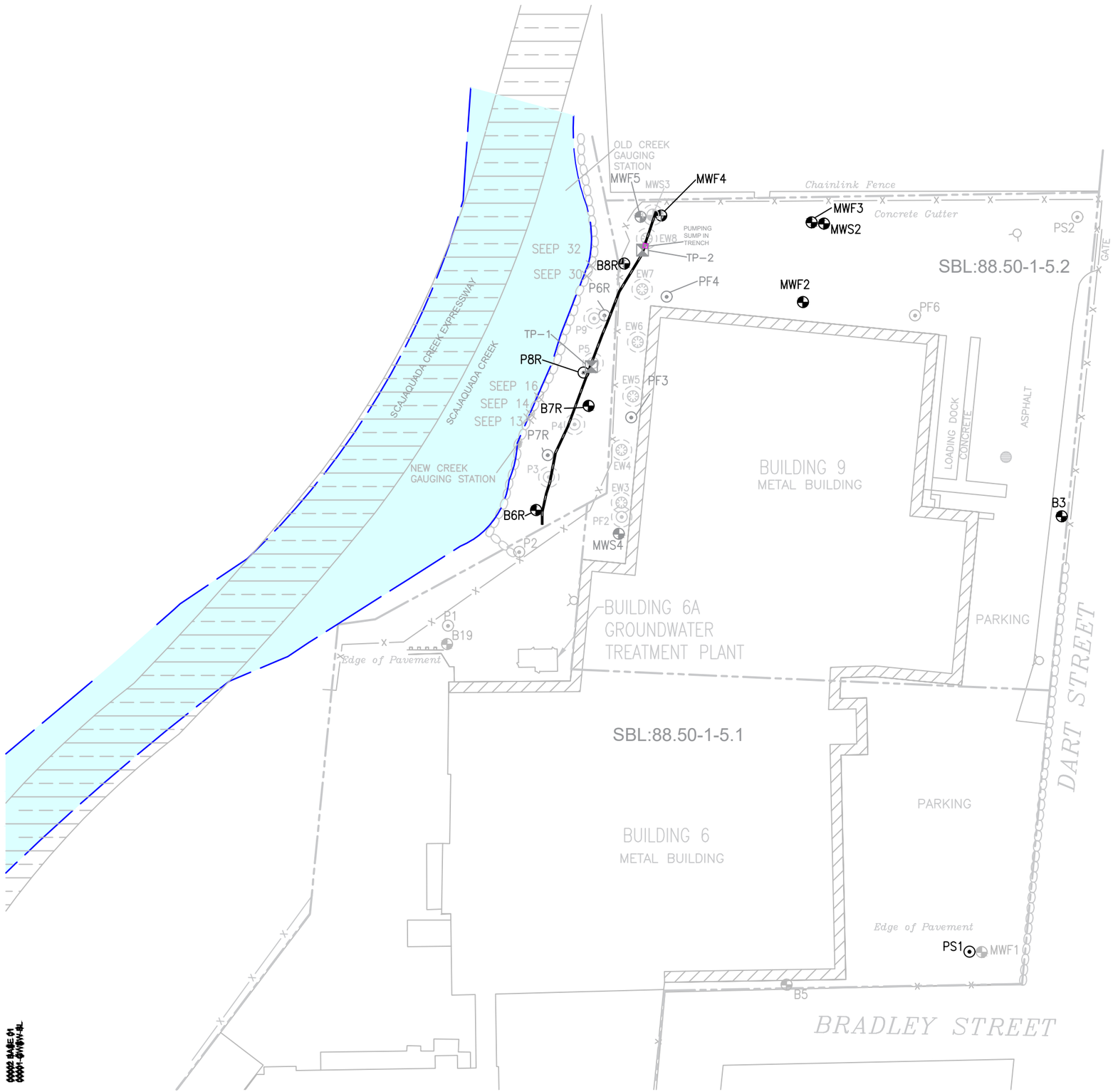
Figures



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- NS — NOT SAMPLED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

0 100 200

GRAPHIC SCALE

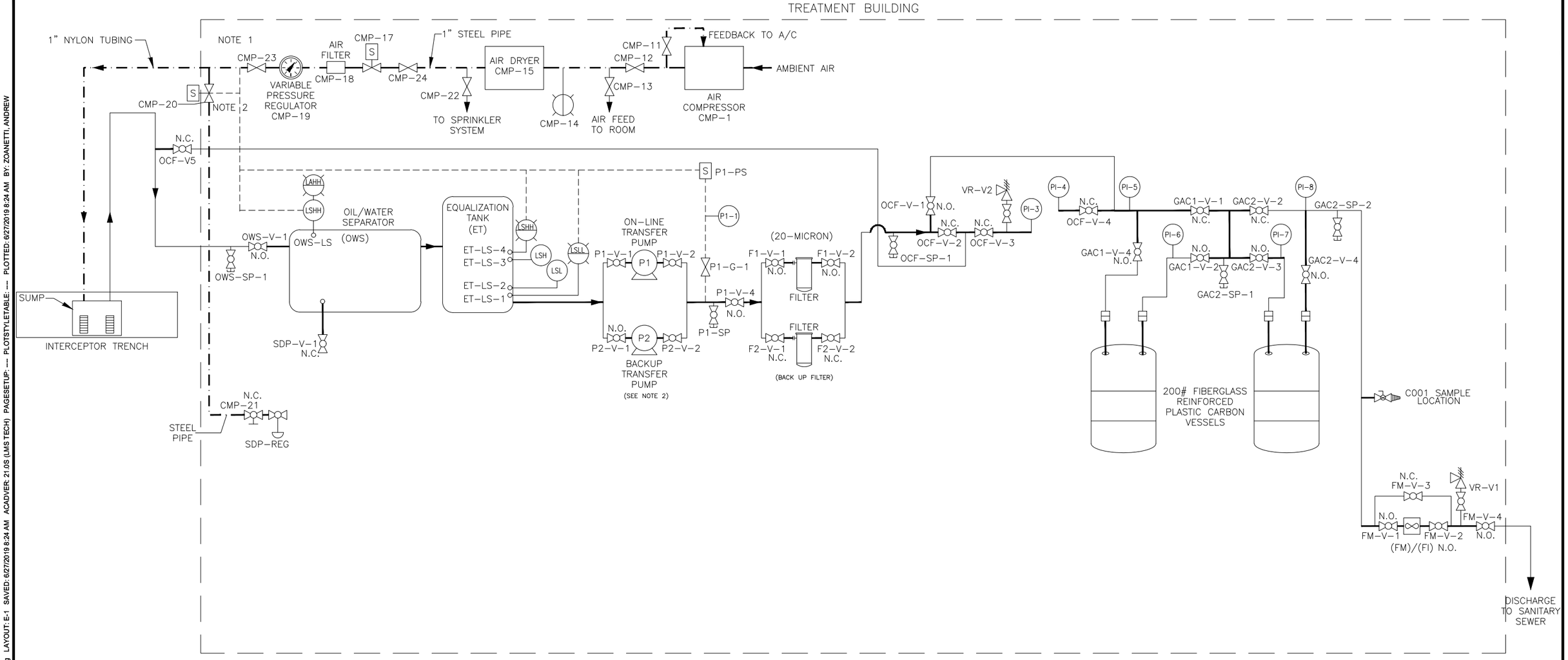
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
CITY OF BUFFALO, ERIE COUNTY, NEW YORK
NYSDEC SITE NO. 915141A

SITE MAP

FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
G:\Clients\BMS\Buffalo\11 Draft Reports and Presentations\NYSDEC Progress Report\Appendices\Appendix 3 - GW sampling results\SITE MAP.dwg LAYOUT: X SAVED: 4/10/2020 10:53 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: C:-LB-PDF PLOTSTYLETABLE: ---- PLOTTED: 4/10/2020 11:15 AM BY: ZOANETTI, ANDREW

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoanetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

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Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
CITY OF BUFFALO, ERIE COUNTY, NEW YORK
NYSDEC SITE NO. 915141A

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

FIGURE 2

Appendix A

Discharge Monitoring Reports

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: June 29, 2021
Our Ref: 30082116
Subject: **Discharge Monitoring Report – Second Quarter 2021**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 18-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this second quarter 2021 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period April 1 through June 30, 2021. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 103,685 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 3/29/2021 to 6/28/2021). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the second quarter 2021.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the April, May, and June monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

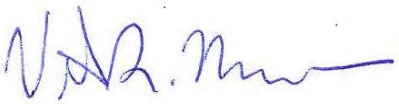
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In April, May, and June 2021, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
June 29, 2021

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

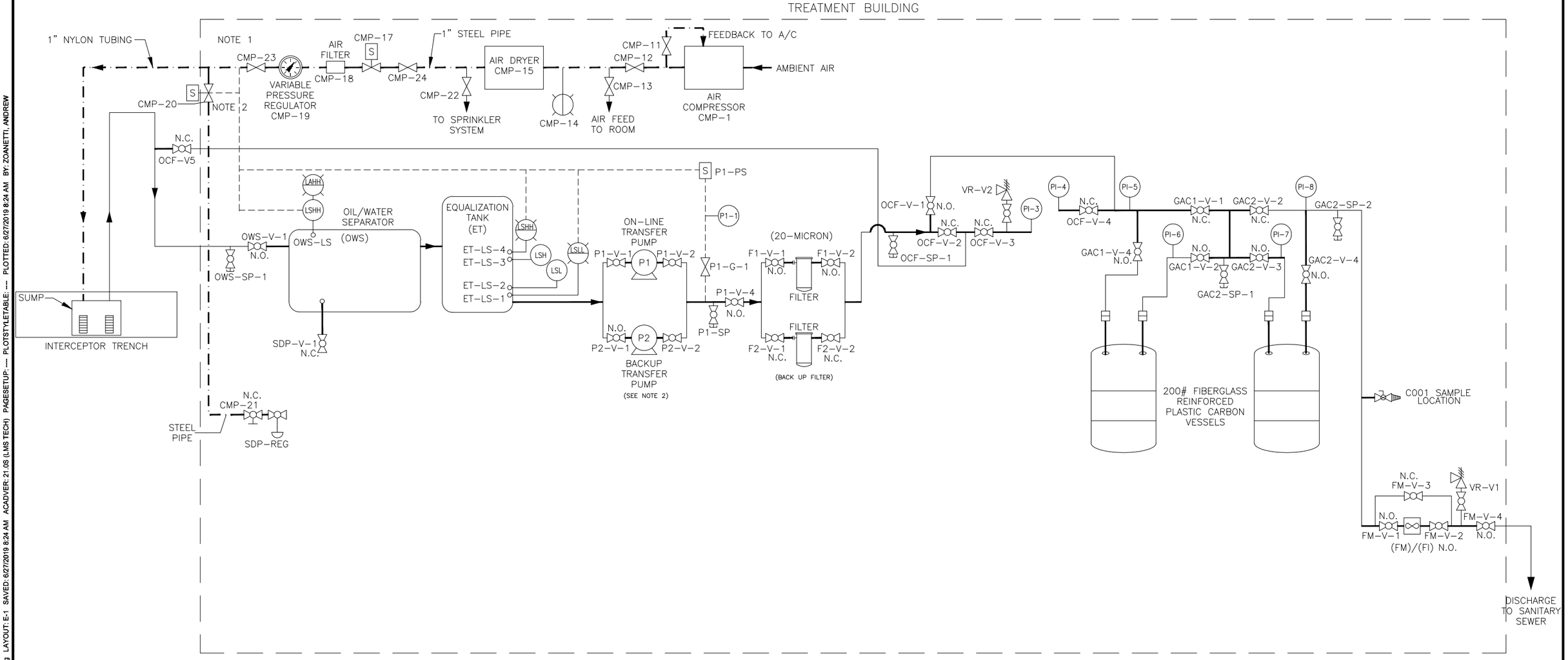
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

- A Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

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Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	4/5/21	→	→	→	JTG
Sample Time	0735	0935	1135	1335	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	36°F Sunny	45°F Sunny	50°F Sunny	57°F Sunny	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 4/5/21

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	5/4/21	→	→	→	JTE
Sample Time	0700	0900	1100	1300	JTE
Sample Observations	Clear	→	→	→	JTE
pH Measurement	N/A	→	→	→	JTE
Weather	46°F Fog	48°F Overcast	55°F Partly Sunny	52°F Overcast	JTE
Comments	NONE	→	→	→	JTE

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 5/4/21

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-8U174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	6/1/21	→	→	→	JTG
Sample Time	0930	1130	1330	1530	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	65°F Sunny	68°F Sunny	68°F Sunny	70°F Sunny	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski
Sample Technician

6/1/21
Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	3/29/2021	4/5/2021	4/14/2021	4/19/2021	4/26/2021	5/4/2021	5/10/2021
Totalizer	gal	NA	411,820	424,036	437,703	445,440	456,135	468,228	477,796
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	1.74E-03 F1	NS	NS	NS	1.17E-03 F1	NS
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	4.3E-04 J	NS
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
pH	SU	5.0-12.0	NS	7.2 HF	NS	NS	NS	7.0 HF	NS
Total Daily Flow	gal	14,400	-	1,745	1,519	1,547	1,528	1,512	1,595

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	5/20/2021	5/24/2021	6/1/2021	6/8/2021	6/14/2021	6/21/2021	6/28/2021
Totalizer	gal	NA	492,994	493,208	496,995	498,827	498,827	508,061	515,505
Total Mercury	lbs	0.00001**	NS	NS	ND	NS	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	ND	NS	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	2.64E-04 B	NS	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	3.9E-04 J	NS	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	ND	NS	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	7.6 HF	NS	NS	NS	NS
Total Daily Flow	gal	14,400	1,520	54	473	262	0	1,319	1,063

Notes:

B - Compound was found in the blank and the sample.
F1 - MS and/or MSD Recovery is outside acceptance limits.
HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NS - Not Sampled
ND - Not Detected at the reporting limit
gal - Gallons
NA - Not Applicable
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.
*** - The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.
Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-182858-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
4/12/2021 5:04:31 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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QC Association Summary 19
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Method Summary 23
Sample Summary 24
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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
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

Job ID: 480-182858-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-182858-1

Receipt
The samples were received on 4/5/2021 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 04-06-21 as requested by the client: COMPOSITE 001 1-4 (480-182858-6). Regulatory defined guidance for in-laboratory compositing of samples is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

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

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

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOSITE 001 1-4 (480-182858-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-182858-5

No Detections.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-182858-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.12	F1	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	18.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-182858-5

Date Collected: 04/05/21 00:00

Matrix: Water

Date Received: 04/05/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/06/21 14:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/06/21 14:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/06/21 14:00	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/06/21 14:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/06/21 14:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/06/21 14:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/06/21 14:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/06/21 14:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/06/21 14:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/06/21 14:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/06/21 14:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/06/21 14:00	1
Acrolein	ND		100	17	ug/L			04/06/21 14:00	1
Acrylonitrile	ND		50	1.9	ug/L			04/06/21 14:00	1
Benzene	ND		5.0	0.60	ug/L			04/06/21 14:00	1
Bromoform	ND		5.0	0.47	ug/L			04/06/21 14:00	1
Bromomethane	ND		5.0	1.2	ug/L			04/06/21 14:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/06/21 14:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/06/21 14:00	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/06/21 14:00	1
Chloroethane	ND		5.0	0.87	ug/L			04/06/21 14:00	1
Chloroform	ND		5.0	0.54	ug/L			04/06/21 14:00	1
Chloromethane	ND		5.0	0.64	ug/L			04/06/21 14:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/06/21 14:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/06/21 14:00	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/06/21 14:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/06/21 14:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/06/21 14:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/06/21 14:00	1
Toluene	ND		5.0	0.45	ug/L			04/06/21 14:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/06/21 14:00	1
Trichloroethene	ND		5.0	0.60	ug/L			04/06/21 14:00	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/06/21 14:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/06/21 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*04/06/21 14:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*04/06/21 14:00*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*04/06/21 14:00*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*04/06/21 14:00*	*1*

Client Sample ID: COMPOSITE 001 1-4

Lab Sample ID: 480-182858-6

Date Collected: 04/05/21 13:35

Matrix: Water

Date Received: 04/05/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/06/21 14:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/06/21 14:24	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/06/21 14:24	1

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-182858-6
Date Collected: 04/05/21 13:35
Matrix: Water
Date Received: 04/05/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/06/21 14:24	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/06/21 14:24	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/06/21 14:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/06/21 14:24	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/06/21 14:24	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/06/21 14:24	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/06/21 14:24	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/06/21 14:24	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/06/21 14:24	1
Acrolein	ND		100	17	ug/L			04/06/21 14:24	1
Acrylonitrile	ND		50	1.9	ug/L			04/06/21 14:24	1
Benzene	ND		5.0	0.60	ug/L			04/06/21 14:24	1
Bromoform	ND		5.0	0.47	ug/L			04/06/21 14:24	1
Bromomethane	ND		5.0	1.2	ug/L			04/06/21 14:24	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/06/21 14:24	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/06/21 14:24	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/06/21 14:24	1
Chloroethane	ND		5.0	0.87	ug/L			04/06/21 14:24	1
Chloroform	ND		5.0	0.54	ug/L			04/06/21 14:24	1
Chloromethane	ND		5.0	0.64	ug/L			04/06/21 14:24	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/06/21 14:24	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/06/21 14:24	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/06/21 14:24	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/06/21 14:24	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/06/21 14:24	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/06/21 14:24	1
Toluene	ND		5.0	0.45	ug/L			04/06/21 14:24	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/06/21 14:24	1
Trichloroethene	ND		5.0	0.60	ug/L			04/06/21 14:24	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/06/21 14:24	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/06/21 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*04/06/21 14:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*04/06/21 14:24*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*04/06/21 14:24*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*04/06/21 14:24*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		04/08/21 15:18	04/09/21 18:26	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		04/08/21 15:18	04/09/21 18:26	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		04/08/21 15:18	04/09/21 18:26	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 18:26	1

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-182858-6
Date Collected: 04/05/21 13:35
Matrix: Water
Date Received: 04/05/21 14:15

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		04/08/21 15:18	04/09/21 18:26	1
2-Chlorophenol	ND		5.0	0.66	ug/L		04/08/21 15:18	04/09/21 18:26	1
2-Nitrophenol	ND		5.0	0.70	ug/L		04/08/21 15:18	04/09/21 18:26	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		04/08/21 15:18	04/09/21 18:26	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		04/08/21 15:18	04/09/21 18:26	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 18:26	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 18:26	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 18:26	1
4-Nitrophenol	ND		15	10	ug/L		04/08/21 15:18	04/09/21 18:26	1
Acenaphthene	ND		5.0	0.81	ug/L		04/08/21 15:18	04/09/21 18:26	1
Acenaphthylene	ND		5.0	0.87	ug/L		04/08/21 15:18	04/09/21 18:26	1
Anthracene	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzidine	ND		80	35	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 18:26	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 18:26	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		04/08/21 15:18	04/09/21 18:26	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		04/08/21 15:18	04/09/21 18:26	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		04/08/21 15:18	04/09/21 18:26	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 18:26	1
Chrysene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Decane	ND		10	1.6	ug/L		04/08/21 15:18	04/09/21 18:26	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		04/08/21 15:18	04/09/21 18:26	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 18:26	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 18:26	1
Diethyl phthalate	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		04/08/21 15:18	04/09/21 18:26	1
Fluoranthene	ND		5.0	1.6	ug/L		04/08/21 15:18	04/09/21 18:26	1
Fluorene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
Hexachloroethane	ND		5.0	0.60	ug/L		04/08/21 15:18	04/09/21 18:26	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 18:26	1
Isophorone	ND		5.0	0.74	ug/L		04/08/21 15:18	04/09/21 18:26	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		04/08/21 15:18	04/09/21 18:26	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 18:26	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		04/08/21 15:18	04/09/21 18:26	1
Naphthalene	ND		5.0	0.86	ug/L		04/08/21 15:18	04/09/21 18:26	1
Nitrobenzene	ND		5.0	0.81	ug/L		04/08/21 15:18	04/09/21 18:26	1
Pentachlorophenol	ND		10	1.6	ug/L		04/08/21 15:18	04/09/21 18:26	1
Phenanthrene	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 18:26	1
Phenol	ND		5.0	0.35	ug/L		04/08/21 15:18	04/09/21 18:26	1
Pyrene	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 18:26	1
n-Octadecane	ND		10	1.2	ug/L		04/08/21 15:18	04/09/21 18:26	1

