8-PeCDF	4.90	J	50	0.37	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,4,7,8-HxCDD	6.45	J q	50	0.46	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,6,7,8-HxCDD	5.69	J	50	0.43	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,7,8,9-HxCDD	4.89	J	50	0.39	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,4,7,8-HxCDF	5.46	J	50	0.71	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,6,7,8-HxCDF	5.26	J	50	0.67	pg/L		10/05/20 11:15	10/12/20 23:54	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-418764/1-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 418764

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	5.15	J	50	0.39	pg/L		10/05/20 11:15	10/12/20 23:54	1
2,3,4,6,7,8-HxCDF	5.44	J	50	0.40	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,4,6,7,8-HpCDD	5.73	J	50	0.24	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,4,6,7,8-HpCDF	5.13	J	50	0.22	pg/L		10/05/20 11:15	10/12/20 23:54	1
1,2,3,4,7,8,9-HpCDF	4.23	J	50	0.31	pg/L		10/05/20 11:15	10/12/20 23:54	1
OCDD	9.43	J	100	0.45	pg/L		10/05/20 11:15	10/12/20 23:54	1
OCDF	9.39	J	100	0.64	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total TCDD	6.17	J q	10	0.38	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total TCDF	8.09	J q	10	0.28	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total PeCDD	4.54	J	50	0.40	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total PeCDF	9.70	J	50	0.35	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total HxCDD	17.0	J q	50	0.42	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total HxCDF	21.3	J	50	0.54	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total HpCDD	6.99	J	50	0.24	pg/L		10/05/20 11:15	10/12/20 23:54	1
Total HpCDF	9.36	J	50	0.26	pg/L		10/05/20 11:15	10/12/20 23:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*25 - 164*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-2,3,7,8-TCDF	*98*		*24 - 169*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,7,8-PeCDD	*76*		*25 - 181*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,7,8-PeCDF	*88*		*24 - 185*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-2,3,4,7,8-PeCDF	*88*		*21 - 178*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*32 - 141*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,6,7,8-HxCDD	*87*		*28 - 130*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,4,7,8-HxCDF	*105*		*26 - 152*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,6,7,8-HxCDF	*100*		*26 - 123*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,7,8,9-HxCDF	*104*		*29 - 147*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-2,3,4,6,7,8-HxCDF	*107*		*28 - 136*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*79*		*23 - 140*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*28 - 143*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*88*		*26 - 138*	*10/05/20 11:15*	*10/12/20 23:54*	*1*
13C-OCDD	*75*		*17 - 157*	*10/05/20 11:15*	*10/12/20 23:54*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*110*		*35 - 197*	*10/05/20 11:15*	*10/12/20 23:54*	*1*

Lab Sample ID: LCS 320-418764/2-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	217		pg/L		109	67 - 158
2,3,7,8-TCDF	200	226		pg/L		113	75 - 158
1,2,3,7,8-PeCDD	1000	1080		pg/L		108	70 - 142
1,2,3,7,8-PeCDF	1000	1110		pg/L		111	80 - 134
2,3,4,7,8-PeCDF	1000	1120		pg/L		112	68 - 160
1,2,3,4,7,8-HxCDD	1000	1110		pg/L		111	70 - 164
1,2,3,6,7,8-HxCDD	1000	1160		pg/L		116	76 - 134

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-418764/2-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 418764

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,7,8,9-HxCDD			1000	1070		pg/L		107	64 - 162		
1,2,3,4,7,8-HxCDF			1000	1140		pg/L		114	72 - 134		
1,2,3,6,7,8-HxCDF			1000	1110		pg/L		111	84 - 130		
1,2,3,7,8,9-HxCDF			1000	1120		pg/L		112	78 - 130		
2,3,4,6,7,8-HxCDF			1000	1130		pg/L		113	70 - 156		
1,2,3,4,6,7,8-HpCDD			1000	1110		pg/L		111	70 - 140		
1,2,3,4,6,7,8-HpCDF			1000	1070		pg/L		107	82 - 122		
1,2,3,4,7,8,9-HpCDF			1000	1080		pg/L		108	78 - 138		
OCDD			2000	1960		pg/L		98	78 - 144		
OCDF			2000	2060		pg/L		103	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*93*		*20 - 175*
13C-2,3,7,8-TCDF	*107*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*88*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*101*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*99*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*101*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*99*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*124*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*126*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*122*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*134*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*126*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*113*		*20 - 186*
13C-OCDD	*100*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*114*		*31 - 191*