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-182858-6
Date Collected: 04/05/21 13:35
Matrix: Water
Date Received: 04/05/21 14:15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*52 - 151*	*04/08/21 15:18*	*04/09/21 18:26*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*04/08/21 15:18*	*04/09/21 18:26*	*1*
2-Fluorophenol	*45*		*17 - 120*	*04/08/21 15:18*	*04/09/21 18:26*	*1*
Nitrobenzene-d5	*89*		*15 - 314*	*04/08/21 15:18*	*04/09/21 18:26*	*1*
p-Terphenyl-d14	*72*		*22 - 125*	*04/08/21 15:18*	*04/09/21 18:26*	*1*
Phenol-d5	*30*		*8 - 424*	*04/08/21 15:18*	*04/09/21 18:26*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/08/21 07:55	04/08/21 18:10	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/09/21 13:37	04/09/21 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.12**	**F1**	0.010	0.0050	mg/L		04/07/21 22:33	04/08/21 17:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.1	0.1	SU			04/11/21 10:32	1
Temperature	**18.8**	**HF**	0.001	0.001	Degrees C			04/11/21 10:32	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-182858-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-182858-5	TRIP BLANK	99	101	100	101
480-182858-6	COMPOSITE 001 1-4	100	101	99	101
LCS 480-575141/5	Lab Control Sample	101	102	100	103
MB 480-575141/7	Method Blank	97	99	100	104

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-182858-6	COMPOSITE 001 1-4	96	96	45	89	72	30
LCS 480-575646/2-A	Lab Control Sample	105	94	47	86	104	34
LCSD 480-575646/3-A	Lab Control Sample Dup	102	89	46	83	100	32
MB 480-575646/1-A	Method Blank	89	97	48	95	105	33

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-575141/7
Matrix: Water
Analysis Batch: 575141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/06/21 10:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/06/21 10:36	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/06/21 10:36	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/06/21 10:36	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/06/21 10:36	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/06/21 10:36	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/06/21 10:36	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/06/21 10:36	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/06/21 10:36	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/06/21 10:36	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/06/21 10:36	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/06/21 10:36	1
Acrolein	ND		100	17	ug/L			04/06/21 10:36	1
Acrylonitrile	ND		50	1.9	ug/L			04/06/21 10:36	1
Benzene	ND		5.0	0.60	ug/L			04/06/21 10:36	1
Bromoform	ND		5.0	0.47	ug/L			04/06/21 10:36	1
Bromomethane	ND		5.0	1.2	ug/L			04/06/21 10:36	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/06/21 10:36	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/06/21 10:36	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/06/21 10:36	1
Chloroethane	ND		5.0	0.87	ug/L			04/06/21 10:36	1
Chloroform	ND		5.0	0.54	ug/L			04/06/21 10:36	1
Chloromethane	ND		5.0	0.64	ug/L			04/06/21 10:36	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/06/21 10:36	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/06/21 10:36	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/06/21 10:36	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/06/21 10:36	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/06/21 10:36	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/06/21 10:36	1
Toluene	ND		5.0	0.45	ug/L			04/06/21 10:36	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/06/21 10:36	1
Trichloroethene	ND		5.0	0.60	ug/L			04/06/21 10:36	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/06/21 10:36	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/06/21 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*04/06/21 10:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*04/06/21 10:36*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*04/06/21 10:36*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*04/06/21 10:36*	*1*

Lab Sample ID: LCS 480-575141/5
Matrix: Water
Analysis Batch: 575141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	52 - 162
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575141/5
Matrix: Water
Analysis Batch: 575141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	52 - 150
1,1-Dichloroethane	20.0	20.6		ug/L		103	59 - 155
1,1-Dichloroethene	20.0	19.8		ug/L		99	1 - 234
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	18 - 190
1,2-Dichloroethane	20.0	20.1		ug/L		101	49 - 155
1,2-Dichloropropane	20.0	20.0		ug/L		100	1 - 210
1,3-Dichlorobenzene	20.0	19.5		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.7		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	20.4	J	ug/L		102	1 - 305
Benzene	20.0	19.6		ug/L		98	37 - 151
Bromoform	20.0	19.1		ug/L		96	45 - 169
Bromomethane	20.0	20.3		ug/L		101	1 - 242
Carbon tetrachloride	20.0	18.1		ug/L		91	70 - 140
Chlorobenzene	20.0	19.8		ug/L		99	37 - 160
Dibromochloromethane	20.0	19.0		ug/L		95	53 - 149
Chloroethane	20.0	18.7		ug/L		93	14 - 230
Chloroform	20.0	19.8		ug/L		99	51 - 138
Chloromethane	20.0	19.8		ug/L		99	1 - 273
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	1 - 227
Bromodichloromethane	20.0	19.3		ug/L		97	35 - 155
Ethylbenzene	20.0	19.9		ug/L		99	37 - 162
Methylene Chloride	20.0	20.0		ug/L		100	1 - 221
Tetrachloroethene	20.0	19.4		ug/L		97	64 - 148
Toluene	20.0	19.5		ug/L		98	47 - 150
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	17 - 183
Trichloroethene	20.0	19.4		ug/L		97	71 - 157
Trichlorofluoromethane	20.0	20.0		ug/L		100	17 - 181
Vinyl chloride	20.0	19.0		ug/L		95	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-575646/1-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		04/08/21 15:18	04/09/21 16:46	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		04/08/21 15:18	04/09/21 16:46	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		04/08/21 15:18	04/09/21 16:46	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-575646/1-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		04/08/21 15:18	04/09/21 16:46	1
2-Chlorophenol	ND		5.0	0.66	ug/L		04/08/21 15:18	04/09/21 16:46	1
2-Nitrophenol	ND		5.0	0.70	ug/L		04/08/21 15:18	04/09/21 16:46	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		04/08/21 15:18	04/09/21 16:46	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		04/08/21 15:18	04/09/21 16:46	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 16:46	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 16:46	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 16:46	1
4-Nitrophenol	ND		15	10	ug/L		04/08/21 15:18	04/09/21 16:46	1
Acenaphthene	ND		5.0	0.81	ug/L		04/08/21 15:18	04/09/21 16:46	1
Acenaphthylene	ND		5.0	0.87	ug/L		04/08/21 15:18	04/09/21 16:46	1
Anthracene	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzidine	ND		80	35	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 16:46	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		04/08/21 15:18	04/09/21 16:46	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		04/08/21 15:18	04/09/21 16:46	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		04/08/21 15:18	04/09/21 16:46	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		04/08/21 15:18	04/09/21 16:46	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		04/08/21 15:18	04/09/21 16:46	1
Chrysene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Decane	ND		10	1.6	ug/L		04/08/21 15:18	04/09/21 16:46	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		04/08/21 15:18	04/09/21 16:46	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 16:46	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 16:46	1
Diethyl phthalate	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		04/08/21 15:18	04/09/21 16:46	1
Fluoranthene	ND		5.0	1.6	ug/L		04/08/21 15:18	04/09/21 16:46	1
Fluorene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
Hexachloroethane	ND		5.0	0.60	ug/L		04/08/21 15:18	04/09/21 16:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		04/08/21 15:18	04/09/21 16:46	1
Isophorone	ND		5.0	0.74	ug/L		04/08/21 15:18	04/09/21 16:46	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		04/08/21 15:18	04/09/21 16:46	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		04/08/21 15:18	04/09/21 16:46	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		04/08/21 15:18	04/09/21 16:46	1
Naphthalene	ND		5.0	0.86	ug/L		04/08/21 15:18	04/09/21 16:46	1
Nitrobenzene	ND		5.0	0.81	ug/L		04/08/21 15:18	04/09/21 16:46	1
Pentachlorophenol	ND		10	1.6	ug/L		04/08/21 15:18	04/09/21 16:46	1
Phenanthrene	ND		5.0	1.2	ug/L		04/08/21 15:18	04/09/21 16:46	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-575646/1-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.35	ug/L		04/08/21 15:18	04/09/21 16:46	1
Pyrene	ND		5.0	1.4	ug/L		04/08/21 15:18	04/09/21 16:46	1
n-Octadecane	ND		10	1.2	ug/L		04/08/21 15:18	04/09/21 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*52 - 151*	*04/08/21 15:18*	*04/09/21 16:46*	*1*
2-Fluorobiphenyl	*97*		*44 - 120*	*04/08/21 15:18*	*04/09/21 16:46*	*1*
2-Fluorophenol	*48*		*17 - 120*	*04/08/21 15:18*	*04/09/21 16:46*	*1*
Nitrobenzene-d5	*95*		*15 - 314*	*04/08/21 15:18*	*04/09/21 16:46*	*1*
p-Terphenyl-d14	*105*		*22 - 125*	*04/08/21 15:18*	*04/09/21 16:46*	*1*
Phenol-d5	*33*		*8 - 424*	*04/08/21 15:18*	*04/09/21 16:46*	*1*

Lab Sample ID: LCS 480-575646/2-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	39.2		ug/L		78	44 - 142
1,2-Dichlorobenzene	50.0	35.4		ug/L		71	32 - 129
1,3-Dichlorobenzene	50.0	33.4		ug/L		67	1 - 172
1,4-Dichlorobenzene	50.0	35.5		ug/L		71	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	35.3		ug/L		71	36 - 166
2,4,6-Trichlorophenol	50.0	49.8		ug/L		100	37 - 144
2,4-Dichlorophenol	50.0	45.3		ug/L		91	39 - 135
2,4-Dimethylphenol	50.0	45.7		ug/L		91	32 - 120
2,4-Dinitrophenol	100	103		ug/L		103	1 - 191
2,4-Dinitrotoluene	50.0	52.0		ug/L		104	39 - 139
2,6-Dinitrotoluene	50.0	51.6		ug/L		103	50 - 158
2-Chloronaphthalene	50.0	44.8		ug/L		90	60 - 120
2-Chlorophenol	50.0	39.3		ug/L		79	23 - 134
2-Nitrophenol	50.0	44.8		ug/L		90	29 - 182
3,3'-Dichlorobenzidine	100	97.3		ug/L		97	1 - 262
4,6-Dinitro-2-methylphenol	100	105		ug/L		105	1 - 181
4-Bromophenyl phenyl ether	50.0	50.3		ug/L		101	53 - 127
4-Chloro-3-methylphenol	50.0	47.2		ug/L		94	22 - 147
4-Chlorophenyl phenyl ether	50.0	49.6		ug/L		99	25 - 158
4-Nitrophenol	100	51.9		ug/L		52	1 - 132
Acenaphthene	50.0	47.4		ug/L		95	47 - 145
Acenaphthylene	50.0	49.0		ug/L		98	33 - 145
Anthracene	50.0	50.7		ug/L		101	27 - 133
Benzidine	100	ND		ug/L		27	1 - 120
Benzo[a]anthracene	50.0	53.3		ug/L		107	33 - 143
Benzo[a]pyrene	50.0	59.3		ug/L		119	17 - 163
Benzo[b]fluoranthene	50.0	51.8		ug/L		104	24 - 159
Benzo[g,h,i]perylene	50.0	54.0		ug/L		108	1 - 219
Benzo[k]fluoranthene	50.0	54.4		ug/L		109	11 - 162
Bis(2-chloroethoxy)methane	50.0	44.4		ug/L		89	33 - 184
Bis(2-chloroethyl)ether	50.0	38.1		ug/L		76	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575646/2-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	49.4		ug/L		99	8 - 158
Butyl benzyl phthalate	50.0	48.9		ug/L		98	1 - 152
Chrysene	50.0	51.9		ug/L		104	17 - 168
Di-n-butyl phthalate	50.0	52.4		ug/L		105	1 - 120
Di-n-octyl phthalate	50.0	51.7		ug/L		103	4 - 146
Dibenz(a,h)anthracene	50.0	53.7		ug/L		107	1 - 227
Diethyl phthalate	50.0	54.4		ug/L		109	1 - 120
Dimethyl phthalate	50.0	52.6		ug/L		105	1 - 120
Fluoranthene	50.0	56.3		ug/L		113	26 - 137
Fluorene	50.0	50.0		ug/L		100	59 - 121
Hexachlorobenzene	50.0	52.4		ug/L		105	1 - 152
Hexachlorocyclopentadiene	50.0	41.4		ug/L		83	5 - 120
Hexachloroethane	50.0	32.2		ug/L		64	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.8		ug/L		108	1 - 171
Isophorone	50.0	47.4		ug/L		95	21 - 196
N-Nitrosodi-n-propylamine	50.0	45.2		ug/L		90	1 - 230
N-Nitrosodiphenylamine	50.0	49.7		ug/L		99	54 - 125
Naphthalene	50.0	41.1		ug/L		82	21 - 133
Nitrobenzene	50.0	42.7		ug/L		85	35 - 180
Pentachlorophenol	100	126		ug/L		126	14 - 176
Phenanthrene	50.0	50.8		ug/L		102	54 - 120
Phenol	50.0	18.2		ug/L		36	5 - 120
Pyrene	50.0	52.7		ug/L		105	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*52 - 151*
2-Fluorobiphenyl	*94*		*44 - 120*
2-Fluorophenol	*47*		*17 - 120*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*104*		*22 - 125*
Phenol-d5	*34*		*8 - 424*

Lab Sample ID: LCSD 480-575646/3-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575646

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	37.4		ug/L		75	44 - 142	5	34
1,2-Dichlorobenzene	50.0	33.9		ug/L		68	32 - 129	4	38
1,3-Dichlorobenzene	50.0	32.5		ug/L		65	1 - 172	3	37
1,4-Dichlorobenzene	50.0	33.7		ug/L		67	20 - 124	5	40
2,2'-Oxybis(1-chloropropane)	50.0	34.2		ug/L		68	36 - 166	3	36
2,4,6-Trichlorophenol	50.0	46.1		ug/L		92	37 - 144	8	20
2,4-Dichlorophenol	50.0	44.3		ug/L		89	39 - 135	2	23
2,4-Dimethylphenol	50.0	44.5		ug/L		89	32 - 120	3	18
2,4-Dinitrophenol	100	102		ug/L		102	1 - 191	1	29
2,4-Dinitrotoluene	50.0	49.6		ug/L		99	39 - 139	5	20
2,6-Dinitrotoluene	50.0	49.0		ug/L		98	50 - 158	5	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-575646/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575796
Prep Batch: 575646

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	42.6		ug/L		85	60 - 120	5	30
2-Chlorophenol			50.0	36.5		ug/L		73	23 - 134	7	26
2-Nitrophenol			50.0	43.3		ug/L		87	29 - 182	3	28
3,3'-Dichlorobenzidine			100	92.8		ug/L		93	1 - 262	5	31
4,6-Dinitro-2-methylphenol			100	102		ug/L		102	1 - 181	3	30
4-Bromophenyl phenyl ether			50.0	47.2		ug/L		94	53 - 127	6	16
4-Chloro-3-methylphenol			50.0	46.8		ug/L		94	22 - 147	1	16
4-Chlorophenyl phenyl ether			50.0	46.4		ug/L		93	25 - 158	7	15
4-Nitrophenol			100	48.1		ug/L		48	1 - 132	8	24
Acenaphthene			50.0	44.5		ug/L		89	47 - 145	6	25
Acenaphthylene			50.0	46.2		ug/L		92	33 - 145	6	22
Anthracene			50.0	49.3		ug/L		99	27 - 133	3	15
Benzidine			100	ND		ug/L		24	1 - 120	11	50
Benzo[a]anthracene			50.0	50.0		ug/L		100	33 - 143	6	15
Benzo[a]pyrene			50.0	55.2		ug/L		110	17 - 163	7	15
Benzo[b]fluoranthene			50.0	49.0		ug/L		98	24 - 159	5	17
Benzo[g,h,i]perylene			50.0	50.5		ug/L		101	1 - 219	7	19
Benzo[k]fluoranthene			50.0	50.4		ug/L		101	11 - 162	8	19
Bis(2-chloroethoxy)methane			50.0	41.8		ug/L		84	33 - 184	6	23
Bis(2-chloroethyl)ether			50.0	38.6		ug/L		77	12 - 158	1	33
Bis(2-ethylhexyl) phthalate			50.0	46.0		ug/L		92	8 - 158	7	15
Butyl benzyl phthalate			50.0	46.8		ug/L		94	1 - 152	4	15
Chrysene			50.0	48.8		ug/L		98	17 - 168	6	15
Di-n-butyl phthalate			50.0	49.9		ug/L		100	1 - 120	5	15
Di-n-octyl phthalate			50.0	48.4		ug/L		97	4 - 146	7	15
Dibenz(a,h)anthracene			50.0	50.1		ug/L		100	1 - 227	7	18
Diethyl phthalate			50.0	50.5		ug/L		101	1 - 120	7	15
Dimethyl phthalate			50.0	49.8		ug/L		100	1 - 120	5	15
Fluoranthene			50.0	53.7		ug/L		107	26 - 137	5	15
Fluorene			50.0	46.8		ug/L		94	59 - 121	7	18
Hexachlorobenzene			50.0	49.1		ug/L		98	1 - 152	7	15
Hexachlorocyclopentadiene			50.0	37.8		ug/L		76	5 - 120	9	50
Hexachloroethane			50.0	30.8		ug/L		62	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			50.0	49.6		ug/L		99	1 - 171	8	17
Isophorone			50.0	45.2		ug/L		90	21 - 196	5	21
N-Nitrosodi-n-propylamine			50.0	42.2		ug/L		84	1 - 230	7	23
N-Nitrosodiphenylamine			50.0	48.1		ug/L		96	54 - 125	3	15
Naphthalene			50.0	39.2		ug/L		78	21 - 133	5	31
Nitrobenzene			50.0	41.2		ug/L		82	35 - 180	4	27
Pentachlorophenol			100	120		ug/L		120	14 - 176	5	21
Phenanthrene			50.0	48.7		ug/L		97	54 - 120	4	16
Phenol			50.0	18.6		ug/L		37	5 - 120	2	36
Pyrene			50.0	49.0		ug/L		98	52 - 120	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*52 - 151*
2-Fluorobiphenyl	*89*		*44 - 120*
2-Fluorophenol	*46*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-575646/3-A
Matrix: Water
Analysis Batch: 575796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575646

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*83*		*15 - 314*
p-Terphenyl-d14	*100*		*22 - 125*
Phenol-d5	*32*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-575433/1-A
Matrix: Water
Analysis Batch: 575742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/08/21 07:55	04/08/21 16:25	1

Lab Sample ID: LCS 480-575433/2-A
Matrix: Water
Analysis Batch: 575742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.198		mg/L		99	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-575597/1-A
Matrix: Water
Analysis Batch: 575839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/09/21 13:37	04/09/21 16:27	1

Lab Sample ID: LCS 480-575597/2-A
Matrix: Water
Analysis Batch: 575839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00682		mg/L		102	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-575486/1-A
Matrix: Water
Analysis Batch: 575676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		04/07/21 22:33	04/08/21 17:07	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-575486/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575676
Prep Batch: 575486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.237		mg/L		95	90 - 110

Lab Sample ID: 480-182858-6 MS
Client Sample ID: COMPOSITE 001 1-4
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575676
Prep Batch: 575486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	F1	0.100	0.209	F1	mg/L		85	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-575899/1
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 575899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

GC/MS VOA

Analysis Batch: 575141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-5	TRIP BLANK	Total/NA	Water	624.1	
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	624.1	
MB 480-575141/7	Method Blank	Total/NA	Water	624.1	
LCS 480-575141/5	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 575646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	625	
MB 480-575646/1-A	Method Blank	Total/NA	Water	625	
LCS 480-575646/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-575646/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 575796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	625.1	575646
MB 480-575646/1-A	Method Blank	Total/NA	Water	625.1	575646
LCS 480-575646/2-A	Lab Control Sample	Total/NA	Water	625.1	575646
LCSD 480-575646/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	575646

Metals

Prep Batch: 575433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	200.7	
MB 480-575433/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-575433/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 575597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	
MB 480-575597/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-575597/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 575742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	200.7 Rev 4.4	575433
MB 480-575433/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	575433
LCS 480-575433/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	575433

Analysis Batch: 575839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	575597
MB 480-575597/1-A	Method Blank	Total/NA	Water	245.1	575597
LCS 480-575597/2-A	Lab Control Sample	Total/NA	Water	245.1	575597

General Chemistry

Prep Batch: 575486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 575486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-575486/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-575486/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-182858-6 MS	COMPOSITE 001 1-4	Total/NA	Water	Distill/CN	

Analysis Batch: 575676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	335.4	575486
MB 480-575486/1-A	Method Blank	Total/NA	Water	335.4	575486
LCS 480-575486/2-A	Lab Control Sample	Total/NA	Water	335.4	575486
480-182858-6 MS	COMPOSITE 001 1-4	Total/NA	Water	335.4	575486

Analysis Batch: 575899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182858-6	COMPOSITE 001 1-4	Total/NA	Water	SM 4500 H+ B	
LCS 480-575899/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-182858-5

Date Collected: 04/05/21 00:00
Matrix: Water
Date Received: 04/05/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	575141	04/06/21 14:00	WJD	TAL BUF

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-182858-6

Date Collected: 04/05/21 13:35
Matrix: Water
Date Received: 04/05/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	575141	04/06/21 14:24	WJD	TAL BUF
Total/NA	Prep	625			575646	04/08/21 15:18	ATG	TAL BUF
Total/NA	Analysis	625.1		1	575796	04/09/21 18:26	PJQ	TAL BUF
Total/NA	Prep	200.7			575433	04/08/21 07:55	KMP	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	575742	04/08/21 18:10	LMH	TAL BUF
Total/NA	Prep	245.1			575597	04/09/21 13:37	BMB	TAL BUF
Total/NA	Analysis	245.1		1	575839	04/09/21 16:30	BMB	TAL BUF
Total/NA	Prep	Distill/CN			575486	04/07/21 22:33	ALT	TAL BUF
Total/NA	Analysis	335.4		1	575676	04/08/21 17:14	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	575899	04/11/21 10:32	KEB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-182858-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182858-5	TRIP BLANK	Water	04/05/21 00:00	04/05/21 14:15	
480-182858-6	COMPOSITE 001 1-4	Water	04/05/21 13:35	04/05/21 14:15	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153386-34075.1
Client Contact: Jason Gutkowski	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, M - Hexane, N - None, O - AsNaO2
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

480-182858 Chain of Custody

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	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	4/5/21	0735	G	Water			X	X	X	X	X		Lab To
001-2		0935					X	X	X	X	X		Composite
001-3		1135					X	X	X	X	X		Samples
001-4		1335					X	X	X	X	X		
Trip Blank	—	—	—								X		*Short Hold Time

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
[signature]	4/5/21 1358	Arcadis	[signature]	4/5/21 1415	EAB Buffalo
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.:	Cooler Temperature(s) °C and Other Remarks: 2.7 #1 ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-182858-1

Login Number: 182858

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-184164-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
5/14/2021 3:39:09 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
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

Job ID: 480-184164-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-184164-1

Receipt
The samples were received on 5/4/2021 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

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

GC/MS Semi VOA
Method 625.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-580182 and analytical batch 480-580295 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOSITE 001 1-4 (480-184164-6).

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

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-184164-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.48	J	1.0	0.32	ug/L	1		624.1	Total/NA

Client Sample ID: COMPOSITE 001 1-4 — Lab Sample ID: 480-184164-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.43	J	1.0	0.32	ug/L	1		624.1	Total/NA
Cyanide, Total	0.093	F1	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	17.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-184164-5

Date Collected: 05/04/21 00:00

Matrix: Water

Date Received: 05/04/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/07/21 13:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/07/21 13:13	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/07/21 13:13	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/07/21 13:13	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/07/21 13:13	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/21 13:13	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/07/21 13:13	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/07/21 13:13	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/07/21 13:13	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/07/21 13:13	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/21 13:13	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/07/21 13:13	1
Acrolein	ND		4.0	1.1	ug/L			05/07/21 13:13	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/07/21 13:13	1
Benzene	ND		1.0	0.43	ug/L			05/07/21 13:13	1
Bromoform	ND		1.0	0.54	ug/L			05/07/21 13:13	1
Bromomethane	ND		1.0	0.45	ug/L			05/07/21 13:13	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/07/21 13:13	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/07/21 13:13	1
Dibromochloromethane	ND		1.0	0.13	ug/L			05/07/21 13:13	1
Chloroethane	ND		1.0	0.32	ug/L			05/07/21 13:13	1
Chloroform	ND		1.0	0.33	ug/L			05/07/21 13:13	1
Chloromethane	ND		1.0	0.43	ug/L			05/07/21 13:13	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/07/21 13:13	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/07/21 13:13	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/07/21 13:13	1
Methylene Chloride	**0.48**	**J**	1.0	0.32	ug/L			05/07/21 13:13	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/07/21 13:13	1
Toluene	ND		1.0	0.38	ug/L			05/07/21 13:13	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/07/21 13:13	1
Trichloroethene	ND		1.0	0.31	ug/L			05/07/21 13:13	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			05/07/21 13:13	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/07/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*05/07/21 13:13*	*1*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/07/21 13:13*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*05/07/21 13:13*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*05/07/21 13:13*	*1*

Client Sample ID: COMPOSITE 001 1-4

Lab Sample ID: 480-184164-6

Date Collected: 05/04/21 13:00

Matrix: Water

Date Received: 05/04/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/07/21 13:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/07/21 13:38	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/07/21 13:38	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/07/21 13:38	1

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-184164-6
Date Collected: 05/04/21 13:00
Matrix: Water
Date Received: 05/04/21 13:20

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/07/21 13:38	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/21 13:38	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/07/21 13:38	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/07/21 13:38	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/07/21 13:38	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/07/21 13:38	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/21 13:38	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/07/21 13:38	1
Acrolein	ND		4.0	1.1	ug/L			05/07/21 13:38	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/07/21 13:38	1
Benzene	ND		1.0	0.43	ug/L			05/07/21 13:38	1
Bromoform	ND		1.0	0.54	ug/L			05/07/21 13:38	1
Bromomethane	ND		1.0	0.45	ug/L			05/07/21 13:38	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/07/21 13:38	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/07/21 13:38	1
Dibromochloromethane	ND		1.0	0.13	ug/L			05/07/21 13:38	1
Chloroethane	ND		1.0	0.32	ug/L			05/07/21 13:38	1
Chloroform	ND		1.0	0.33	ug/L			05/07/21 13:38	1
Chloromethane	ND		1.0	0.43	ug/L			05/07/21 13:38	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/07/21 13:38	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/07/21 13:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/07/21 13:38	1
Methylene Chloride	**0.43**	**J**	1.0	0.32	ug/L			05/07/21 13:38	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/07/21 13:38	1
Toluene	ND		1.0	0.38	ug/L			05/07/21 13:38	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/07/21 13:38	1
Trichloroethene	ND		1.0	0.31	ug/L			05/07/21 13:38	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			05/07/21 13:38	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/07/21 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*05/07/21 13:38*	*1*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/07/21 13:38*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*05/07/21 13:38*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*05/07/21 13:38*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		05/10/21 15:17	05/11/21 13:47	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		05/10/21 15:17	05/11/21 13:47	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		05/10/21 15:17	05/11/21 13:47	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-184164-6
Date Collected: 05/04/21 13:00
Matrix: Water
Date Received: 05/04/21 13:20

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		5.0	0.91	ug/L		05/10/21 15:17	05/11/21 13:47	1
2-Chlorophenol	ND		5.0	0.66	ug/L		05/10/21 15:17	05/11/21 13:47	1
2-Nitrophenol	ND		5.0	0.70	ug/L		05/10/21 15:17	05/11/21 13:47	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		05/10/21 15:17	05/11/21 13:47	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		05/10/21 15:17	05/11/21 13:47	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 13:47	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 13:47	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 13:47	1
4-Nitrophenol	ND		15	10	ug/L		05/10/21 15:17	05/11/21 13:47	1
Acenaphthene	ND		5.0	0.81	ug/L		05/10/21 15:17	05/11/21 13:47	1
Acenaphthylene	ND		5.0	0.87	ug/L		05/10/21 15:17	05/11/21 13:47	1
Anthracene	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzidine	ND		80	35	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 13:47	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 13:47	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		05/10/21 15:17	05/11/21 13:47	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		05/10/21 15:17	05/11/21 13:47	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		05/10/21 15:17	05/11/21 13:47	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 13:47	1
Chrysene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Decane	ND		10	1.6	ug/L		05/10/21 15:17	05/11/21 13:47	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		05/10/21 15:17	05/11/21 13:47	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 13:47	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 13:47	1
Diethyl phthalate	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		05/10/21 15:17	05/11/21 13:47	1
Fluoranthene	ND		5.0	1.6	ug/L		05/10/21 15:17	05/11/21 13:47	1
Fluorene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
Hexachloroethane	ND		5.0	0.60	ug/L		05/10/21 15:17	05/11/21 13:47	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 13:47	1
Isophorone	ND		5.0	0.74	ug/L		05/10/21 15:17	05/11/21 13:47	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		05/10/21 15:17	05/11/21 13:47	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 13:47	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		05/10/21 15:17	05/11/21 13:47	1
Naphthalene	ND		5.0	0.86	ug/L		05/10/21 15:17	05/11/21 13:47	1
Nitrobenzene	ND		5.0	0.81	ug/L		05/10/21 15:17	05/11/21 13:47	1
Pentachlorophenol	ND		10	1.6	ug/L		05/10/21 15:17	05/11/21 13:47	1
Phenanthrene	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 13:47	1
Phenol	ND		5.0	0.35	ug/L		05/10/21 15:17	05/11/21 13:47	1
Pyrene	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 13:47	1
n-Octadecane	ND		10	1.2	ug/L		05/10/21 15:17	05/11/21 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*52 - 151*	*05/10/21 15:17*	*05/11/21 13:47*	*1*

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-184164-6
Date Collected: 05/04/21 13:00
Matrix: Water
Date Received: 05/04/21 13:20

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*44 - 120*	*05/10/21 15:17*	*05/11/21 13:47*	*1*
2-Fluorophenol	*47*		*17 - 120*	*05/10/21 15:17*	*05/11/21 13:47*	*1*
Nitrobenzene-d5	*93*		*15 - 314*	*05/10/21 15:17*	*05/11/21 13:47*	*1*
p-Terphenyl-d14	*79*		*22 - 125*	*05/10/21 15:17*	*05/11/21 13:47*	*1*
Phenol-d5	*32*		*8 - 424*	*05/10/21 15:17*	*05/11/21 13:47*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		05/06/21 14:12	05/08/21 12:43	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/07/21 13:49	05/10/21 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.093**	**F1**	0.010	0.0050	mg/L		05/06/21 15:15	05/07/21 18:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.0**	**HF**	0.1	0.1	SU			05/13/21 14:51	1
Temperature	**17.2**	**HF**	0.001	0.001	Degrees C			05/13/21 14:51	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-184164-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
480-184164-5	TRIP BLANK	104	113	99	109
480-184164-6	COMPOSITE 001 1-4	109	113	97	111
LCS 460-776384/4	Lab Control Sample	109	108	99	111
LCSD 460-776384/5	Lab Control Sample Dup	107	113	100	109
MB 460-776384/8	Method Blank	111	111	99	110

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-184164-6	COMPOSITE 001 1-4	102	94	47	93	79	32
LCS 480-580182/2-A	Lab Control Sample	107	101	53	91	108	37
MB 480-580182/1-A	Method Blank	94	96	52	93	107	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-776384/8
Matrix: Water
Analysis Batch: 776384

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/07/21 09:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/07/21 09:27	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/07/21 09:27	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/07/21 09:27	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/07/21 09:27	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/21 09:27	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/07/21 09:27	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/07/21 09:27	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/07/21 09:27	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/07/21 09:27	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/21 09:27	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/07/21 09:27	1
Acrolein	ND		4.0	1.1	ug/L			05/07/21 09:27	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/07/21 09:27	1
Benzene	ND		1.0	0.43	ug/L			05/07/21 09:27	1
Bromoform	ND		1.0	0.54	ug/L			05/07/21 09:27	1
Bromomethane	ND		1.0	0.45	ug/L			05/07/21 09:27	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/07/21 09:27	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/07/21 09:27	1
Dibromochloromethane	ND		1.0	0.13	ug/L			05/07/21 09:27	1
Chloroethane	ND		1.0	0.32	ug/L			05/07/21 09:27	1
Chloroform	ND		1.0	0.33	ug/L			05/07/21 09:27	1
Chloromethane	ND		1.0	0.43	ug/L			05/07/21 09:27	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/07/21 09:27	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/07/21 09:27	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/07/21 09:27	1
Methylene Chloride	ND		1.0	0.32	ug/L			05/07/21 09:27	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/07/21 09:27	1
Toluene	ND		1.0	0.38	ug/L			05/07/21 09:27	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/07/21 09:27	1
Trichloroethene	ND		1.0	0.31	ug/L			05/07/21 09:27	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			05/07/21 09:27	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/07/21 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*05/07/21 09:27*	*1*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/07/21 09:27*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*05/07/21 09:27*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*05/07/21 09:27*	*1*

Lab Sample ID: LCS 460-776384/4
Matrix: Water
Analysis Batch: 776384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	70 - 130
1,1,2,2-Tetrachloroethane	20.0	16.9		ug/L		85	60 - 140
1,1,2-Trichloroethane	20.0	17.5		ug/L		87	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-776384/4
Matrix: Water
Analysis Batch: 776384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	20.1		ug/L		100	70 - 130
1,1-Dichloroethene	20.0	22.7		ug/L		114	50 - 150
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	65 - 135
1,2-Dichloroethane	20.0	20.9		ug/L		105	70 - 130
1,2-Dichloroethene, Total	40.0	43.4		ug/L		109	60 - 140
1,2-Dichloropropane	20.0	18.7		ug/L		94	35 - 165
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	65 - 135
2-Chloroethyl vinyl ether	20.0	15.1		ug/L		76	0.1 - 225
Acrolein	40.0	25.5		ug/L		64	10 - 150
Acrylonitrile	200	147		ug/L		74	60 - 140
Benzene	20.0	19.4		ug/L		97	65 - 135
Bromoform	20.0	15.1		ug/L		75	70 - 130
Bromomethane	20.0	14.8		ug/L		74	15 - 185
Carbon tetrachloride	20.0	23.3		ug/L		116	70 - 130
Chlorobenzene	20.0	20.4		ug/L		102	65 - 135
Dibromochloromethane	20.0	17.3		ug/L		86	70 - 135
Chloroethane	20.0	18.0		ug/L		90	40 - 160
Chloroform	20.0	21.6		ug/L		108	70 - 135
Chloromethane	20.0	17.1		ug/L		86	0.1 - 205
cis-1,3-Dichloropropene	20.0	17.2		ug/L		86	25 - 175
Bromodichloromethane	20.0	19.3		ug/L		97	65 - 135
Ethylbenzene	20.0	19.9		ug/L		99	60 - 140
Methylene Chloride	20.0	21.1		ug/L		106	60 - 140
Tetrachloroethene	20.0	20.3		ug/L		101	70 - 130
Toluene	20.0	19.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	16.7		ug/L		83	50 - 150
Trichloroethene	20.0	20.5		ug/L		102	65 - 135
Trichlorofluoromethane	20.0	19.2		ug/L		96	50 - 150
Vinyl chloride	20.0	17.2		ug/L		86	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
4-Bromofluorobenzene	*108*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*111*		*60 - 140*

Lab Sample ID: LCSD 460-776384/5
Matrix: Water
Analysis Batch: 776384

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
1,1,1-Trichloroethane	20.0	22.8		ug/L		114	70 - 130	1	36
1,1,2,2-Tetrachloroethane	20.0	15.9		ug/L		80	60 - 140	6	61
1,1,2-Trichloroethane	20.0	17.3		ug/L		87	70 - 130	1	45
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	4	40
1,1-Dichloroethene	20.0	22.7		ug/L		113	50 - 150	0	32
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	65 - 135	1	57

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-776384/5
Matrix: Water
Analysis Batch: 776384

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
1,2-Dichloroethane	20.0	20.4		ug/L		102	70 - 130	3	49
1,2-Dichloroethene, Total	40.0	41.2		ug/L		103	60 - 140	5	50
1,2-Dichloropropane	20.0	17.6		ug/L		88	35 - 165	6	55
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130	0	43
1,4-Dichlorobenzene	20.0	20.5		ug/L		102	65 - 135	1	57
2-Chloroethyl vinyl ether	20.0	14.4		ug/L		72	0.1 - 225	5	71
Acrolein	40.0	25.4		ug/L		64	10 - 150	0	60
Acrylonitrile	200	140		ug/L		70	60 - 140	5	60
Benzene	20.0	19.0		ug/L		95	65 - 135	2	61
Bromoform	20.0	15.2		ug/L		76	70 - 130	1	42
Bromomethane	20.0	14.0		ug/L		70	15 - 185	5	61
Carbon tetrachloride	20.0	23.2		ug/L		116	70 - 130	0	41
Chlorobenzene	20.0	20.2		ug/L		101	65 - 135	1	53
Dibromochloromethane	20.0	17.3		ug/L		87	70 - 135	0	50
Chloroethane	20.0	17.5		ug/L		88	40 - 160	2	78
Chloroform	20.0	21.0		ug/L		105	70 - 135	3	54
Chloromethane	20.0	16.3		ug/L		82	0.1 - 205	5	60
cis-1,3-Dichloropropene	20.0	16.9		ug/L		85	25 - 175	2	58
Bromodichloromethane	20.0	18.6		ug/L		93	65 - 135	4	56
Ethylbenzene	20.0	19.6		ug/L		98	60 - 140	1	63
Methylene Chloride	20.0	20.4		ug/L		102	60 - 140	4	28
Tetrachloroethene	20.0	21.0		ug/L		105	70 - 130	3	39
Toluene	20.0	19.6		ug/L		98	70 - 130	0	41
trans-1,3-Dichloropropene	20.0	16.6		ug/L		83	50 - 150	0	86
Trichloroethene	20.0	19.9		ug/L		100	65 - 135	3	48
Trichlorofluoromethane	20.0	19.8		ug/L		99	50 - 150	3	84
Vinyl chloride	20.0	16.8		ug/L		84	5 - 195	2	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
4-Bromofluorobenzene	*113*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*109*		*60 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-580182/1-A
Matrix: Water
Analysis Batch: 580295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		05/10/21 15:17	05/11/21 11:44	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		05/10/21 15:17	05/11/21 11:44	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		05/10/21 15:17	05/11/21 11:44	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		05/10/21 15:17	05/11/21 11:44	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-580182/1-A
Matrix: Water
Analysis Batch: 580295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		05/10/21 15:17	05/11/21 11:44	1
2-Chlorophenol	ND		5.0	0.66	ug/L		05/10/21 15:17	05/11/21 11:44	1
2-Nitrophenol	ND		5.0	0.70	ug/L		05/10/21 15:17	05/11/21 11:44	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		05/10/21 15:17	05/11/21 11:44	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		05/10/21 15:17	05/11/21 11:44	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 11:44	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 11:44	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 11:44	1
4-Nitrophenol	ND		15	10	ug/L		05/10/21 15:17	05/11/21 11:44	1
Acenaphthene	ND		5.0	0.81	ug/L		05/10/21 15:17	05/11/21 11:44	1
Acenaphthylene	ND		5.0	0.87	ug/L		05/10/21 15:17	05/11/21 11:44	1
Anthracene	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzidine	ND		80	35	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 11:44	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		05/10/21 15:17	05/11/21 11:44	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		05/10/21 15:17	05/11/21 11:44	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		05/10/21 15:17	05/11/21 11:44	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		05/10/21 15:17	05/11/21 11:44	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		05/10/21 15:17	05/11/21 11:44	1
Chrysene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Decane	ND		10	1.6	ug/L		05/10/21 15:17	05/11/21 11:44	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		05/10/21 15:17	05/11/21 11:44	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 11:44	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 11:44	1
Diethyl phthalate	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		05/10/21 15:17	05/11/21 11:44	1
Fluoranthene	ND		5.0	1.6	ug/L		05/10/21 15:17	05/11/21 11:44	1
Fluorene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
Hexachloroethane	ND		5.0	0.60	ug/L		05/10/21 15:17	05/11/21 11:44	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		05/10/21 15:17	05/11/21 11:44	1
Isophorone	ND		5.0	0.74	ug/L		05/10/21 15:17	05/11/21 11:44	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		05/10/21 15:17	05/11/21 11:44	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		05/10/21 15:17	05/11/21 11:44	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		05/10/21 15:17	05/11/21 11:44	1
Naphthalene	ND		5.0	0.86	ug/L		05/10/21 15:17	05/11/21 11:44	1
Nitrobenzene	ND		5.0	0.81	ug/L		05/10/21 15:17	05/11/21 11:44	1
Pentachlorophenol	ND		10	1.6	ug/L		05/10/21 15:17	05/11/21 11:44	1
Phenanthrene	ND		5.0	1.2	ug/L		05/10/21 15:17	05/11/21 11:44	1
Phenol	ND		5.0	0.35	ug/L		05/10/21 15:17	05/11/21 11:44	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-580182/1-A
Matrix: Water
Analysis Batch: 580295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0	1.4	ug/L		05/10/21 15:17	05/11/21 11:44	1
n-Octadecane	ND		10	1.2	ug/L		05/10/21 15:17	05/11/21 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*52 - 151*	*05/10/21 15:17*	*05/11/21 11:44*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*05/10/21 15:17*	*05/11/21 11:44*	*1*
2-Fluorophenol	*52*		*17 - 120*	*05/10/21 15:17*	*05/11/21 11:44*	*1*
Nitrobenzene-d5	*93*		*15 - 314*	*05/10/21 15:17*	*05/11/21 11:44*	*1*
p-Terphenyl-d14	*107*		*22 - 125*	*05/10/21 15:17*	*05/11/21 11:44*	*1*
Phenol-d5	*35*		*8 - 424*	*05/10/21 15:17*	*05/11/21 11:44*	*1*