Lab Sample ID: LCSD 320-418764/3-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 418764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			200	210		pg/L		105	67 - 158	3	50
2,3,7,8-TCDF			200	220		pg/L		110	75 - 158	2	50
1,2,3,7,8-PeCDD			1000	1040		pg/L		104	70 - 142	4	50
1,2,3,7,8-PeCDF			1000	1090		pg/L		109	80 - 134	2	50
2,3,4,7,8-PeCDF			1000	1100		pg/L		110	68 - 160	2	50
1,2,3,4,7,8-HxCDD			1000	1110		pg/L		111	70 - 164	1	50
1,2,3,6,7,8-HxCDD			1000	1130		pg/L		113	76 - 134	3	50
1,2,3,7,8,9-HxCDD			1000	1080		pg/L		108	64 - 162	1	50
1,2,3,4,7,8-HxCDF			1000	1100		pg/L		110	72 - 134	4	50
1,2,3,6,7,8-HxCDF			1000	1100		pg/L		110	84 - 130	1	50
1,2,3,7,8,9-HxCDF			1000	1090		pg/L		109	78 - 130	2	50
2,3,4,6,7,8-HxCDF			1000	1100		pg/L		110	70 - 156	3	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-418764/3-A
Matrix: Water
Analysis Batch: 421347

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 418764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD			1000	1060		pg/L		106	70 - 140	4	50
1,2,3,4,6,7,8-HpCDF			1000	1040		pg/L		104	82 - 122	3	50
1,2,3,4,7,8,9-HpCDF			1000	1060		pg/L		106	78 - 138	2	50
OCDD			2000	1990		pg/L		99	78 - 144	2	50
OCDF			2000	2090		pg/L		105	63 - 170	1	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*83*		*20 - 175*
13C-2,3,7,8-TCDF	*96*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*73*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*84*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*86*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*74*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*79*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*95*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*98*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*96*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*98*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*72*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*90*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*82*		*20 - 186*
13C-OCDD	*73*		*13 - 199*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*118*		*31 - 191*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-566372/1-A
Matrix: Solid
Analysis Batch: 566538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Barium	<0.11		1.0	0.11	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Cadmium	<0.036		0.20	0.036	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Lead	<0.23		0.50	0.23	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/13/20 18:37	10/14/20 07:52	1
Silver	<0.13		0.50	0.13	mg/Kg		10/13/20 18:37	10/14/20 07:52	1

Lab Sample ID: LCS 500-566372/2-A
Matrix: Solid
Analysis Batch: 566538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			10.0	9.28		mg/Kg		93	80 - 120
Barium			200	195		mg/Kg		97	80 - 120
Cadmium			5.00	4.54		mg/Kg		91	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-566372/2-A
Matrix: Solid
Analysis Batch: 566538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Lead	10.0	9.28		mg/Kg		93	80 - 120
Selenium	10.0	9.05		mg/Kg		90	80 - 120
Silver	5.00	4.57		mg/Kg		91	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-564717/1-A
Matrix: Water
Analysis Batch: 564872

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 564717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		10/02/20 18:13	10/03/20 07:50	1
Barium	<0.73		2.5	0.73	ug/L		10/02/20 18:13	10/03/20 07:50	1
Cadmium	<0.17		0.50	0.17	ug/L		10/02/20 18:13	10/03/20 07:50	1
Chromium	<1.1		5.0	1.1	ug/L		10/02/20 18:13	10/03/20 07:50	1
Lead	<0.19		0.50	0.19	ug/L		10/02/20 18:13	10/03/20 07:50	1
Selenium	<0.98		2.5	0.98	ug/L		10/02/20 18:13	10/03/20 07:50	1
Silver	<0.12		0.50	0.12	ug/L		10/02/20 18:13	10/03/20 07:50	1

Lab Sample ID: LCS 500-564717/2-A
Matrix: Water
Analysis Batch: 564872

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 564717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	96.0		ug/L		96	80 - 120
Barium	500	506		ug/L		101	80 - 120
Cadmium	50.0	50.1		ug/L		100	80 - 120
Chromium	200	209		ug/L		105	80 - 120
Lead	100	104		ug/L		104	80 - 120
Selenium	100	104		ug/L		104	80 - 120
Silver	50.0	48.7		ug/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-566259/12-A
Matrix: Water
Analysis Batch: 566522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		10/13/20 10:00	10/14/20 06:57	1

Lab Sample ID: LCS 500-566259/13-A
Matrix: Water
Analysis Batch: 566522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.26		ug/L		113	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-566275/12-A
Matrix: Solid
Analysis Batch: 566463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/13/20 13:40	10/14/20 07:04	1

Lab Sample ID: LCS 500-566275/13-A
Matrix: Solid
Analysis Batch: 566463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.176		mg/Kg		105	80 - 120

Lab Sample ID: 500-188700-4 MS
Matrix: Solid
Analysis Batch: 566463

Client Sample ID: SB-04 (24-26)
Prep Type: Total/NA
Prep Batch: 566275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.0053		0.0795	0.0838		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-188700-4 MSD
Matrix: Solid
Analysis Batch: 566463

Client Sample ID: SB-04 (24-26)
Prep Type: Total/NA
Prep Batch: 566275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.0053		0.0797	0.0853		mg/Kg	☼	107	75 - 125	2	20

Lab Sample ID: 500-188700-4 DU
Matrix: Solid
Analysis Batch: 566463

Client Sample ID: SB-04 (24-26)
Prep Type: Total/NA
Prep Batch: 566275

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.0053		<0.0053		mg/Kg	☼	NC	20

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 500-566720/1-A
Matrix: Solid
Analysis Batch: 566861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.41		0.50	0.41	mg/Kg		10/15/20 11:00	10/15/20 17:30	1

Lab Sample ID: LCS 500-566720/2-A
Matrix: Solid
Analysis Batch: 566861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	10.0	10.3		mg/Kg		103	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: MB 500-566982/1-A
Matrix: Water
Analysis Batch: 567025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		10/16/20 12:30	10/16/20 15:18	1

Lab Sample ID: LCS 500-566982/2-A
Matrix: Water
Analysis Batch: 567025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenolics, Total Recoverable			0.100	0.0946		mg/L		95	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: 500-188700-7 DU
Matrix: Water
Analysis Batch: 566213

Client Sample ID: TW-03 (093020)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.2	HF		7.3		SU				0.4	

Client Sample ID: SB-05 (0-4)

Lab Sample ID: 500-188700-1

Date Collected: 09/30/20 07:25

Matrix: Solid

Date Received: 10/02/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	566447	10/13/20 17:25	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-05 (0-4)

Lab Sample ID: 500-188700-1

Date Collected: 09/30/20 07:25

Matrix: Solid

Date Received: 10/02/20 09:35

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			566160	09/30/20 07:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 12:22	JDD	TAL CHI
Total/NA	Prep	3541	DL		566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	566478	10/14/20 17:14	AJD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 18:59	AJD	TAL CHI
Total/NA	Prep	WI GRO			566160	09/30/20 07:25	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	566341	10/13/20 20:18	WRE	TAL CHI
Total/NA	Prep	3541			566179	10/13/20 06:56	BSO	TAL CHI
Total/NA	Analysis	8081B		1	566410	10/14/20 14:01	PJ1	TAL CHI
Total/NA	Prep	3541			566179	10/13/20 06:56	BSO	TAL CHI
Total/NA	Analysis	8082A		1	566392	10/14/20 02:22	SS	TAL CHI
Total/NA	Prep	8151A			566212	10/13/20 08:05	CLL	TAL CHI
Total/NA	Analysis	8151A		10	566628	10/15/20 14:28	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 15:49	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			418650	10/05/20 07:36	FC	TAL SAC
Total/NA	Analysis	1613B		1	421347	10/13/20 05:09	AS	TAL SAC
Total/NA	Prep	HRMS-Sox	RA		418650	10/05/20 07:36	FC	TAL SAC
Total/NA	Analysis	1613B	RA	1	422408	10/15/20 03:16	KSS	TAL SAC
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:09	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:35	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			566720	10/15/20 11:00	PFK	TAL CHI
Total/NA	Analysis	420.4		1	566861	10/15/20 17:32	PFK	TAL CHI