Lab Sample ID: LCS 480-580182/2-A
Matrix: Water
Analysis Batch: 580295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	42.3		ug/L		85	44 - 142
1,2-Dichlorobenzene	50.0	39.7		ug/L		79	32 - 129
1,3-Dichlorobenzene	50.0	39.2		ug/L		78	1 - 172
1,4-Dichlorobenzene	50.0	38.2		ug/L		76	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	43.2		ug/L		86	36 - 166
2,4,6-Trichlorophenol	50.0	52.1		ug/L		104	37 - 144
2,4-Dichlorophenol	50.0	46.2		ug/L		92	39 - 135
2,4-Dimethylphenol	50.0	47.6		ug/L		95	32 - 120
2,4-Dinitrophenol	100	99.8		ug/L		100	1 - 191
2,4-Dinitrotoluene	50.0	53.0		ug/L		106	39 - 139
2,6-Dinitrotoluene	50.0	52.6		ug/L		105	50 - 158
2-Chloronaphthalene	50.0	48.5		ug/L		97	60 - 120
2-Chlorophenol	50.0	42.0		ug/L		84	23 - 134
2-Nitrophenol	50.0	45.4		ug/L		91	29 - 182
3,3'-Dichlorobenzidine	100	93.2		ug/L		93	1 - 262
4,6-Dinitro-2-methylphenol	100	105		ug/L		105	1 - 181
4-Bromophenyl phenyl ether	50.0	53.0		ug/L		106	53 - 127
4-Chloro-3-methylphenol	50.0	47.1		ug/L		94	22 - 147
4-Chlorophenyl phenyl ether	50.0	51.3		ug/L		103	25 - 158
4-Nitrophenol	100	59.8		ug/L		60	1 - 132
Acenaphthene	50.0	50.3		ug/L		101	47 - 145
Acenaphthylene	50.0	49.2		ug/L		98	33 - 145
Anthracene	50.0	53.6		ug/L		107	27 - 133
Benzidine	100	ND		ug/L		17	1 - 120
Benzo[a]anthracene	50.0	53.9		ug/L		108	33 - 143
Benzo[a]pyrene	50.0	53.5		ug/L		107	17 - 163
Benzo[b]fluoranthene	50.0	50.3		ug/L		101	24 - 159
Benzo[g,h,i]perylene	50.0	51.9		ug/L		104	1 - 219
Benzo[k]fluoranthene	50.0	57.4		ug/L		115	11 - 162
Bis(2-chloroethoxy)methane	50.0	46.0		ug/L		92	33 - 184
Bis(2-chloroethyl)ether	50.0	44.9		ug/L		90	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	59.0		ug/L		118	8 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-580182/2-A
Matrix: Water
Analysis Batch: 580295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	50.0	57.7		ug/L		115	1 - 152
Chrysene	50.0	53.3		ug/L		107	17 - 168
Di-n-butyl phthalate	50.0	57.6		ug/L		115	1 - 120
Di-n-octyl phthalate	50.0	58.5		ug/L		117	4 - 146
Dibenz(a,h)anthracene	50.0	52.3		ug/L		105	1 - 227
Diethyl phthalate	50.0	56.0		ug/L		112	1 - 120
Dimethyl phthalate	50.0	53.2		ug/L		106	1 - 120
Fluoranthene	50.0	53.0		ug/L		106	26 - 137
Fluorene	50.0	51.6		ug/L		103	59 - 121
Hexachlorobenzene	50.0	53.5		ug/L		107	1 - 152
Hexachlorocyclopentadiene	50.0	44.7		ug/L		89	5 - 120
Hexachloroethane	50.0	37.1		ug/L		74	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	52.1		ug/L		104	1 - 171
Isophorone	50.0	48.5		ug/L		97	21 - 196
N-Nitrosodi-n-propylamine	50.0	45.8		ug/L		92	1 - 230
N-Nitrosodiphenylamine	50.0	53.1		ug/L		106	54 - 125
Naphthalene	50.0	42.8		ug/L		86	21 - 133
Nitrobenzene	50.0	44.8		ug/L		90	35 - 180
Pentachlorophenol	100	97.3		ug/L		97	14 - 176
Phenanthrene	50.0	53.2		ug/L		106	54 - 120
Phenol	50.0	19.6		ug/L		39	5 - 120
Pyrene	50.0	54.3		ug/L		109	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*107*		*52 - 151*
2-Fluorobiphenyl	*101*		*44 - 120*
2-Fluorophenol	*53*		*17 - 120*
Nitrobenzene-d5	*91*		*15 - 314*
p-Terphenyl-d14	*108*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-579669/1-A
Matrix: Water
Analysis Batch: 580107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		05/06/21 14:12	05/08/21 10:47	1

Lab Sample ID: LCS 480-579669/2-A
Matrix: Water
Analysis Batch: 580107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.196		mg/L		98	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-579951/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 580221
Prep Batch: 579951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		05/07/21 13:49	05/10/21 16:52	1

Lab Sample ID: LCS 480-579951/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 580221
Prep Batch: 579951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00712		mg/L		107	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-579712/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 579957
Prep Batch: 579712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		05/06/21 15:15	05/07/21 18:22	1

Lab Sample ID: LCS 480-579712/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 579957
Prep Batch: 579712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: 480-184164-6 MS
Client Sample ID: COMPOSITE 001 1-4
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 579957
Prep Batch: 579712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.093	F1	0.100	0.162	F1	mg/L		69	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-580786/1
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 580786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 776384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-5	TRIP BLANK	Total/NA	Water	624.1	
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	624.1	
MB 460-776384/8	Method Blank	Total/NA	Water	624.1	
LCS 460-776384/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-776384/5	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 580182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	625	
MB 480-580182/1-A	Method Blank	Total/NA	Water	625	
LCS 480-580182/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 580295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	625.1	580182
MB 480-580182/1-A	Method Blank	Total/NA	Water	625.1	580182
LCS 480-580182/2-A	Lab Control Sample	Total/NA	Water	625.1	580182

Metals

Prep Batch: 579669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	200.7	
MB 480-579669/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-579669/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 579951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	
MB 480-579951/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-579951/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 580107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	200.7 Rev 4.4	579669
MB 480-579669/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	579669
LCS 480-579669/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	579669

Analysis Batch: 580221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	579951
MB 480-579951/1-A	Method Blank	Total/NA	Water	245.1	579951
LCS 480-579951/2-A	Lab Control Sample	Total/NA	Water	245.1	579951

General Chemistry

Prep Batch: 579712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	Distill/CN	
MB 480-579712/1-A	Method Blank	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 579712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-579712/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-184164-6 MS	COMPOSITE 001 1-4	Total/NA	Water	Distill/CN	

Analysis Batch: 579957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	335.4	579712
MB 480-579712/1-A	Method Blank	Total/NA	Water	335.4	579712
LCS 480-579712/2-A	Lab Control Sample	Total/NA	Water	335.4	579712
480-184164-6 MS	COMPOSITE 001 1-4	Total/NA	Water	335.4	579712

Analysis Batch: 580786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184164-6	COMPOSITE 001 1-4	Total/NA	Water	SM 4500 H+ B	
LCS 480-580786/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-184164-5

Date Collected: 05/04/21 00:00
Matrix: Water
Date Received: 05/04/21 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	776384	05/07/21 13:13	CJM	TAL EDI

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-184164-6

Date Collected: 05/04/21 13:00
Matrix: Water
Date Received: 05/04/21 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	776384	05/07/21 13:38	CJM	TAL EDI
Total/NA	Prep	625			580182	05/10/21 15:17	ATG	TAL BUF
Total/NA	Analysis	625.1		1	580295	05/11/21 13:47	JMM	TAL BUF
Total/NA	Prep	200.7			579669	05/06/21 14:12	KMP	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	580107	05/08/21 12:43	LMH	TAL BUF
Total/NA	Prep	245.1			579951	05/07/21 13:49	BMB	TAL BUF
Total/NA	Analysis	245.1		1	580221	05/10/21 17:19	BMB	TAL BUF
Total/NA	Prep	Distill/CN			579712	05/06/21 15:15	JPS	TAL BUF
Total/NA	Analysis	335.4		1	579957	05/07/21 18:57	SRA	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	580786	05/13/21 14:51	DLG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-184164-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-184164-5	TRIP BLANK	Water	05/04/21 00:00	05/04/21 13:20	
480-184164-6	COMPOSITE 001 1-4	Water	05/04/21 13:00	05/04/21 13:20	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153387-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP ... drate

480-184164 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	5/4/21	0700	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2		0900					X	X	X	X	X		
001-3		1100					X	X	X	X	X		
001-4		1300					X	X	X	X	X		
Trip Blank	—	—	—								X		
													Short Hold Time

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
Jason Gutkowski	5/4/21 / 1320	Arcadis	[signature]	5/4/21 1320	TAS
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.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153387-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St. Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: ∆ Yes ∆ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4

480-184164 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total	Special Instructions/Note:
Preservation Code:							D	B	N	N	N		
001-1	5/4/21	0700	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2	↓	0900	↓	↓			X	X	X	X	X		
001-3		1100					X	X	X	X	X		
001-4		1300					X	X	X	X	X		
Trip Blank	—	—	—								X		Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Jason Gutkowski	5/4/21 / 1320	Arcadis		5/4/21 @320	TAS
	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.:

Cooler Temperature(s) °C and Other Remarks: 32 #1 ICE

Ver: 11 01 2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-63416.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-184164-1
Address: 777 New Durham Road, ,	Due Date Requested: 5/17/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Iroquois Gas/Westwood Pharm.	Project #: 48011056			
Site:	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 - 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)	624.1_PREC/624_Prep_3D (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
COMPOSITE 001 1-4 (480-184164-6)	5/4/21	13:00 Eastern		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
Matthew Ciriello	5/6/2021 1700	TA	Adriana via Fedex	5/7/21 945	TAE
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.: 1452889	Cooler Temperature(s) °C and Other Remarks: 5.5°C/5.0°C

Ver: 11/01/2020

5/14/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-184164-1

Login Number: 184164

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	False	lab composite grabs
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-184164-1

Login Number: 184164
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 05/07/21 12:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1452889
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	5.0°C
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.	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.	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	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-185428-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
6/16/2021 6:42:37 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
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

Job ID: 480-185428-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185428-1

Comments
No additional comments.

Receipt
The samples were received on 6/1/2021 3:42 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 624.1: The continuing calibration verification (CCV) associated with batch 460-782070 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

Method 624.1: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-782070 recovered outside control limits for Acrolein. The analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-583856 and analytical batch 480-583980 recovered outside control limits for the following analytes: Benzidine.

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

Metals
Method 200.7: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: COMPOSITE (480-185428-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. Preserved 6/14/21 at 1130. Second check 6/15/21 at 1140.

Method 245.1: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: COMPOSITE (480-185428-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. preserved 6/14/21 at 1130

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

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOSITE (480-185428-6).

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

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Trip Blank — Lab Sample ID: 480-185428-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.8		1.0	0.32	ug/L	1		624.1	Total/NA

Client Sample ID: COMPOSITE — Lab Sample ID: 480-185428-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.39	J	1.0	0.32	ug/L	1		624.1	Total/NA
Cyanide, Total	0.067	B	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.0	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank
Lab Sample ID: 480-185428-5

Date Collected: 06/01/21 00:00
Matrix: Water
Date Received: 06/01/21 15:42

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/03/21 22:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/03/21 22:39	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/03/21 22:39	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/03/21 22:39	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/03/21 22:39	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/03/21 22:39	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/03/21 22:39	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			06/03/21 22:39	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/03/21 22:39	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/03/21 22:39	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/03/21 22:39	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/03/21 22:39	1
Acrolein	ND	*+	4.0	1.1	ug/L			06/03/21 22:39	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/03/21 22:39	1
Benzene	ND		1.0	0.43	ug/L			06/03/21 22:39	1
Bromoform	ND		1.0	0.54	ug/L			06/03/21 22:39	1
Bromomethane	ND		1.0	0.45	ug/L			06/03/21 22:39	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/03/21 22:39	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/03/21 22:39	1
Dibromochloromethane	ND		1.0	0.13	ug/L			06/03/21 22:39	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/21 22:39	1
Chloroform	ND		1.0	0.33	ug/L			06/03/21 22:39	1
Chloromethane	ND		1.0	0.43	ug/L			06/03/21 22:39	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/03/21 22:39	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/03/21 22:39	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/03/21 22:39	1
Methylene Chloride	**1.8**		1.0	0.32	ug/L			06/03/21 22:39	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/03/21 22:39	1
Toluene	ND		1.0	0.38	ug/L			06/03/21 22:39	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/03/21 22:39	1
Trichloroethene	ND		1.0	0.31	ug/L			06/03/21 22:39	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/03/21 22:39	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/03/21 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 140*		*06/03/21 22:39*	*1*
4-Bromofluorobenzene	*91*		*60 - 140*		*06/03/21 22:39*	*1*
Toluene-d8 (Surr)	*88*		*60 - 140*		*06/03/21 22:39*	*1*
Dibromofluoromethane (Surr)	*90*		*60 - 140*		*06/03/21 22:39*	*1*

Client Sample ID: COMPOSITE
Lab Sample ID: 480-185428-6

Date Collected: 06/01/21 15:30
Matrix: Water
Date Received: 06/01/21 15:42

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/04/21 00:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/04/21 00:32	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/04/21 00:32	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/04/21 00:32	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-185428-1

Client Sample ID: COMPOSITE
Date Collected: 06/01/21 15:30
Date Received: 06/01/21 15:42

Lab Sample ID: 480-185428-6
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/04/21 00:32	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/04/21 00:32	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/04/21 00:32	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			06/04/21 00:32	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/04/21 00:32	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/04/21 00:32	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/04/21 00:32	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/04/21 00:32	1
Acrolein	ND	*+	4.0	1.1	ug/L			06/04/21 00:32	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/04/21 00:32	1
Benzene	ND		1.0	0.43	ug/L			06/04/21 00:32	1
Bromoform	ND		1.0	0.54	ug/L			06/04/21 00:32	1
Bromomethane	ND		1.0	0.45	ug/L			06/04/21 00:32	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/04/21 00:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/04/21 00:32	1
Dibromochloromethane	ND		1.0	0.13	ug/L			06/04/21 00:32	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/21 00:32	1
Chloroform	ND		1.0	0.33	ug/L			06/04/21 00:32	1
Chloromethane	ND		1.0	0.43	ug/L			06/04/21 00:32	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/04/21 00:32	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/04/21 00:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/04/21 00:32	1
Methylene Chloride	**0.39**	**J**	1.0	0.32	ug/L			06/04/21 00:32	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/04/21 00:32	1
Toluene	ND		1.0	0.38	ug/L			06/04/21 00:32	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/04/21 00:32	1
Trichloroethene	ND		1.0	0.31	ug/L			06/04/21 00:32	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/04/21 00:32	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/04/21 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*60 - 140*		*06/04/21 00:32*	*1*
4-Bromofluorobenzene	*74*		*60 - 140*		*06/04/21 00:32*	*1*
Toluene-d8 (Surr)	*74*		*60 - 140*		*06/04/21 00:32*	*1*
Dibromofluoromethane (Surr)	*77*		*60 - 140*		*06/04/21 00:32*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		06/03/21 15:41	06/04/21 20:55	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		06/03/21 15:41	06/04/21 20:55	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		06/03/21 15:41	06/04/21 20:55	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-185428-1

Client Sample ID: COMPOSITE
Date Collected: 06/01/21 15:30
Date Received: 06/01/21 15:42

Lab Sample ID: 480-185428-6
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		5.0	0.91	ug/L		06/03/21 15:41	06/04/21 20:55	1
2-Chlorophenol	ND		5.0	0.66	ug/L		06/03/21 15:41	06/04/21 20:55	1
2-Nitrophenol	ND		5.0	0.70	ug/L		06/03/21 15:41	06/04/21 20:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		06/03/21 15:41	06/04/21 20:55	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		06/03/21 15:41	06/04/21 20:55	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 20:55	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 20:55	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 20:55	1
4-Nitrophenol	ND		15	10	ug/L		06/03/21 15:41	06/04/21 20:55	1
Acenaphthene	ND		5.0	0.81	ug/L		06/03/21 15:41	06/04/21 20:55	1
Acenaphthylene	ND		5.0	0.87	ug/L		06/03/21 15:41	06/04/21 20:55	1
Anthracene	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzidine	ND	*1	80	35	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 20:55	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 20:55	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		06/03/21 15:41	06/04/21 20:55	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		06/03/21 15:41	06/04/21 20:55	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		06/03/21 15:41	06/04/21 20:55	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 20:55	1
Chrysene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Decane	ND		10	1.6	ug/L		06/03/21 15:41	06/04/21 20:55	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		06/03/21 15:41	06/04/21 20:55	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 20:55	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 20:55	1
Diethyl phthalate	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		06/03/21 15:41	06/04/21 20:55	1
Fluoranthene	ND		5.0	1.6	ug/L		06/03/21 15:41	06/04/21 20:55	1
Fluorene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
Hexachloroethane	ND		5.0	0.60	ug/L		06/03/21 15:41	06/04/21 20:55	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 20:55	1
Isophorone	ND		5.0	0.74	ug/L		06/03/21 15:41	06/04/21 20:55	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		06/03/21 15:41	06/04/21 20:55	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 20:55	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		06/03/21 15:41	06/04/21 20:55	1
Naphthalene	ND		5.0	0.86	ug/L		06/03/21 15:41	06/04/21 20:55	1
Nitrobenzene	ND		5.0	0.81	ug/L		06/03/21 15:41	06/04/21 20:55	1
Pentachlorophenol	ND		10	1.6	ug/L		06/03/21 15:41	06/04/21 20:55	1
Phenanthrene	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 20:55	1
Phenol	ND		5.0	0.35	ug/L		06/03/21 15:41	06/04/21 20:55	1
Pyrene	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 20:55	1
n-Octadecane	ND		10	1.2	ug/L		06/03/21 15:41	06/04/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*52 - 151*	*06/03/21 15:41*	*06/04/21 20:55*	*1*