Client Sample ID: SB-05 (29-31.5)

Lab Sample ID: 500-188700-2

Date Collected: 09/30/20 08:55

Matrix: Solid

Date Received: 10/02/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	566447	10/13/20 17:30	SMO	TAL CHI
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-05 (29-31.5)

Lab Sample ID: 500-188700-2

Date Collected: 09/30/20 08:55

Matrix: Solid

Date Received: 10/02/20 09:35

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			566160	09/30/20 08:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 12:49	JDD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 11:27	AJD	TAL CHI
Total/NA	Prep	WI GRO			566160	09/30/20 08:55	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	566341	10/13/20 20:53	WRE	TAL CHI
Total/NA	Prep	3541			566179	10/13/20 06:56	BSO	TAL CHI
Total/NA	Analysis	8081B		1	566410	10/14/20 14:21	PJ1	TAL CHI
Total/NA	Prep	3541			566179	10/13/20 06:56	BSO	TAL CHI
Total/NA	Analysis	8082A		1	566392	10/14/20 02:38	SS	TAL CHI
Total/NA	Prep	8151A			566212	10/13/20 08:05	CLL	TAL CHI
Total/NA	Analysis	8151A		10	566628	10/15/20 14:47	JBJ	TAL CHI
Total/NA	Prep	WI DRO PREP			565022	10/06/20 05:48	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	565359	10/07/20 16:41	SS	TAL CHI
Total/NA	Prep	HRMS-Sox			418650	10/05/20 07:36	FC	TAL SAC
Total/NA	Analysis	1613B		1	421347	10/13/20 05:54	AS	TAL SAC
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:12	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:37	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			566720	10/15/20 11:00	PFK	TAL CHI
Total/NA	Analysis	420.4		1	566861	10/15/20 17:33	PFK	TAL CHI

Client Sample ID: SB-04 (0-4)

Lab Sample ID: 500-188700-3

Date Collected: 09/30/20 10:30

Matrix: Solid

Date Received: 10/02/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-04 (0-4)

Lab Sample ID: 500-188700-3

Date Collected: 09/30/20 10:30

Matrix: Solid

Date Received: 10/02/20 09:35

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			566160	09/30/20 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 13:16	JDD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 18:33	AJD	TAL CHI
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:15	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:39	MJG	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-04 (24-26)
Date Collected: 09/30/20 11:05
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-4
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			566160	09/30/20 11:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 13:43	JDD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 13:40	AJD	TAL CHI
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:18	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:41	MJG	TAL CHI

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-02 (0-4)
Date Collected: 09/30/20 11:40
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-5
Matrix: Solid
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			566160	09/30/20 11:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 14:09	JDD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 16:21	AJD	TAL CHI
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:22	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:53	MJG	TAL CHI

Client Sample ID: SB-02 (24-26)
Date Collected: 09/30/20 12:00
Date Received: 10/02/20 09:35

Lab Sample ID: 500-188700-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566192	10/13/20 08:59	LWN	TAL CHI

Client Sample ID: SB-02 (24-26)