Client Sample ID: COMPOSITE
Lab Sample ID: 480-185428-6

Date Collected: 06/01/21 15:30
Matrix: Water
Date Received: 06/01/21 15:42

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*44 - 120*	*06/03/21 15:41*	*06/04/21 20:55*	*1*
2-Fluorophenol	*55*		*17 - 120*	*06/03/21 15:41*	*06/04/21 20:55*	*1*
Nitrobenzene-d5	*87*		*15 - 314*	*06/03/21 15:41*	*06/04/21 20:55*	*1*
p-Terphenyl-d14	*90*		*22 - 125*	*06/03/21 15:41*	*06/04/21 20:55*	*1*
Phenol-d5	*40*		*8 - 424*	*06/03/21 15:41*	*06/04/21 20:55*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		06/15/21 11:59	06/16/21 15:05	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/15/21 13:54	06/15/21 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.067**	**B**	0.010	0.0050	mg/L		06/07/21 14:21	06/07/21 17:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**	**HF**	0.1	0.1	SU			06/08/21 10:30	1
Temperature	**22.0**	**HF**	0.001	0.001	Degrees C			06/08/21 10:30	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
480-185428-5	Trip Blank	82	91	88	90
480-185428-6	COMPOSITE	75	74	74	77
LCS 460-782070/3	Lab Control Sample	81	84	85	85
LCSD 460-782070/7	Lab Control Sample Dup	87	89	88	88
MB 460-782070/10	Method Blank	98	96	99	101

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-185428-6	COMPOSITE	92	93	55	87	90	40
LCS 480-583856/2-A	Lab Control Sample	106	96	55	85	103	40
LCSD 480-583856/3-A	Lab Control Sample Dup	104	97	51	87	106	37
MB 480-583856/1-A	Method Blank	95	92	56	90	107	38

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-782070/10
Matrix: Water
Analysis Batch: 782070

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/03/21 22:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/03/21 22:16	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/03/21 22:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/03/21 22:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/03/21 22:16	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/03/21 22:16	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/03/21 22:16	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			06/03/21 22:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/03/21 22:16	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/03/21 22:16	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/03/21 22:16	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/03/21 22:16	1
Acrolein	ND		4.0	1.1	ug/L			06/03/21 22:16	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/03/21 22:16	1
Benzene	ND		1.0	0.43	ug/L			06/03/21 22:16	1
Bromoform	ND		1.0	0.54	ug/L			06/03/21 22:16	1
Bromomethane	ND		1.0	0.45	ug/L			06/03/21 22:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/03/21 22:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/03/21 22:16	1
Dibromochloromethane	ND		1.0	0.13	ug/L			06/03/21 22:16	1
Chloroethane	ND		1.0	0.32	ug/L			06/03/21 22:16	1
Chloroform	ND		1.0	0.33	ug/L			06/03/21 22:16	1
Chloromethane	ND		1.0	0.43	ug/L			06/03/21 22:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/03/21 22:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/03/21 22:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/03/21 22:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/03/21 22:16	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/03/21 22:16	1
Toluene	ND		1.0	0.38	ug/L			06/03/21 22:16	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/03/21 22:16	1
Trichloroethene	ND		1.0	0.31	ug/L			06/03/21 22:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/03/21 22:16	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/03/21 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*06/03/21 22:16*	*1*
4-Bromofluorobenzene	*96*		*60 - 140*		*06/03/21 22:16*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*06/03/21 22:16*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*06/03/21 22:16*	*1*

Lab Sample ID: LCS 460-782070/3
Matrix: Water
Analysis Batch: 782070

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	60 - 140
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-782070/3
Matrix: Water
Analysis Batch: 782070

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	20.7		ug/L		103	70 - 130
1,1-Dichloroethene	20.0	19.3		ug/L		97	50 - 150
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135
1,2-Dichloroethane	20.0	19.6		ug/L		98	70 - 130
1,2-Dichloroethene, Total	40.0	40.6		ug/L		101	60 - 140
1,2-Dichloropropane	20.0	20.3		ug/L		102	35 - 165
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135
2-Chloroethyl vinyl ether	20.0	18.5		ug/L		92	0.1 - 225
Acrolein	40.6	70.9	*+	ug/L		175	10 - 150
Acrylonitrile	200	218		ug/L		109	60 - 140
Benzene	20.0	20.4		ug/L		102	65 - 135
Bromoform	20.0	18.5		ug/L		92	70 - 130
Bromomethane	20.0	19.3		ug/L		97	15 - 185
Carbon tetrachloride	20.0	19.9		ug/L		100	70 - 130
Chlorobenzene	20.0	20.5		ug/L		102	65 - 135
Dibromochloromethane	20.0	20.6		ug/L		103	70 - 135
Chloroethane	20.0	20.0		ug/L		100	40 - 160
Chloroform	20.0	20.5		ug/L		103	70 - 135
Chloromethane	20.0	16.7		ug/L		84	0.1 - 205
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	25 - 175
Bromodichloromethane	20.0	19.2		ug/L		96	65 - 135
Ethylbenzene	20.0	19.8		ug/L		99	60 - 140
Methylene Chloride	20.0	20.8		ug/L		104	60 - 140
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 130
Toluene	20.0	19.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	19.2		ug/L		96	50 - 150
Trichloroethene	20.0	19.8		ug/L		99	65 - 135
Trichlorofluoromethane	20.0	19.0		ug/L		95	50 - 150
Vinyl chloride	20.0	19.1		ug/L		96	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 140*
4-Bromofluorobenzene	*84*		*60 - 140*
Toluene-d8 (Surr)	*85*		*60 - 140*
Dibromofluoromethane (Surr)	*85*		*60 - 140*

Lab Sample ID: LCSD 460-782070/7
Matrix: Water
Analysis Batch: 782070

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
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	70 - 130	2	36
1,1,2,2-Tetrachloroethane	20.0	17.1		ug/L		85	60 - 140	11	61
1,1,2-Trichloroethane	20.0	19.1		ug/L		96	70 - 130	4	45
1,1-Dichloroethane	20.0	19.7		ug/L		98	70 - 130	5	40
1,1-Dichloroethene	20.0	18.6		ug/L		93	50 - 150	4	32
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	65 - 135	5	57

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-782070/7
Matrix: Water
Analysis Batch: 782070

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
1,2-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	4	49
1,2-Dichloroethene, Total	40.0	39.0		ug/L		98	60 - 140	4	50
1,2-Dichloropropane	20.0	19.6		ug/L		98	35 - 165	4	55
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130	5	43
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	65 - 135	4	57
2-Chloroethyl vinyl ether	20.0	17.2		ug/L		86	0.1 - 225	8	71
Acrolein	40.6	63.6	*+	ug/L		157	10 - 150	11	60
Acrylonitrile	200	207		ug/L		104	60 - 140	5	60
Benzene	20.0	19.7		ug/L		98	65 - 135	3	61
Bromoform	20.0	17.2		ug/L		86	70 - 130	7	42
Bromomethane	20.0	18.8		ug/L		94	15 - 185	3	61
Carbon tetrachloride	20.0	18.3		ug/L		92	70 - 130	8	41
Chlorobenzene	20.0	20.0		ug/L		100	65 - 135	2	53
Dibromochloromethane	20.0	19.3		ug/L		96	70 - 135	6	50
Chloroethane	20.0	18.7		ug/L		93	40 - 160	7	78
Chloroform	20.0	19.6		ug/L		98	70 - 135	4	54
Chloromethane	20.0	17.9		ug/L		90	0.1 - 205	7	60
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	25 - 175	6	58
Bromodichloromethane	20.0	18.2		ug/L		91	65 - 135	5	56
Ethylbenzene	20.0	18.8		ug/L		94	60 - 140	5	63
Methylene Chloride	20.0	20.2		ug/L		101	60 - 140	3	28
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 130	7	39
Toluene	20.0	18.9		ug/L		95	70 - 130	5	41
trans-1,3-Dichloropropene	20.0	17.2		ug/L		86	50 - 150	11	86
Trichloroethene	20.0	19.2		ug/L		96	65 - 135	3	48
Trichlorofluoromethane	20.0	17.0		ug/L		85	50 - 150	11	84
Vinyl chloride	20.0	18.7		ug/L		94	5 - 195	2	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 140*
4-Bromofluorobenzene	*89*		*60 - 140*
Toluene-d8 (Surr)	*88*		*60 - 140*
Dibromofluoromethane (Surr)	*88*		*60 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-583856/1-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.82	ug/L		06/03/21 15:41	06/04/21 18:03	1
1,2-Dichlorobenzene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
1,2-Diphenylhydrazine	ND		10	0.78	ug/L		06/03/21 15:41	06/04/21 18:03	1
1,3-Dichlorobenzene	ND		10	0.69	ug/L		06/03/21 15:41	06/04/21 18:03	1
1,4-Dichlorobenzene	ND		10	5.6	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.84	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,4,6-Trichlorophenol	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,4-Dichlorophenol	ND		5.0	0.77	ug/L		06/03/21 15:41	06/04/21 18:03	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-583856/1-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,4-Dinitrophenol	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,4-Dinitrotoluene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
2,6-Dinitrotoluene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
2-Chloronaphthalene	ND		5.0	0.91	ug/L		06/03/21 15:41	06/04/21 18:03	1
2-Chlorophenol	ND		5.0	0.66	ug/L		06/03/21 15:41	06/04/21 18:03	1
2-Nitrophenol	ND		5.0	0.70	ug/L		06/03/21 15:41	06/04/21 18:03	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		06/03/21 15:41	06/04/21 18:03	1
4,6-Dinitro-2-methylphenol	ND		10	0.66	ug/L		06/03/21 15:41	06/04/21 18:03	1
4-Bromophenyl phenyl ether	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 18:03	1
4-Chloro-3-methylphenol	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 18:03	1
4-Chlorophenyl phenyl ether	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 18:03	1
4-Nitrophenol	ND		15	10	ug/L		06/03/21 15:41	06/04/21 18:03	1
Acenaphthene	ND		5.0	0.81	ug/L		06/03/21 15:41	06/04/21 18:03	1
Acenaphthylene	ND		5.0	0.87	ug/L		06/03/21 15:41	06/04/21 18:03	1
Anthracene	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzidine	ND		80	35	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzo[a]anthracene	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzo[a]pyrene	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzo[b]fluoranthene	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 18:03	1
Benzo[k]fluoranthene	ND		5.0	1.3	ug/L		06/03/21 15:41	06/04/21 18:03	1
Bis(2-chloroethoxy)methane	ND		5.0	0.75	ug/L		06/03/21 15:41	06/04/21 18:03	1
Bis(2-chloroethyl)ether	ND		5.0	0.93	ug/L		06/03/21 15:41	06/04/21 18:03	1
Bis(2-ethylhexyl) phthalate	ND		10	1.2	ug/L		06/03/21 15:41	06/04/21 18:03	1
Butyl benzyl phthalate	ND		5.0	1.1	ug/L		06/03/21 15:41	06/04/21 18:03	1
Chrysene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Decane	ND		10	1.6	ug/L		06/03/21 15:41	06/04/21 18:03	1
Di-n-butyl phthalate	ND		5.0	1.6	ug/L		06/03/21 15:41	06/04/21 18:03	1
Di-n-octyl phthalate	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 18:03	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 18:03	1
Diethyl phthalate	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Dimethyl phthalate	ND		5.0	0.91	ug/L		06/03/21 15:41	06/04/21 18:03	1
Fluoranthene	ND		5.0	1.6	ug/L		06/03/21 15:41	06/04/21 18:03	1
Fluorene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Hexachlorobenzene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Hexachlorocyclopentadiene	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
Hexachloroethane	ND		5.0	0.60	ug/L		06/03/21 15:41	06/04/21 18:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/L		06/03/21 15:41	06/04/21 18:03	1
Isophorone	ND		5.0	0.74	ug/L		06/03/21 15:41	06/04/21 18:03	1
N-Nitrosodi-n-propylamine	ND		5.0	0.89	ug/L		06/03/21 15:41	06/04/21 18:03	1
N-Nitrosodimethylamine	ND		10	5.0	ug/L		06/03/21 15:41	06/04/21 18:03	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		06/03/21 15:41	06/04/21 18:03	1
Naphthalene	ND		5.0	0.86	ug/L		06/03/21 15:41	06/04/21 18:03	1
Nitrobenzene	ND		5.0	0.81	ug/L		06/03/21 15:41	06/04/21 18:03	1
Pentachlorophenol	ND		10	1.6	ug/L		06/03/21 15:41	06/04/21 18:03	1
Phenanthrene	ND		5.0	1.2	ug/L		06/03/21 15:41	06/04/21 18:03	1
Phenol	ND		5.0	0.35	ug/L		06/03/21 15:41	06/04/21 18:03	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-583856/1-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0	1.4	ug/L		06/03/21 15:41	06/04/21 18:03	1
n-Octadecane	ND		10	1.2	ug/L		06/03/21 15:41	06/04/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*52 - 151*	*06/03/21 15:41*	*06/04/21 18:03*	*1*
2-Fluorobiphenyl	*92*		*44 - 120*	*06/03/21 15:41*	*06/04/21 18:03*	*1*
2-Fluorophenol	*56*		*17 - 120*	*06/03/21 15:41*	*06/04/21 18:03*	*1*
Nitrobenzene-d5	*90*		*15 - 314*	*06/03/21 15:41*	*06/04/21 18:03*	*1*
p-Terphenyl-d14	*107*		*22 - 125*	*06/03/21 15:41*	*06/04/21 18:03*	*1*
Phenol-d5	*38*		*8 - 424*	*06/03/21 15:41*	*06/04/21 18:03*	*1*

Lab Sample ID: LCS 480-583856/2-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	44.4		ug/L		89	44 - 142
1,2-Dichlorobenzene	50.0	38.8		ug/L		78	32 - 129
1,3-Dichlorobenzene	50.0	37.9		ug/L		76	1 - 172
1,4-Dichlorobenzene	50.0	39.2		ug/L		78	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	44.6		ug/L		89	36 - 166
2,4,6-Trichlorophenol	50.0	49.7		ug/L		99	37 - 144
2,4-Dichlorophenol	50.0	50.3		ug/L		101	39 - 135
2,4-Dimethylphenol	50.0	47.1		ug/L		94	32 - 120
2,4-Dinitrophenol	100	106		ug/L		106	1 - 191
2,4-Dinitrotoluene	50.0	51.3		ug/L		103	39 - 139
2,6-Dinitrotoluene	50.0	49.9		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	46.4		ug/L		93	60 - 120
2-Chlorophenol	50.0	42.6		ug/L		85	23 - 134
2-Nitrophenol	50.0	48.4		ug/L		97	29 - 182
3,3'-Dichlorobenzidine	100	100		ug/L		100	1 - 262
4,6-Dinitro-2-methylphenol	100	106		ug/L		106	1 - 181
4-Bromophenyl phenyl ether	50.0	50.7		ug/L		101	53 - 127
4-Chloro-3-methylphenol	50.0	49.1		ug/L		98	22 - 147
4-Chlorophenyl phenyl ether	50.0	46.6		ug/L		93	25 - 158
4-Nitrophenol	100	52.8		ug/L		53	1 - 132
Acenaphthene	50.0	49.8		ug/L		100	47 - 145
Acenaphthylene	50.0	46.8		ug/L		94	33 - 145
Anthracene	50.0	51.9		ug/L		104	27 - 133
Benzidine	100	ND		ug/L		4	1 - 120
Benzo[a]anthracene	50.0	51.2		ug/L		102	33 - 143
Benzo[a]pyrene	50.0	51.5		ug/L		103	17 - 163
Benzo[b]fluoranthene	50.0	54.7		ug/L		109	24 - 159
Benzo[g,h,i]perylene	50.0	52.3		ug/L		105	1 - 219
Benzo[k]fluoranthene	50.0	49.8		ug/L		100	11 - 162
Bis(2-chloroethoxy)methane	50.0	45.5		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	50.0	45.4		ug/L		91	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	51.6		ug/L		103	8 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-583856/2-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	50.0	50.2		ug/L		100	1 - 152
Chrysene	50.0	51.9		ug/L		104	17 - 168
Di-n-butyl phthalate	50.0	53.0		ug/L		106	1 - 120
Di-n-octyl phthalate	50.0	51.6		ug/L		103	4 - 146
Dibenz(a,h)anthracene	50.0	53.6		ug/L		107	1 - 227
Diethyl phthalate	50.0	50.4		ug/L		101	1 - 120
Dimethyl phthalate	50.0	51.9		ug/L		104	1 - 120
Fluoranthene	50.0	52.5		ug/L		105	26 - 137
Fluorene	50.0	50.5		ug/L		101	59 - 121
Hexachlorobenzene	50.0	50.5		ug/L		101	1 - 152
Hexachlorocyclopentadiene	50.0	35.6		ug/L		71	5 - 120
Hexachloroethane	50.0	36.3		ug/L		73	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.2		ug/L		106	1 - 171
Isophorone	50.0	47.4		ug/L		95	21 - 196
N-Nitrosodi-n-propylamine	50.0	49.1		ug/L		98	1 - 230
N-Nitrosodiphenylamine	50.0	49.4		ug/L		99	54 - 125
Naphthalene	50.0	45.2		ug/L		90	21 - 133
Nitrobenzene	50.0	43.7		ug/L		87	35 - 180
Pentachlorophenol	100	87.5		ug/L		87	14 - 176
Phenanthrene	50.0	51.2		ug/L		102	54 - 120
Phenol	50.0	21.7		ug/L		43	5 - 120
Pyrene	50.0	52.6		ug/L		105	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*52 - 151*
2-Fluorobiphenyl	*96*		*44 - 120*
2-Fluorophenol	*55*		*17 - 120*
Nitrobenzene-d5	*85*		*15 - 314*
p-Terphenyl-d14	*103*		*22 - 125*
Phenol-d5	*40*		*8 - 424*

Lab Sample ID: LCSD 480-583856/3-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 583856

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	41.4		ug/L		83	44 - 142	7	34
1,2-Dichlorobenzene	50.0	39.2		ug/L		78	32 - 129	1	38
1,3-Dichlorobenzene	50.0	37.0		ug/L		74	1 - 172	2	37
1,4-Dichlorobenzene	50.0	35.3		ug/L		71	20 - 124	10	40
2,2'-Oxybis(1-chloropropane)	50.0	42.1		ug/L		84	36 - 166	6	36
2,4,6-Trichlorophenol	50.0	49.5		ug/L		99	37 - 144	0	20
2,4-Dichlorophenol	50.0	47.6		ug/L		95	39 - 135	6	23
2,4-Dimethylphenol	50.0	46.7		ug/L		93	32 - 120	1	18
2,4-Dinitrophenol	100	114		ug/L		114	1 - 191	7	29
2,4-Dinitrotoluene	50.0	53.2		ug/L		106	39 - 139	4	20
2,6-Dinitrotoluene	50.0	50.2		ug/L		100	50 - 158	1	17
2-Chloronaphthalene	50.0	45.2		ug/L		90	60 - 120	3	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-583856/3-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 583856