Lab Sample ID: 500-188700-6

Date Collected: 09/30/20 12:00

Matrix: Solid

Date Received: 10/02/20 09:35

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			566160	09/30/20 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	566182	10/13/20 14:36	JDD	TAL CHI
Total/NA	Prep	3541			566391	10/13/20 21:32	JP1	TAL CHI
Total/NA	Analysis	8270D		1	566478	10/14/20 15:54	AJD	TAL CHI
Total/NA	Prep	3050B			566372	10/13/20 18:37	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566538	10/14/20 09:25	JEF	TAL CHI
Total/NA	Prep	7471B			566275	10/13/20 13:40	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566463	10/14/20 07:55	MJG	TAL CHI

Client Sample ID: TW-03 (093020)

Lab Sample ID: 500-188700-7

Date Collected: 09/30/20 13:50

Matrix: Water

Date Received: 10/02/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	566181	10/13/20 11:55	JDD	TAL CHI
Total/NA	Prep	3510C			564790	10/05/20 06:19	CMC	TAL CHI
Total/NA	Analysis	8270D		1	564999	10/06/20 02:09	NRJ	TAL CHI
Total/NA	Analysis	WI-GRO		1	566343	10/14/20 01:32	WRE	TAL CHI
Total/NA	Prep	3510C			565341	10/07/20 08:54	JD	TAL CHI
Total/NA	Analysis	8081B		1	565481	10/08/20 05:45	PJ1	TAL CHI
Total/NA	Prep	3510C			565341	10/07/20 08:54	JD	TAL CHI
Total/NA	Analysis	8082A		1	565474	10/08/20 02:01	SS	TAL CHI
Total/NA	Prep	8151A			564839	10/05/20 08:28	CMC	TAL CHI
Total/NA	Analysis	8151A		1	565250	10/07/20 16:05	JBJ	TAL CHI
Total/NA	Prep	3510C			564670	10/02/20 13:24	CLL	TAL CHI
Total/NA	Analysis	WI-DRO		1	564733	10/03/20 02:03	SS	TAL CHI
Total/NA	Prep	1613B			418764	10/05/20 11:15	NR	TAL SAC
Total/NA	Analysis	1613B		1	421347	10/13/20 02:09	AS	TAL SAC
Total Recoverable	Prep	3005A			564717	10/02/20 18:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	564872	10/03/20 08:48	FXG	TAL CHI
Total/NA	Prep	7470A			566259	10/13/20 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	566522	10/14/20 08:19	MJG	TAL CHI
Total/NA	Prep	Distill/Phenol			566982	10/16/20 12:30	PFK	TAL CHI
Total/NA	Analysis	420.4		1	567025	10/16/20 15:37	PFK	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	566213	10/12/20 13:01	SMO	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-188700-8

Date Collected: 09/30/20 00:00

Matrix: Water

Date Received: 10/02/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	566424	10/14/20 13:42	PMF	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 500-188700-1
Project/Site: 3M Wausau, WI 30052761

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information
Client Contact: Trenna Seilheimer
Company: ARCADIS U.S., Inc.
Address: 126 North Jefferson Street Suite 400
City: Milwaukee
State, Zip: WI, 53202
Phone: 414-276-7742(Tel)
Email: trenna.seilheimer@arcadis.com
Project Name: 3M Wausau WI 30052761
Site:

500-188700 COC

Sampler: L. Reuteman
Phone:
Lab PM: Fredrick Sandie
E-Mail: sandra.fredrick@eurofinset.com
Carrier Tracking No(s):
COC No: 500-85358-38645.2
Page: Page ~~2 of 4~~ 1 of 1
Job #: 500-188700

Due Date Requested:
TAT Requested (days): 10 Day
PO #: 30052761
WO #:
Project #: 50018062
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B - Dioxins and Furans (HRGC/HRMS)	WI_DRO - WI DRO	420.4, 6010C, 7471B, 8081B, 8082A, 8151A, 8270D, 9045D, Moisture	WI_GRO - WI GRO	8260B - VOC	8081B, 8082A, 8270D	420.4 - Phenolics, Total Recoverable	WI_DRO - WI DRO	8260B, WI_GRO	8151A - Herbicides (GC)	SM4500_H+ - pH	6020A, 7470A		Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	N	N	N	N	S	A	A	N	N	D			
1	SB-05 (0-4)	9/30/20	725	C	Solid	N	N	X	X	X	X	X									7	
2	SB-05 (29-31.5)		855		Solid			X	X	X	X	X									7	
3	SB-04 (0-4)		1030		Solid					X		X									3	only 8260B, 8270D, 6010C, 7471B
4	SB-04 (24-26)		1105		Solid					X		X									3	
5	SB-02 (0-4)		1140		Solid					X		X									3	
6	SB-02 (24-26)		1200		Solid					X		X									3	
7	TW-03 (093020)		1350	G	~~Solid~~ W								X	X	X	X	X	X	X		21	
8	Trip Blank	-	-	-	~~Solid~~ W	V	V									X						8260B only
					Solid																	
					Solid																	
					Solid																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