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol			50.0	40.8		ug/L		82	23 - 134	4	26
2-Nitrophenol			50.0	45.7		ug/L		91	29 - 182	6	28
3,3'-Dichlorobenzidine			100	102		ug/L		102	1 - 262	2	31
4,6-Dinitro-2-methylphenol			100	106		ug/L		106	1 - 181	0	30
4-Bromophenyl phenyl ether			50.0	50.4		ug/L		101	53 - 127	1	16
4-Chloro-3-methylphenol			50.0	48.8		ug/L		98	22 - 147	1	16
4-Chlorophenyl phenyl ether			50.0	50.9		ug/L		102	25 - 158	9	15
4-Nitrophenol			100	59.8		ug/L		60	1 - 132	12	24
Acenaphthene			50.0	48.2		ug/L		96	47 - 145	3	25
Acenaphthylene			50.0	47.8		ug/L		96	33 - 145	2	22
Anthracene			50.0	53.3		ug/L		107	27 - 133	3	15
Benzidine			100	ND	*1	ug/L		1	1 - 120	109	50
Benzo[a]anthracene			50.0	53.3		ug/L		107	33 - 143	4	15
Benzo[a]pyrene			50.0	52.8		ug/L		106	17 - 163	3	15
Benzo[b]fluoranthene			50.0	52.7		ug/L		105	24 - 159	4	17
Benzo[g,h,i]perylene			50.0	54.0		ug/L		108	1 - 219	3	19
Benzo[k]fluoranthene			50.0	53.0		ug/L		106	11 - 162	6	19
Bis(2-chloroethoxy)methane			50.0	44.5		ug/L		89	33 - 184	2	23
Bis(2-chloroethyl)ether			50.0	44.7		ug/L		89	12 - 158	2	33
Bis(2-ethylhexyl) phthalate			50.0	53.1		ug/L		106	8 - 158	3	15
Butyl benzyl phthalate			50.0	53.8		ug/L		108	1 - 152	7	15
Chrysene			50.0	53.5		ug/L		107	17 - 168	3	15
Di-n-butyl phthalate			50.0	55.8		ug/L		112	1 - 120	5	15
Di-n-octyl phthalate			50.0	54.7		ug/L		109	4 - 146	6	15
Dibenz(a,h)anthracene			50.0	54.1		ug/L		108	1 - 227	1	18
Diethyl phthalate			50.0	53.2		ug/L		106	1 - 120	5	15
Dimethyl phthalate			50.0	52.6		ug/L		105	1 - 120	1	15
Fluoranthene			50.0	54.8		ug/L		110	26 - 137	4	15
Fluorene			50.0	51.2		ug/L		102	59 - 121	1	18
Hexachlorobenzene			50.0	49.7		ug/L		99	1 - 152	2	15
Hexachlorocyclopentadiene			50.0	34.0		ug/L		68	5 - 120	5	50
Hexachloroethane			50.0	34.7		ug/L		69	40 - 120	4	43
Indeno[1,2,3-cd]pyrene			50.0	53.1		ug/L		106	1 - 171	0	17
Isophorone			50.0	47.4		ug/L		95	21 - 196	0	21
N-Nitrosodi-n-propylamine			50.0	44.5		ug/L		89	1 - 230	10	23
N-Nitrosodiphenylamine			50.0	52.3		ug/L		105	54 - 125	6	15
Naphthalene			50.0	44.7		ug/L		89	21 - 133	1	31
Nitrobenzene			50.0	44.0		ug/L		88	35 - 180	1	27
Pentachlorophenol			100	90.4		ug/L		90	14 - 176	3	21
Phenanthrene			50.0	54.1		ug/L		108	54 - 120	5	16
Phenol			50.0	21.0		ug/L		42	5 - 120	3	36
Pyrene			50.0	54.1		ug/L		108	52 - 120	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*104*		*52 - 151*
2-Fluorobiphenyl	*97*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*
Nitrobenzene-d5	*87*		*15 - 314*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-583856/3-A
Matrix: Water
Analysis Batch: 583980

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 583856

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl-d14	*106*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-585368/1-A
Matrix: Water
Analysis Batch: 585742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		06/15/21 11:59	06/16/21 14:01	1

Lab Sample ID: LCS 480-585368/2-A
Matrix: Water
Analysis Batch: 585742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.201		mg/L		101	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-585465/1-A
Matrix: Water
Analysis Batch: 585553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/15/21 13:54	06/15/21 16:45	1

Lab Sample ID: LCS 480-585465/2-A
Matrix: Water
Analysis Batch: 585553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00702		mg/L		105	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-584288/1-A
Matrix: Water
Analysis Batch: 584327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00845	J	0.010	0.0050	mg/L		06/07/21 14:21	06/07/21 17:24	1

Lab Sample ID: LCS 480-584288/2-A
Matrix: Water
Analysis Batch: 584327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.264		mg/L		106	90 - 110

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-185428-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-584429/1
Matrix: Water
Analysis Batch: 584429

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 782070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-5	Trip Blank	Total/NA	Water	624.1	
480-185428-6	COMPOSITE	Total/NA	Water	624.1	
MB 460-782070/10	Method Blank	Total/NA	Water	624.1	
LCS 460-782070/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-782070/7	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 583856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	625	
MB 480-583856/1-A	Method Blank	Total/NA	Water	625	
LCS 480-583856/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-583856/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 583980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	625.1	583856
MB 480-583856/1-A	Method Blank	Total/NA	Water	625.1	583856
LCS 480-583856/2-A	Lab Control Sample	Total/NA	Water	625.1	583856
LCSD 480-583856/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	583856

Metals

Prep Batch: 585368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	200.7	
MB 480-585368/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-585368/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 585465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	245.1	
MB 480-585465/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-585465/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 585553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	245.1	585465
MB 480-585465/1-A	Method Blank	Total/NA	Water	245.1	585465
LCS 480-585465/2-A	Lab Control Sample	Total/NA	Water	245.1	585465

Analysis Batch: 585742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	200.7 Rev 4.4	585368
MB 480-585368/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	585368
LCS 480-585368/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	585368

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Prep Batch: 584288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	Distill/CN	
MB 480-584288/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-584288/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 584327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	335.4	584288
MB 480-584288/1-A	Method Blank	Total/NA	Water	335.4	584288
LCS 480-584288/2-A	Lab Control Sample	Total/NA	Water	335.4	584288

Analysis Batch: 584429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185428-6	COMPOSITE	Total/NA	Water	SM 4500 H+ B	
LCS 480-584429/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Trip Blank
Lab Sample ID: 480-185428-5
Date Collected: 06/01/21 00:00
Matrix: Water
Date Received: 06/01/21 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	782070	06/03/21 22:39	AMS	TAL EDI

Client Sample ID: COMPOSITE
Lab Sample ID: 480-185428-6
Date Collected: 06/01/21 15:30
Matrix: Water
Date Received: 06/01/21 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	782070	06/04/21 00:32	AMS	TAL EDI
Total/NA	Prep	625			583856	06/03/21 15:41	CMC	TAL BUF
Total/NA	Analysis	625.1		1	583980	06/04/21 20:55	JMM	TAL BUF
Total/NA	Prep	200.7			585368	06/15/21 11:59	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	585742	06/16/21 15:05	LMH	TAL BUF
Total/NA	Prep	245.1			585465	06/15/21 13:54	BMB	TAL BUF
Total/NA	Analysis	245.1		1	585553	06/15/21 16:47	BMB	TAL BUF
Total/NA	Prep	Distill/CN			584288	06/07/21 14:21	JPS	TAL BUF
Total/NA	Analysis	335.4		1	584327	06/07/21 17:54	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	584429	06/08/21 10:30	JPS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
New York	NELAP	11452	04-01-22
Pennsylvania	NELAP	68-00522	02-28-22
Rhode Island	State	LAO00132	12-30-21
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-185428-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-185428-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185428-5	Trip Blank	Water	06/01/21 00:00	06/01/21 15:42	
480-185428-6	COMPOSITE	Water	06/01/21 15:30	06/01/21 15:42	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153388-34075.1
Client Contact: Jason Gutkowski	Phone: 315436-3605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082166			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

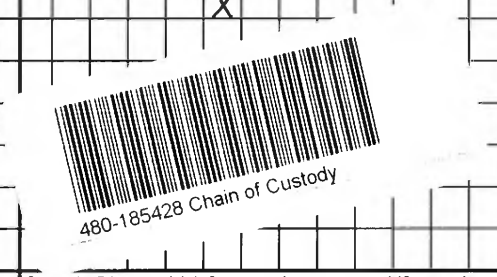
Analysis Requested

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	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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	6/1/21	0930	G	Water			X	X	X	X	X		Lab To
001-2		1130					X	X	X	X	X		Composite
001-3		1330					X	X	X	X	X		Samples
001-4		1530					X	X	X	X	X		
Trip Blank	—	—	—								X		
													Short Hold



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Jason Gutkowski	6/1/21 / 1542	Arcadis		6/1/21 1542	LTA BUFFALO
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.:	Cooler Temperature(s) °C and Other Remarks: 3.3 #1

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-64191.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-185428-1
Address: 777 New Durham Road, ,	Due Date Requested: 6/14/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Iroquois Gas/Westwood Pharm.	Project #: 48011056			
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)	624.1_PREC/624_Prep_3D (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Trip Blank (480-185428-5)	6/1/21	Eastern		Water			X	1	

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
1	Christopher Cirolo	6/2/21 1700	TA	Accepted via Fedex	6/3/21 940	TAF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 151301	Cooler Temperature(s) °C and Other Remarks: 4.0°C/3.5°C

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-64192.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-185428-1
Address: 777 New Durham Road, ,	Due Date Requested: 6/14/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Iroquois Gas/Westwood Pharm.	Project #: 48011056			
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)	624.1_PREC/624_Prep_3D (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
COMPOSITE (480-185428-6)	6/2/21	Eastern		Water			X	1	LAB COMPOSITE ALL VOAS SAMPLES 1-4

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
1	Chris McKow Circolo	6/2/21 1700	TA	Callier via FedEx	6/3/21 940	TAE
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 513101	Cooler Temperature(s) °C and Other Remarks: 4.0C/3.5C

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-185428-1

Login Number: 185428
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	LAB COMPOSITE SAMPLES
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-185428-1

Login Number: 185428
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 06/03/21 12:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1513101
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	3.5°C
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.	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.	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	

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: September 30, 2021
Our Ref: 30082116
Subject: **Discharge Monitoring Report – Third Quarter 2021**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 18-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this third quarter 2021 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period July 1 through September 30, 2021. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 92,331 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 6/28/2021 to 9/27/2021). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the third quarter 2021.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the July, August, and September monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

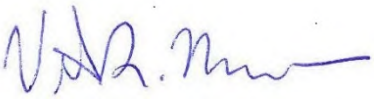
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In August 2021, there was a detection of phenol at a concentration of 0.011 mg/L. In July and September 2021, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
September 30, 2021

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

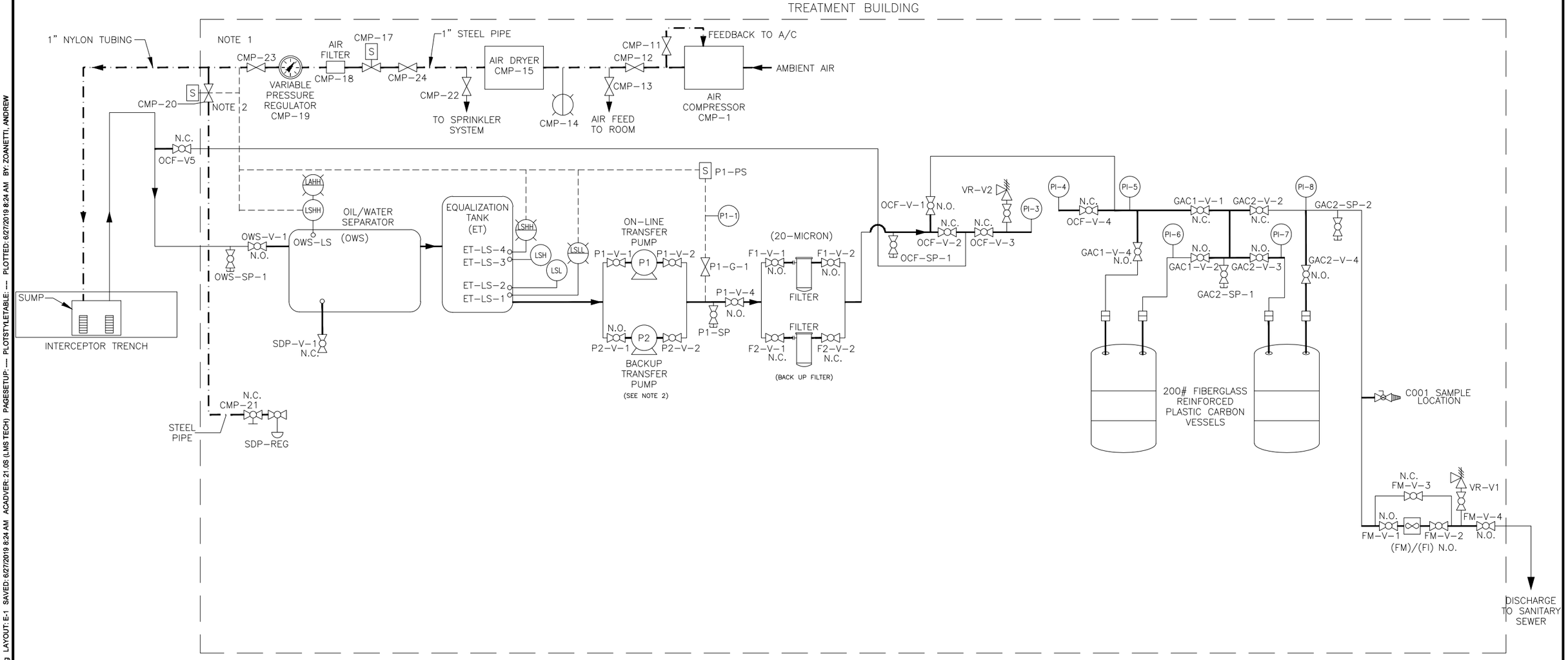
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

A Process Flow Diagram
B Sample Collection and Log Sheets for Monthly Sampling Events
C Quarterly Analytical Data Table
D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	7/6/21	→	→	→	JTG
Sample Time	0710	0910	1110	1310	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	74°F Sunny	75°F Sunny	75°F Filtered Sun	76°F Filtered Sun	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 7/6/21

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40ml. clear vials every two hours.

Sample Date	8/2/21	→	→	→	JT6
Sample Time	0755	0955	1155	1355	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	61°F Sunny	65°F Sunny	71°F Sunny	73°F Sunny	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski
Sample Technician

8/2/21
Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	9/1/21	→	→	→	JT6
Sample Time	0705	0905	1105	1305	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	64°F Cloudy	67°F Cloudy	69°F cloudy	72°F cloudy	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski — Sample Technician

9/1/21 — Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	6/28/2021	7/6/2021	7/12/2021	7/20/2021	7/30/2021	8/2/2021	8/9/2021
Totalizer	gal	NA	515,505	523,067	528,730	534,903	541,970	544,073	547,611
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	1.63E-04 B	NS
Total Cyanide	lbs	7.93**	NS	6.14E-04	NS	NS	NS	9.34E-04	NS
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	0.011	NS
pH	SU	5.0-12.0	NS	7.7 HF	NS	NS	NS	7.7 HF	NS
Total Daily Flow	gal	14,400	-	945	944	772	707	701	505

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	8/16/2021	8/24/2021	9/1/2021	9/7/2021	9/13/2021	9/20/2020	9/27/2021
Totalizer	gal	NA	555,287	565,266	574,690	582,047	589,590	598,813	607,836
Total Mercury	lbs	0.00001**	NS	NS	ND	NS	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	ND	NS	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	1.47E-03	NS	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	1.71E-03 J	NS	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	ND	NS	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	7.1 HF	NS	NS	NS	NS
Total Daily Flow	gal	14,400	1,097	1,247	1,178	1,226	1,257	1,318	1,289

Notes:

B - Compound was found in the blank and the sample.
F1 - MS and/or MSD Recovery is outside acceptance limits.
HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NS - Not Sampled
ND - Not Detected at the reporting limit
gal - Gallons
NA - Not Applicable
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.
*** - The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.
Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-186856-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
7/20/2021 12:56:28 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds 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)
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

Job ID: 480-186856-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-186856-1

Comments
No additional comments.

Receipt
The samples were received on 7/6/2021 1:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 624.1: The laboratory control sample (LCS) for analytical batch 460-789406 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane and 1,1-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 625.1: The laboratory control sample (LCS) for preparation batch 480-588778 and analytical batch 480-589056 recovered outside control limits for the following analytes: Benzidine.

Method 625.1: The laboratory control sample (LCS) for preparation batch 480-588356 and analytical batch 480-588525 recovered outside control limits for the following analytes: Benzidine. The associated sample(s) was re-prepared and/or re-analyzed outside holding time with similar results. No further volume remains for re-extraction. Both sets of data have been reported.

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

Metals
Method 200.7: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: COMPOSITE 001 1-4 (480-186856-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. Preserved 7/12/21 at 1359. Second check 7/14/21 at 0800.

Method 245.1: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: COMPOSITE 001 1-4 (480-186856-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. preserved 7/12/21 at 1359

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

General Chemistry
Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe.

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

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-588356.

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-186856-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.4		1.0	0.32	ug/L	1		624.1	Total/NA

Client Sample ID: COMPOSITE 001 1-4 — Lab Sample ID: 480-186856-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.078		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.9	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-186856-5

Date Collected: 07/06/21 00:00

Matrix: Water

Date Received: 07/06/21 13:26

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/21 21:39	1
1,1,2,2-Tetrachloroethane	ND	*+	1.0	0.37	ug/L			07/09/21 21:39	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/09/21 21:39	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			07/09/21 21:39	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/21 21:39	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/09/21 21:39	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/09/21 21:39	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/09/21 21:39	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/21 21:39	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/09/21 21:39	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/09/21 21:39	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/09/21 21:39	1
Acrolein	ND		4.0	1.1	ug/L			07/09/21 21:39	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/09/21 21:39	1
Benzene	ND		1.0	0.43	ug/L			07/09/21 21:39	1
Bromoform	ND		1.0	0.54	ug/L			07/09/21 21:39	1
Bromomethane	ND		1.0	0.45	ug/L			07/09/21 21:39	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/21 21:39	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/21 21:39	1
Dibromochloromethane	ND		1.0	0.13	ug/L			07/09/21 21:39	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/21 21:39	1
Chloroform	ND		1.0	0.33	ug/L			07/09/21 21:39	1
Chloromethane	ND		1.0	0.43	ug/L			07/09/21 21:39	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/21 21:39	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/21 21:39	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/21 21:39	1
Methylene Chloride	**1.4**		1.0	0.32	ug/L			07/09/21 21:39	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/21 21:39	1
Toluene	ND		1.0	0.38	ug/L			07/09/21 21:39	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/09/21 21:39	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/21 21:39	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/21 21:39	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/09/21 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*		*07/09/21 21:39*	*1*
4-Bromofluorobenzene	*94*		*60 - 140*		*07/09/21 21:39*	*1*
Toluene-d8 (Surr)	*107*		*60 - 140*		*07/09/21 21:39*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*07/09/21 21:39*	*1*

Client Sample ID: COMPOSITE 001 1-4

Lab Sample ID: 480-186856-6

Date Collected: 07/06/21 13:10

Matrix: Water

Date Received: 07/06/21 13:26

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/21 22:02	1
1,1,2,2-Tetrachloroethane	ND	*+	1.0	0.37	ug/L			07/09/21 22:02	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/09/21 22:02	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			07/09/21 22:02	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-186856-1

Client Sample ID: COMPOSITE 001 1-4
Date Collected: 07/06/21 13:10
Date Received: 07/06/21 13:26

Lab Sample ID: 480-186856-6
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/21 22:02	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/09/21 22:02	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/09/21 22:02	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/09/21 22:02	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/21 22:02	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/09/21 22:02	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/09/21 22:02	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/09/21 22:02	1
Acrolein	ND		4.0	1.1	ug/L			07/09/21 22:02	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/09/21 22:02	1
Benzene	ND		1.0	0.43	ug/L			07/09/21 22:02	1
Bromoform	ND		1.0	0.54	ug/L			07/09/21 22:02	1
Bromomethane	ND		1.0	0.45	ug/L			07/09/21 22:02	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/21 22:02	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/21 22:02	1
Dibromochloromethane	ND		1.0	0.13	ug/L			07/09/21 22:02	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/21 22:02	1
Chloroform	ND		1.0	0.33	ug/L			07/09/21 22:02	1
Chloromethane	ND		1.0	0.43	ug/L			07/09/21 22:02	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/21 22:02	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/21 22:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/21 22:02	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/21 22:02	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/21 22:02	1
Toluene	ND		1.0	0.38	ug/L			07/09/21 22:02	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/09/21 22:02	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/21 22:02	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/21 22:02	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/09/21 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 140*		*07/09/21 22:02*	*1*
4-Bromofluorobenzene	*92*		*60 - 140*		*07/09/21 22:02*	*1*
Toluene-d8 (Surr)	*107*		*60 - 140*		*07/09/21 22:02*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*07/09/21 22:02*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		07/08/21 06:58	07/09/21 13:25	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		07/08/21 06:58	07/09/21 13:25	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		07/08/21 06:58	07/09/21 13:25	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		07/08/21 06:58	07/09/21 13:25	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		07/08/21 06:58	07/09/21 13:25	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1

Client Sample ID: COMPOSITE 001 1-4

Date Collected: 07/06/21 13:10
Date Received: 07/06/21 13:26

Lab Sample ID: 480-186856-6

Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		4.8	0.22	ug/L		07/08/21 06:58	07/09/21 13:25	1
2-Chlorophenol	ND		4.8	0.16	ug/L		07/08/21 06:58	07/09/21 13:25	1
2-Nitrophenol	ND		4.8	0.17	ug/L		07/08/21 06:58	07/09/21 13:25	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		07/08/21 06:58	07/09/21 13:25	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		07/08/21 06:58	07/09/21 13:25	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		07/08/21 06:58	07/09/21 13:25	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		07/08/21 06:58	07/09/21 13:25	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		07/08/21 06:58	07/09/21 13:25	1
4-Nitrophenol	ND		14	0.46	ug/L		07/08/21 06:58	07/09/21 13:25	1
Acenaphthene	ND		4.8	0.19	ug/L		07/08/21 06:58	07/09/21 13:25	1
Acenaphthylene	ND		4.8	0.21	ug/L		07/08/21 06:58	07/09/21 13:25	1
Anthracene	ND		4.8	0.33	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzidine	ND	*-	76	13	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		07/08/21 06:58	07/09/21 13:25	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		07/08/21 06:58	07/09/21 13:25	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		07/08/21 06:58	07/09/21 13:25	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		07/08/21 06:58	07/09/21 13:25	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		07/08/21 06:58	07/09/21 13:25	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		07/08/21 06:58	07/09/21 13:25	1
Chrysene	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
Decane	ND		9.5	0.38	ug/L		07/08/21 06:58	07/09/21 13:25	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		07/08/21 06:58	07/09/21 13:25	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		07/08/21 06:58	07/09/21 13:25	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		07/08/21 06:58	07/09/21 13:25	1
Diethyl phthalate	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		07/08/21 06:58	07/09/21 13:25	1
Fluoranthene	ND		4.8	0.38	ug/L		07/08/21 06:58	07/09/21 13:25	1
Fluorene	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		07/08/21 06:58	07/09/21 13:25	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		07/08/21 06:58	07/09/21 13:25	1
Hexachloroethane	ND		4.8	0.14	ug/L		07/08/21 06:58	07/09/21 13:25	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		07/08/21 06:58	07/09/21 13:25	1
Isophorone	ND		4.8	0.18	ug/L		07/08/21 06:58	07/09/21 13:25	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		07/08/21 06:58	07/09/21 13:25	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		07/08/21 06:58	07/09/21 13:25	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		07/08/21 06:58	07/09/21 13:25	1
Naphthalene	ND		4.8	0.20	ug/L		07/08/21 06:58	07/09/21 13:25	1
Nitrobenzene	ND		4.8	0.19	ug/L		07/08/21 06:58	07/09/21 13:25	1
Pentachlorophenol	ND		9.5	0.75	ug/L		07/08/21 06:58	07/09/21 13:25	1
Phenanthrene	ND		4.8	0.29	ug/L		07/08/21 06:58	07/09/21 13:25	1
Phenol	ND		4.8	0.083	ug/L		07/08/21 06:58	07/09/21 13:25	1
Pyrene	ND		4.8	0.33	ug/L		07/08/21 06:58	07/09/21 13:25	1
n-Octadecane	ND		9.5	0.29	ug/L		07/08/21 06:58	07/09/21 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*52 - 151*	*07/08/21 06:58*	*07/09/21 13:25*	*1*

Client Sample ID: COMPOSITE 001 1-4

Date Collected: 07/06/21 13:10
Date Received: 07/06/21 13:26

Lab Sample ID: 480-186856-6

Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*44 - 120*	*07/08/21 06:58*	*07/09/21 13:25*	*1*
2-Fluorophenol	*48*		*17 - 120*	*07/08/21 06:58*	*07/09/21 13:25*	*1*
Nitrobenzene-d5	*79*		*15 - 314*	*07/08/21 06:58*	*07/09/21 13:25*	*1*
p-Terphenyl-d14	*80*		*22 - 125*	*07/08/21 06:58*	*07/09/21 13:25*	*1*
Phenol-d5	*32*		*8 - 424*	*07/08/21 06:58*	*07/09/21 13:25*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		07/12/21 16:09	07/14/21 20:20	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		07/12/21 16:09	07/14/21 20:20	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		07/12/21 16:09	07/14/21 20:20	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		07/12/21 16:09	07/14/21 20:20	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		07/12/21 16:09	07/14/21 20:20	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 20:20	1
2-Chlorophenol	ND		5.0	0.17	ug/L		07/12/21 16:09	07/14/21 20:20	1
2-Nitrophenol	ND		5.0	0.18	ug/L		07/12/21 16:09	07/14/21 20:20	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 20:20	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		07/12/21 16:09	07/14/21 20:20	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 20:20	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 20:20	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 20:20	1
4-Nitrophenol	ND		15	0.49	ug/L		07/12/21 16:09	07/14/21 20:20	1
Acenaphthene	ND		5.0	0.20	ug/L		07/12/21 16:09	07/14/21 20:20	1
Acenaphthylene	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 20:20	1
Anthracene	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzidine	ND	*- *1	80	14	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 20:20	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 20:20	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 20:20	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 20:20	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		07/12/21 16:09	07/14/21 20:20	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 20:20	1
Chrysene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
Decane	ND		10	0.40	ug/L		07/12/21 16:09	07/14/21 20:20	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 20:20	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 20:20	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 20:20	1
Diethyl phthalate	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 20:20	1

Client Sample ID: COMPOSITE 001 1-4
Date Collected: 07/06/21 13:10
Date Received: 07/06/21 13:26

Lab Sample ID: 480-186856-6
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 20:20	1
Fluorene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 20:20	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		07/12/21 16:09	07/14/21 20:20	1
Hexachloroethane	ND		5.0	0.15	ug/L		07/12/21 16:09	07/14/21 20:20	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 20:20	1
Isophorone	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 20:20	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 20:20	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		07/12/21 16:09	07/14/21 20:20	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		07/12/21 16:09	07/14/21 20:20	1
Naphthalene	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 20:20	1
Nitrobenzene	ND		5.0	0.20	ug/L		07/12/21 16:09	07/14/21 20:20	1
Pentachlorophenol	ND		10	0.79	ug/L		07/12/21 16:09	07/14/21 20:20	1
Phenanthrene	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 20:20	1
Phenol	ND		5.0	0.088	ug/L		07/12/21 16:09	07/14/21 20:20	1
Pyrene	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 20:20	1
n-Octadecane	ND		10	0.30	ug/L		07/12/21 16:09	07/14/21 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*107*		*52 - 151*	*07/12/21 16:09*	*07/14/21 20:20*	*1*
2-Fluorobiphenyl	*84*		*44 - 120*	*07/12/21 16:09*	*07/14/21 20:20*	*1*
2-Fluorophenol	*43*		*17 - 120*	*07/12/21 16:09*	*07/14/21 20:20*	*1*
Nitrobenzene-d5	*80*		*15 - 314*	*07/12/21 16:09*	*07/14/21 20:20*	*1*
p-Terphenyl-d14	*85*		*22 - 125*	*07/12/21 16:09*	*07/14/21 20:20*	*1*
Phenol-d5	*30*		*8 - 424*	*07/12/21 16:09*	*07/14/21 20:20*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		07/19/21 08:57	07/20/21 02:34	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		07/15/21 13:20	07/15/21 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.078**		0.010	0.0050	mg/L		07/08/21 10:40	07/08/21 16:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.1	0.1	SU			07/09/21 12:48	1
Temperature	**19.9**	**HF**	0.001	0.001	Degrees C			07/09/21 12:48	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-186856-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
480-186856-5	TRIP BLANK	119	94	107	100
480-186856-6	COMPOSITE 001 1-4	120	92	107	102
LCS 460-789406/4	Lab Control Sample	116	89	107	103
LCSD 460-789406/8	Lab Control Sample Dup	118	90	109	100
MB 460-789406/11	Method Blank	117	93	111	100

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-186856-6	COMPOSITE 001 1-4	100	83	48	79	80	32
480-186856-6 - RE	COMPOSITE 001 1-4	107	84	43	80	85	30
LCS 480-588356/2-A	Lab Control Sample	119	92	59	89	112	42
LCS 480-588778/2-A	Lab Control Sample	109	88	47	86	104	33
LCSD 480-588356/3-A	Lab Control Sample Dup	116	95	56	87	107	39
LCSD 480-588778/3-A	Lab Control Sample Dup	108	90	48	88	105	34
MB 480-588356/1-A	Method Blank	91	92	55	90	108	36
MB 480-588778/1-A	Method Blank	94	91	49	91	107	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-186856-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-789406/11
Matrix: Water
Analysis Batch: 789406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/21 21:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/21 21:16	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/09/21 21:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/21 21:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/21 21:16	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/09/21 21:16	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/09/21 21:16	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/09/21 21:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/21 21:16	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/09/21 21:16	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/09/21 21:16	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/09/21 21:16	1
Acrolein	ND		4.0	1.1	ug/L			07/09/21 21:16	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/09/21 21:16	1
Benzene	ND		1.0	0.43	ug/L			07/09/21 21:16	1
Bromoform	ND		1.0	0.54	ug/L			07/09/21 21:16	1
Bromomethane	ND		1.0	0.45	ug/L			07/09/21 21:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/21 21:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/21 21:16	1
Dibromochloromethane	ND		1.0	0.13	ug/L			07/09/21 21:16	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/21 21:16	1
Chloroform	ND		1.0	0.33	ug/L			07/09/21 21:16	1
Chloromethane	ND		1.0	0.43	ug/L			07/09/21 21:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/21 21:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/21 21:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/21 21:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/21 21:16	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/21 21:16	1
Toluene	ND		1.0	0.38	ug/L			07/09/21 21:16	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/09/21 21:16	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/21 21:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/21 21:16	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/09/21 21:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*07/09/21 21:16*	*1*
4-Bromofluorobenzene	*93*		*60 - 140*		*07/09/21 21:16*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*07/09/21 21:16*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*07/09/21 21:16*	*1*

Lab Sample ID: LCS 460-789406/4
Matrix: Water
Analysis Batch: 789406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.3		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	20.0	28.1	*+	ug/L		141	60 - 140
1,1,2-Trichloroethane	20.0	22.9		ug/L		115	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-789406/4
Matrix: Water
Analysis Batch: 789406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	26.3	*+	ug/L		132	70 - 130
1,1-Dichloroethene	20.0	22.8		ug/L		114	50 - 150
1,2-Dichlorobenzene	20.0	20.9		ug/L		104	65 - 135
1,2-Dichloroethane	20.0	24.9		ug/L		125	70 - 130
1,2-Dichloroethene, Total	40.0	45.6		ug/L		114	60 - 140
1,2-Dichloropropane	20.0	23.4		ug/L		117	35 - 165
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	21.4		ug/L		107	65 - 135
2-Chloroethyl vinyl ether	20.0	21.5		ug/L		107	0.1 - 225
Acrolein	40.6	46.1		ug/L		114	10 - 150
Acrylonitrile	200	281		ug/L		140	60 - 140
Benzene	20.0	24.7		ug/L		124	65 - 135
Bromoform	20.0	16.7		ug/L		84	70 - 130
Bromomethane	20.0	20.1		ug/L		101	15 - 185
Carbon tetrachloride	20.0	20.5		ug/L		102	70 - 130
Chlorobenzene	20.0	21.0		ug/L		105	65 - 135
Dibromochloromethane	20.0	17.4		ug/L		87	70 - 135
Chloroethane	20.0	29.4		ug/L		147	40 - 160
Chloroform	20.0	22.8		ug/L		114	70 - 135
Chloromethane	20.0	28.5		ug/L		143	0.1 - 205
cis-1,3-Dichloropropene	20.0	22.4		ug/L		112	25 - 175
Bromodichloromethane	20.0	19.7		ug/L		99	65 - 135
Ethylbenzene	20.0	21.1		ug/L		106	60 - 140
Methylene Chloride	20.0	24.5		ug/L		123	60 - 140
Tetrachloroethene	20.0	17.0		ug/L		85	70 - 130
Toluene	20.0	22.1		ug/L		110	70 - 130
trans-1,3-Dichloropropene	20.0	22.8		ug/L		114	50 - 150
Trichloroethene	20.0	19.9		ug/L		100	65 - 135
Trichlorofluoromethane	20.0	17.5		ug/L		88	50 - 150
Vinyl chloride	20.0	26.0		ug/L		130	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*
4-Bromofluorobenzene	*89*		*60 - 140*
Toluene-d8 (Surr)	*107*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

Lab Sample ID: LCSD 460-789406/8
Matrix: Water
Analysis Batch: 789406

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
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	70 - 130	15	36
1,1,2,2-Tetrachloroethane	20.0	25.9		ug/L		129	60 - 140	8	61
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	70 - 130	10	45
1,1-Dichloroethane	20.0	24.5		ug/L		122	70 - 130	7	40
1,1-Dichloroethene	20.0	19.9		ug/L		100	50 - 150	14	32
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	65 - 135	10	57

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-789406/8
Matrix: Water
Analysis Batch: 789406

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
1,2-Dichloroethane			20.0	23.5		ug/L		118	70 - 130	6	49
1,2-Dichloroethene, Total			40.0	41.6		ug/L		104	60 - 140	9	50
1,2-Dichloropropane			20.0	21.3		ug/L		107	35 - 165	10	55
1,3-Dichlorobenzene			20.0	18.0		ug/L		90	70 - 130	15	43
1,4-Dichlorobenzene			20.0	18.4		ug/L		92	65 - 135	15	57
2-Chloroethyl vinyl ether			20.0	20.0		ug/L		100	0.1 - 225	7	71
Acrolein			40.6	51.6		ug/L		127	10 - 150	11	60
Acrylonitrile			200	273		ug/L		137	60 - 140	3	60
Benzene			20.0	21.6		ug/L		108	65 - 135	13	61
Bromoform			20.0	15.0		ug/L		75	70 - 130	11	42
Bromomethane			20.0	18.2		ug/L		91	15 - 185	10	61
Carbon tetrachloride			20.0	17.1		ug/L		85	70 - 130	18	41
Chlorobenzene			20.0	18.8		ug/L		94	65 - 135	11	53
Dibromochloromethane			20.0	17.0		ug/L		85	70 - 135	3	50
Chloroethane			20.0	24.6		ug/L		123	40 - 160	18	78
Chloroform			20.0	20.8		ug/L		104	70 - 135	9	54
Chloromethane			20.0	25.0		ug/L		125	0.1 - 205	13	60
cis-1,3-Dichloropropene			20.0	20.8		ug/L		104	25 - 175	7	58
Bromodichloromethane			20.0	18.6		ug/L		93	65 - 135	6	56
Ethylbenzene			20.0	18.0		ug/L		90	60 - 140	16	63
Methylene Chloride			20.0	23.4		ug/L		117	60 - 140	5	28
Tetrachloroethene			20.0	14.6		ug/L		73	70 - 130	15	39
Toluene			20.0	19.4		ug/L		97	70 - 130	13	41
trans-1,3-Dichloropropene			20.0	21.6		ug/L		108	50 - 150	5	86
Trichloroethene			20.0	16.9		ug/L		84	65 - 135	17	48
Trichlorofluoromethane			20.0	14.9		ug/L		74	50 - 150	16	84
Vinyl chloride			20.0	21.9		ug/L		109	5 - 195	17	66

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*
4-Bromofluorobenzene	*90*		*60 - 140*
Toluene-d8 (Surr)	*109*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-588356/1-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		07/08/21 06:58	07/09/21 11:23	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		07/08/21 06:58	07/09/21 11:23	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		07/08/21 06:58	07/09/21 11:23	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		07/08/21 06:58	07/09/21 11:23	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		07/08/21 06:58	07/09/21 11:23	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-588356/1-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		07/08/21 06:58	07/09/21 11:23	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		07/08/21 06:58	07/09/21 11:23	1
2-Chlorophenol	ND		5.0	0.17	ug/L		07/08/21 06:58	07/09/21 11:23	1
2-Nitrophenol	ND		5.0	0.18	ug/L		07/08/21 06:58	07/09/21 11:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/08/21 06:58	07/09/21 11:23	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		07/08/21 06:58	07/09/21 11:23	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		07/08/21 06:58	07/09/21 11:23	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		07/08/21 06:58	07/09/21 11:23	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		07/08/21 06:58	07/09/21 11:23	1
4-Nitrophenol	ND		15	0.49	ug/L		07/08/21 06:58	07/09/21 11:23	1
Acenaphthene	ND		5.0	0.20	ug/L		07/08/21 06:58	07/09/21 11:23	1
Acenaphthylene	ND		5.0	0.22	ug/L		07/08/21 06:58	07/09/21 11:23	1
Anthracene	ND		5.0	0.35	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzidine	ND		80	14	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		07/08/21 06:58	07/09/21 11:23	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		07/08/21 06:58	07/09/21 11:23	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		07/08/21 06:58	07/09/21 11:23	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		07/08/21 06:58	07/09/21 11:23	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		07/08/21 06:58	07/09/21 11:23	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		07/08/21 06:58	07/09/21 11:23	1
Chrysene	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
Decane	ND		10	0.40	ug/L		07/08/21 06:58	07/09/21 11:23	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		07/08/21 06:58	07/09/21 11:23	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		07/08/21 06:58	07/09/21 11:23	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		07/08/21 06:58	07/09/21 11:23	1
Diethyl phthalate	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		07/08/21 06:58	07/09/21 11:23	1
Fluoranthene	ND		5.0	0.40	ug/L		07/08/21 06:58	07/09/21 11:23	1
Fluorene	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		07/08/21 06:58	07/09/21 11:23	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		07/08/21 06:58	07/09/21 11:23	1
Hexachloroethane	ND		5.0	0.15	ug/L		07/08/21 06:58	07/09/21 11:23	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		07/08/21 06:58	07/09/21 11:23	1
Isophorone	ND		5.0	0.19	ug/L		07/08/21 06:58	07/09/21 11:23	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		07/08/21 06:58	07/09/21 11:23	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		07/08/21 06:58	07/09/21 11:23	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		07/08/21 06:58	07/09/21 11:23	1
Naphthalene	ND		5.0	0.22	ug/L		07/08/21 06:58	07/09/21 11:23	1
Nitrobenzene	ND		5.0	0.20	ug/L		07/08/21 06:58	07/09/21 11:23	1
Pentachlorophenol	ND		10	0.79	ug/L		07/08/21 06:58	07/09/21 11:23	1
Phenanthrene	ND		5.0	0.30	ug/L		07/08/21 06:58	07/09/21 11:23	1
Phenol	ND		5.0	0.088	ug/L		07/08/21 06:58	07/09/21 11:23	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-588356/1-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0	0.35	ug/L		07/08/21 06:58	07/09/21 11:23	1
n-Octadecane	ND		10	0.30	ug/L		07/08/21 06:58	07/09/21 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*52 - 151*	*07/08/21 06:58*	*07/09/21 11:23*	*1*
2-Fluorobiphenyl	*92*		*44 - 120*	*07/08/21 06:58*	*07/09/21 11:23*	*1*
2-Fluorophenol	*55*		*17 - 120*	*07/08/21 06:58*	*07/09/21 11:23*	*1*
Nitrobenzene-d5	*90*		*15 - 314*	*07/08/21 06:58*	*07/09/21 11:23*	*1*
p-Terphenyl-d14	*108*		*22 - 125*	*07/08/21 06:58*	*07/09/21 11:23*	*1*
Phenol-d5	*36*		*8 - 424*	*07/08/21 06:58*	*07/09/21 11:23*	*1*