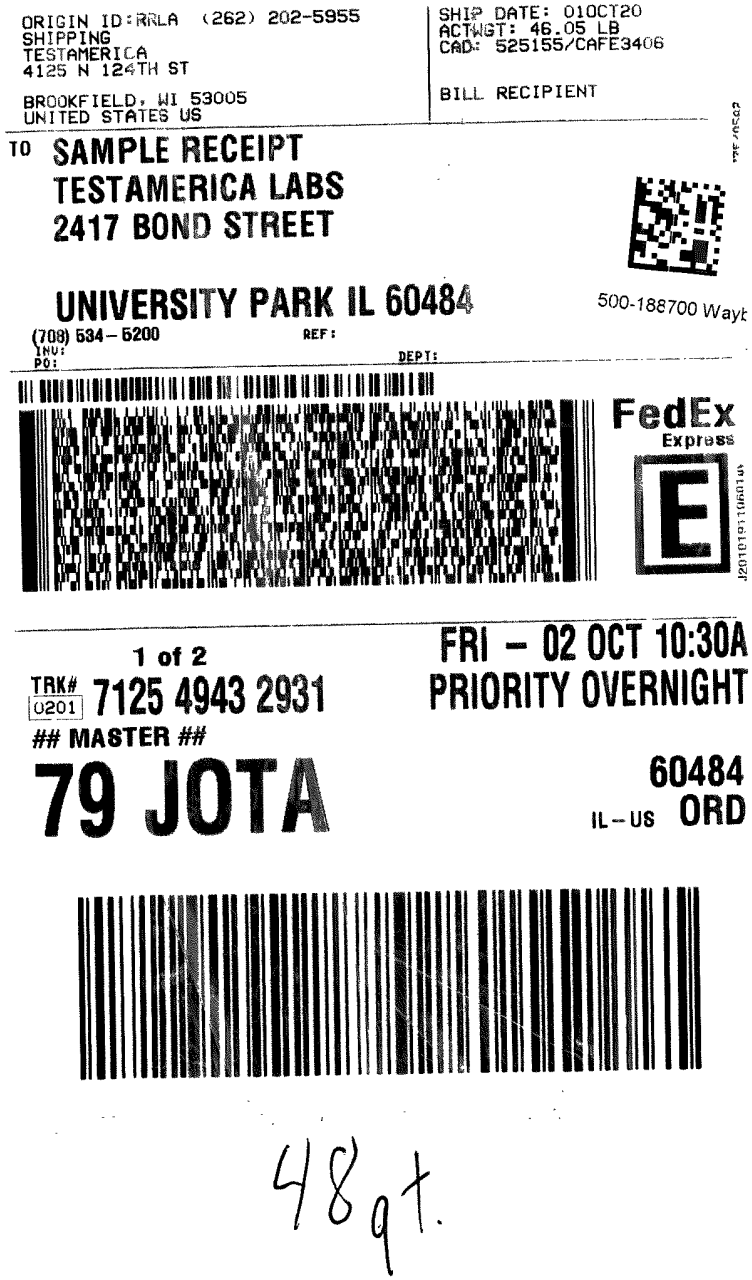
Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/1/20 1000	Arcadis		10-1-20 1000	TA
2	Relinquished by	10-1-20 1700	TA		10/2/20 0935	TA-OH
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.7, 1.9 → 2.9