Lab Sample ID: LCS 480-588356/2-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	40.5		ug/L		81	44 - 142
1,2-Dichlorobenzene	50.0	37.1		ug/L		74	32 - 129
1,3-Dichlorobenzene	50.0	35.2		ug/L		70	1 - 172
1,4-Dichlorobenzene	50.0	36.2		ug/L		72	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	36.0		ug/L		72	36 - 166
2,4,6-Trichlorophenol	50.0	51.5		ug/L		103	37 - 144
2,4-Dichlorophenol	50.0	51.3		ug/L		103	39 - 135
2,4-Dimethylphenol	50.0	46.0		ug/L		92	32 - 120
2,4-Dinitrophenol	100	121		ug/L		121	1 - 191
2,4-Dinitrotoluene	50.0	52.4		ug/L		105	39 - 139
2,6-Dinitrotoluene	50.0	52.6		ug/L		105	50 - 158
2-Chloronaphthalene	50.0	44.5		ug/L		89	60 - 120
2-Chlorophenol	50.0	44.6		ug/L		89	23 - 134
2-Nitrophenol	50.0	51.2		ug/L		102	29 - 182
3,3'-Dichlorobenzidine	100	106		ug/L		106	1 - 262
4,6-Dinitro-2-methylphenol	100	135		ug/L		135	1 - 181
4-Bromophenyl phenyl ether	50.0	53.9		ug/L		108	53 - 127
4-Chloro-3-methylphenol	50.0	51.6		ug/L		103	22 - 147
4-Chlorophenyl phenyl ether	50.0	50.9		ug/L		102	25 - 158
4-Nitrophenol	100	51.8		ug/L		52	1 - 132
Acenaphthene	50.0	46.0		ug/L		92	47 - 145
Acenaphthylene	50.0	48.2		ug/L		96	33 - 145
Anthracene	50.0	53.5		ug/L		107	27 - 133
Benzidine	100	ND	*-	ug/L		0	1 - 120
Benzo[a]anthracene	50.0	56.2		ug/L		112	33 - 143
Benzo[a]pyrene	50.0	51.4		ug/L		103	17 - 163
Benzo[b]fluoranthene	50.0	53.3		ug/L		107	24 - 159
Benzo[g,h,i]perylene	50.0	51.9		ug/L		104	1 - 219
Benzo[k]fluoranthene	50.0	54.6		ug/L		109	11 - 162
Bis(2-chloroethoxy)methane	50.0	48.3		ug/L		97	33 - 184
Bis(2-chloroethyl)ether	50.0	44.6		ug/L		89	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	55.0		ug/L		110	8 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-588356/2-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	50.0	55.6		ug/L		111	1 - 152
Chrysene	50.0	57.7		ug/L		115	17 - 168
Di-n-butyl phthalate	50.0	53.5		ug/L		107	1 - 120
Di-n-octyl phthalate	50.0	54.4		ug/L		109	4 - 146
Dibenz(a,h)anthracene	50.0	54.8		ug/L		110	1 - 227
Diethyl phthalate	50.0	50.9		ug/L		102	1 - 120
Dimethyl phthalate	50.0	51.8		ug/L		104	1 - 120
Fluoranthene	50.0	52.7		ug/L		105	26 - 137
Fluorene	50.0	49.1		ug/L		98	59 - 121
Hexachlorobenzene	50.0	55.0		ug/L		110	1 - 152
Hexachlorocyclopentadiene	50.0	38.2		ug/L		76	5 - 120
Hexachloroethane	50.0	33.1		ug/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	52.6		ug/L		105	1 - 171
Isophorone	50.0	47.6		ug/L		95	21 - 196
N-Nitrosodi-n-propylamine	50.0	44.4		ug/L		89	1 - 230
N-Nitrosodiphenylamine	50.0	51.8		ug/L		104	54 - 125
Naphthalene	50.0	43.5		ug/L		87	21 - 133
Nitrobenzene	50.0	44.4		ug/L		89	35 - 180
Pentachlorophenol	100	120		ug/L		120	14 - 176
Phenanthrene	50.0	54.3		ug/L		109	54 - 120
Phenol	50.0	21.8		ug/L		44	5 - 120
Pyrene	50.0	54.6		ug/L		109	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*119*		*52 - 151*
2-Fluorobiphenyl	*92*		*44 - 120*
2-Fluorophenol	*59*		*17 - 120*
Nitrobenzene-d5	*89*		*15 - 314*
p-Terphenyl-d14	*112*		*22 - 125*
Phenol-d5	*42*		*8 - 424*

Lab Sample ID: LCSD 480-588356/3-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	39.3		ug/L		79	44 - 142	3	34
1,2-Dichlorobenzene	50.0	35.0		ug/L		70	32 - 129	6	38
1,3-Dichlorobenzene	50.0	32.6		ug/L		65	1 - 172	8	37
1,4-Dichlorobenzene	50.0	34.4		ug/L		69	20 - 124	5	40
2,2'-Oxybis(1-chloropropane)	50.0	33.9		ug/L		68	36 - 166	6	36
2,4,6-Trichlorophenol	50.0	49.6		ug/L		99	37 - 144	4	20
2,4-Dichlorophenol	50.0	47.9		ug/L		96	39 - 135	7	23
2,4-Dimethylphenol	50.0	44.4		ug/L		89	32 - 120	3	18
2,4-Dinitrophenol	100	116		ug/L		116	1 - 191	5	29
2,4-Dinitrotoluene	50.0	50.9		ug/L		102	39 - 139	3	20
2,6-Dinitrotoluene	50.0	49.4		ug/L		99	50 - 158	6	17
2-Chloronaphthalene	50.0	44.8		ug/L		90	60 - 120	1	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-588356/3-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588356

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol			50.0	41.3		ug/L		83	23 - 134	8	26
2-Nitrophenol			50.0	50.4		ug/L		101	29 - 182	2	28
3,3'-Dichlorobenzidine			100	105		ug/L		105	1 - 262	1	31
4,6-Dinitro-2-methylphenol			100	127		ug/L		127	1 - 181	6	30
4-Bromophenyl phenyl ether			50.0	51.9		ug/L		104	53 - 127	4	16
4-Chloro-3-methylphenol			50.0	46.9		ug/L		94	22 - 147	10	16
4-Chlorophenyl phenyl ether			50.0	48.7		ug/L		97	25 - 158	4	15
4-Nitrophenol			100	47.6		ug/L		48	1 - 132	8	24
Acenaphthene			50.0	45.6		ug/L		91	47 - 145	1	25
Acenaphthylene			50.0	47.3		ug/L		95	33 - 145	2	22
Anthracene			50.0	50.4		ug/L		101	27 - 133	6	15
Benzidine			100	ND	*-	ug/L		0	1 - 120	NC	50
Benzo[a]anthracene			50.0	53.0		ug/L		106	33 - 143	6	15
Benzo[a]pyrene			50.0	49.3		ug/L		99	17 - 163	4	15
Benzo[b]fluoranthene			50.0	49.9		ug/L		100	24 - 159	7	17
Benzo[g,h,i]perylene			50.0	50.7		ug/L		101	1 - 219	2	19
Benzo[k]fluoranthene			50.0	54.5		ug/L		109	11 - 162	0	19
Bis(2-chloroethoxy)methane			50.0	46.8		ug/L		94	33 - 184	3	23
Bis(2-chloroethyl)ether			50.0	42.1		ug/L		84	12 - 158	6	33
Bis(2-ethylhexyl) phthalate			50.0	51.2		ug/L		102	8 - 158	7	15
Butyl benzyl phthalate			50.0	51.7		ug/L		103	1 - 152	7	15
Chrysene			50.0	54.4		ug/L		109	17 - 168	6	15
Di-n-butyl phthalate			50.0	48.9		ug/L		98	1 - 120	9	15
Di-n-octyl phthalate			50.0	50.2		ug/L		100	4 - 146	8	15
Dibenz(a,h)anthracene			50.0	52.8		ug/L		106	1 - 227	4	18
Diethyl phthalate			50.0	48.0		ug/L		96	1 - 120	6	15
Dimethyl phthalate			50.0	49.0		ug/L		98	1 - 120	6	15
Fluoranthene			50.0	49.8		ug/L		100	26 - 137	6	15
Fluorene			50.0	47.0		ug/L		94	59 - 121	4	18
Hexachlorobenzene			50.0	52.2		ug/L		104	1 - 152	5	15
Hexachlorocyclopentadiene			50.0	37.4		ug/L		75	5 - 120	2	50
Hexachloroethane			50.0	30.8		ug/L		62	40 - 120	7	43
Indeno[1,2,3-cd]pyrene			50.0	50.9		ug/L		102	1 - 171	3	17
Isophorone			50.0	45.2		ug/L		90	21 - 196	5	21
N-Nitrosodi-n-propylamine			50.0	41.4		ug/L		83	1 - 230	7	23
N-Nitrosodiphenylamine			50.0	50.4		ug/L		101	54 - 125	3	15
Naphthalene			50.0	42.2		ug/L		84	21 - 133	3	31
Nitrobenzene			50.0	42.3		ug/L		85	35 - 180	5	27
Pentachlorophenol			100	116		ug/L		116	14 - 176	4	21
Phenanthrene			50.0	51.1		ug/L		102	54 - 120	6	16
Phenol			50.0	20.1		ug/L		40	5 - 120	8	36
Pyrene			50.0	51.5		ug/L		103	52 - 120	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*116*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol	*56*		*17 - 120*
Nitrobenzene-d5	*87*		*15 - 314*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-588356/3-A
Matrix: Water
Analysis Batch: 588525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588356

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl-d14	*107*		*22 - 125*
Phenol-d5	*39*		*8 - 424*

Lab Sample ID: MB 480-588778/1-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		07/12/21 16:09	07/14/21 17:33	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		07/12/21 16:09	07/14/21 17:33	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		07/12/21 16:09	07/14/21 17:33	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		07/12/21 16:09	07/14/21 17:33	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		07/12/21 16:09	07/14/21 17:33	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 17:33	1
2-Chlorophenol	ND		5.0	0.17	ug/L		07/12/21 16:09	07/14/21 17:33	1
2-Nitrophenol	ND		5.0	0.18	ug/L		07/12/21 16:09	07/14/21 17:33	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 17:33	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		07/12/21 16:09	07/14/21 17:33	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 17:33	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 17:33	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 17:33	1
4-Nitrophenol	ND		15	0.49	ug/L		07/12/21 16:09	07/14/21 17:33	1
Acenaphthene	ND		5.0	0.20	ug/L		07/12/21 16:09	07/14/21 17:33	1
Acenaphthylene	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 17:33	1
Anthracene	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzidine	ND		80	14	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 17:33	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		07/12/21 16:09	07/14/21 17:33	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 17:33	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 17:33	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		07/12/21 16:09	07/14/21 17:33	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		07/12/21 16:09	07/14/21 17:33	1
Chrysene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
Decane	ND		10	0.40	ug/L		07/12/21 16:09	07/14/21 17:33	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 17:33	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 17:33	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 17:33	1
Diethyl phthalate	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-588778/1-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		5.0	0.23	ug/L		07/12/21 16:09	07/14/21 17:33	1
Fluoranthene	ND		5.0	0.40	ug/L		07/12/21 16:09	07/14/21 17:33	1
Fluorene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		07/12/21 16:09	07/14/21 17:33	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		07/12/21 16:09	07/14/21 17:33	1
Hexachloroethane	ND		5.0	0.15	ug/L		07/12/21 16:09	07/14/21 17:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		07/12/21 16:09	07/14/21 17:33	1
Isophorone	ND		5.0	0.19	ug/L		07/12/21 16:09	07/14/21 17:33	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 17:33	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		07/12/21 16:09	07/14/21 17:33	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		07/12/21 16:09	07/14/21 17:33	1
Naphthalene	ND		5.0	0.22	ug/L		07/12/21 16:09	07/14/21 17:33	1
Nitrobenzene	ND		5.0	0.20	ug/L		07/12/21 16:09	07/14/21 17:33	1
Pentachlorophenol	ND		10	0.79	ug/L		07/12/21 16:09	07/14/21 17:33	1
Phenanthrene	ND		5.0	0.30	ug/L		07/12/21 16:09	07/14/21 17:33	1
Phenol	ND		5.0	0.088	ug/L		07/12/21 16:09	07/14/21 17:33	1
Pyrene	ND		5.0	0.35	ug/L		07/12/21 16:09	07/14/21 17:33	1
n-Octadecane	ND		10	0.30	ug/L		07/12/21 16:09	07/14/21 17:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*52 - 151*	*07/12/21 16:09*	*07/14/21 17:33*	*1*
2-Fluorobiphenyl	*91*		*44 - 120*	*07/12/21 16:09*	*07/14/21 17:33*	*1*
2-Fluorophenol	*49*		*17 - 120*	*07/12/21 16:09*	*07/14/21 17:33*	*1*
Nitrobenzene-d5	*91*		*15 - 314*	*07/12/21 16:09*	*07/14/21 17:33*	*1*
p-Terphenyl-d14	*107*		*22 - 125*	*07/12/21 16:09*	*07/14/21 17:33*	*1*
Phenol-d5	*34*		*8 - 424*	*07/12/21 16:09*	*07/14/21 17:33*	*1*

Lab Sample ID: LCS 480-588778/2-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	44 - 142
1,2-Dichlorobenzene	50.0	37.0		ug/L		74	32 - 129
1,3-Dichlorobenzene	50.0	35.3		ug/L		71	1 - 172
1,4-Dichlorobenzene	50.0	36.2		ug/L		72	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	33.8		ug/L		68	36 - 166
2,4,6-Trichlorophenol	50.0	44.5		ug/L		89	37 - 144
2,4-Dichlorophenol	50.0	46.0		ug/L		92	39 - 135
2,4-Dimethylphenol	50.0	44.7		ug/L		89	32 - 120
2,4-Dinitrophenol	100	95.3		ug/L		95	1 - 191
2,4-Dinitrotoluene	50.0	49.5		ug/L		99	39 - 139
2,6-Dinitrotoluene	50.0	46.6		ug/L		93	50 - 158
2-Chloronaphthalene	50.0	42.1		ug/L		84	60 - 120
2-Chlorophenol	50.0	37.7		ug/L		75	23 - 134
2-Nitrophenol	50.0	42.4		ug/L		85	29 - 182
3,3'-Dichlorobenzidine	100	99.8		ug/L		100	1 - 262

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-588778/2-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,6-Dinitro-2-methylphenol	100	107		ug/L		107	1 - 181
4-Bromophenyl phenyl ether	50.0	51.2		ug/L		102	53 - 127
4-Chloro-3-methylphenol	50.0	50.9		ug/L		102	22 - 147
4-Chlorophenyl phenyl ether	50.0	47.8		ug/L		96	25 - 158
4-Nitrophenol	100	53.4		ug/L		53	1 - 132
Acenaphthene	50.0	43.8		ug/L		88	47 - 145
Acenaphthylene	50.0	46.6		ug/L		93	33 - 145
Anthracene	50.0	50.7		ug/L		101	27 - 133
Benzidine	100	ND		ug/L		4	1 - 120
Benzo[a]anthracene	50.0	51.4		ug/L		103	33 - 143
Benzo[a]pyrene	50.0	46.9		ug/L		94	17 - 163
Benzo[b]fluoranthene	50.0	48.4		ug/L		97	24 - 159
Benzo[g,h,i]perylene	50.0	48.1		ug/L		96	1 - 219
Benzo[k]fluoranthene	50.0	51.7		ug/L		103	11 - 162
Bis(2-chloroethoxy)methane	50.0	44.3		ug/L		89	33 - 184
Bis(2-chloroethyl)ether	50.0	38.4		ug/L		77	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	49.7		ug/L		99	8 - 158
Butyl benzyl phthalate	50.0	50.0		ug/L		100	1 - 152
Chrysene	50.0	50.2		ug/L		100	17 - 168
Di-n-butyl phthalate	50.0	53.5		ug/L		107	1 - 120
Di-n-octyl phthalate	50.0	48.9		ug/L		98	4 - 146
Dibenz(a,h)anthracene	50.0	51.2		ug/L		102	1 - 227
Diethyl phthalate	50.0	50.8		ug/L		102	1 - 120
Dimethyl phthalate	50.0	48.6		ug/L		97	1 - 120
Fluoranthene	50.0	52.4		ug/L		105	26 - 137
Fluorene	50.0	46.8		ug/L		94	59 - 121
Hexachlorobenzene	50.0	55.3		ug/L		111	1 - 152
Hexachlorocyclopentadiene	50.0	39.1		ug/L		78	5 - 120
Hexachloroethane	50.0	37.3		ug/L		75	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	49.2		ug/L		98	1 - 171
Isophorone	50.0	45.6		ug/L		91	21 - 196
N-Nitrosodi-n-propylamine	50.0	44.8		ug/L		90	1 - 230
N-Nitrosodiphenylamine	50.0	48.5		ug/L		97	54 - 125
Naphthalene	50.0	42.5		ug/L		85	21 - 133
Nitrobenzene	50.0	42.8		ug/L		86	35 - 180
Pentachlorophenol	100	106		ug/L		106	14 - 176
Phenanthrene	50.0	48.6		ug/L		97	54 - 120
Phenol	50.0	18.9		ug/L		38	5 - 120
Pyrene	50.0	48.5		ug/L		97	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*52 - 151*
2-Fluorobiphenyl	*88*		*44 - 120*
2-Fluorophenol	*47*		*17 - 120*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*104*		*22 - 125*
Phenol-d5	*33*		*8 - 424*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-588778/3-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588778

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	40.7		ug/L		81	44 - 142	2	34
1,2-Dichlorobenzene	50.0	36.9		ug/L		74	32 - 129	0	38
1,3-Dichlorobenzene	50.0	36.3		ug/L		73	1 - 172	3	37
1,4-Dichlorobenzene	50.0	37.2		ug/L		74	20 - 124	3	40
2,2'-Oxybis(1-chloropropane)	50.0	34.7		ug/L		69	36 - 166	2	36
2,4,6-Trichlorophenol	50.0	46.9		ug/L		94	37 - 144	5	20
2,4-Dichlorophenol	50.0	47.2		ug/L		94	39 - 135	3	23
2,4-Dimethylphenol	50.0	43.6		ug/L		87	32 - 120	2	18
2,4-Dinitrophenol	100	99.2		ug/L		99	1 - 191	4	29
2,4-Dinitrotoluene	50.0	52.0		ug/L		104	39 - 139	5	20
2,6-Dinitrotoluene	50.0	52.1		ug/L		104	50 - 158	11	17
2-Chloronaphthalene	50.0	43.4		ug/L		87	60 - 120	3	30
2-Chlorophenol	50.0	38.1		ug/L		76	23 - 134	1	26
2-Nitrophenol	50.0	42.5		