Ver: 01/16/2019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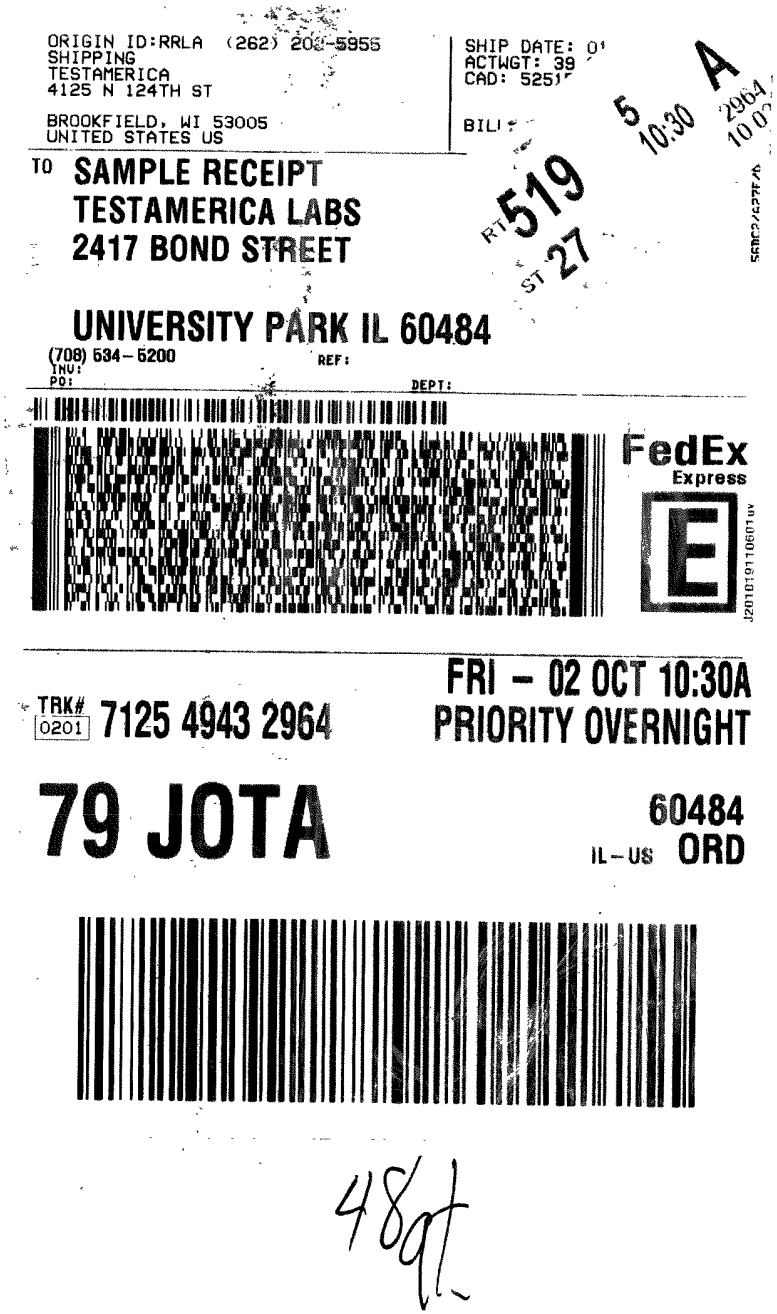
SHIPPING
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 01OCT20
ACTWGT: 46.05 LB
CAD: 525155/CAFE3406
BILL RECIPIENT
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
FedEx
Express
1 of 2
TRK# 0201 7125 4943 2931
MASTER
79 JOTA
FRI - 02 OCT 10:30A
PRIORITY OVERNIGHT
60484
IL-US ORD
48 qt.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SHIPPING
TESTAMERICA
4125 N 124TH ST
BROOKFIELD, WI 53005
UNITED STATES US
SHIP DATE: 0
ACTWGT: 39
CAD: 5251
BILL
TO SAMPLE RECEIPT
TESTAMERICA LABS
2417 BOND STREET
UNIVERSITY PARK IL 60484
(708) 534-6200
REF:
INV:
PO:
DEPT:
RT 519
ST 27
5 10:30 A
2964
FedEx
Express
TRK# 0201 7125 4943 2964
FRI - 02 OCT 10:30A
PRIORITY OVERNIGHT
79 JOTA
60484
IL-US ORD
48 qt.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-140477.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin		Job #: 500-188700-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/14/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 3M Wausau, WI 30052761	Project #: 50018062			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Dioxins and Furans (HRGC/HRMS)	1613B/1613B_Sox_Sep_P Dioxins and Furans (HRGC/HRMS)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
SB-05 (0-4) (500-188700-1)	9/30/20	07:25 Central		Solid			X		1	
SB-05 (29-31.5) (500-188700-2)	9/30/20	08:55 Central		Solid			X		1	
TW-03 (093020) (500-188700-7)	9/30/20	13:50 Central		Water				X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/2/20 1630	TA		10/03/20 09:30	ETA-SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
▲ Yes △ No	1346594	OB: 1.4 COR: 0.9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-188700-1

Login Number: 188700
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7,2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-188700-1

Login Number: 188700
List Number: 2
Creator: Her, David A

List Source: Eurofins TestAmerica, Sacramento
List Creation: 10/03/20 11:01 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1346594
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes

500-188700 Field Sheet

Tracking #: 1893444 96572

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other_____

Job:_____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AK-5 Corr. Factor: (+/-) 0.5 °C

Ice X Wet* Gel _____ Other _____

Cooler Custody Seal: 1346594

Cooler ID: —

Temp Observed: 1.4 °C Corrected: 0.9 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐

Initials: DH Date: 10/03/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DH Date: 10/3/20

Notes:_____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☑	☐	☐

Initials: DH Date: 10/3/20

Isotope Dilution Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
500-188700-1	SB-05 (0-4)	80	104	77	90	88	84	85	106
500-188700-1 - RA	SB-05 (0-4)		92						
500-188700-2	SB-05 (29-31.5)	88	108	84	90	96	82	85	105
MB 320-418650/1-A	Method Blank	76	69	85	67	66	77	82	68

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (26-123)	HxCF (29-147)	13CHxCF (28-136)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)
500-188700-1	SB-05 (0-4)	96	102	104	91	112	101	101
500-188700-1 - RA	SB-05 (0-4)							
500-188700-2	SB-05 (29-31.5)	101	107	110	104	132	114	101
MB 320-418650/1-A	Method Blank	69	69	69	98	85	91	124

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-418650/2-A	Lab Control Sample	78	79	75	67	66	77	86	77
LCSD 320-418650/3-A	Lab Control Sample Dup	85	74	82	67	66	85	90	73

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (21-159)	HxCF (17-205)	13CHxCF (22-176)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)
LCS 320-418650/2-A	Lab Control Sample	81	73	78	88	86	83	93
LCSD 320-418650/3-A	Lab Control Sample Dup	75	72	74	97	88	91	130

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD

HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
500-188700-7	TW-03 (093020)	77	94	65	75	81	77	82	99
MB 320-418764/1-A	Method Blank	83	98	76	88	88	81	87	105

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (26-123)	HxCF (29-147)	13CHxCF (28-136)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)
500-188700-7	TW-03 (093020)	93	97	102	75	102	86	73
MB 320-418764/1-A	Method Blank	100	104	107	79	97	88	75

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-418764/2-A	Lab Control Sample	93	107	88	101	99	101	99	124
LCSD 320-418764/3-A	Lab Control Sample Dup	83	96	73	84	86	74	79	95

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (21-159)	HxCF (17-205)	13CHxCF (22-176)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)
LCS 320-418764/2-A	Lab Control Sample	126	122	134	101	126	113	100
LCSD 320-418764/3-A	Lab Control Sample Dup	98	96	98	72	90	82	73

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Isotope Dilution Summary

Client: ARCADIS U.S., Inc.
Project/Site: 3M Wausau, WI 30052761

Job ID: 500-188700-1

TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD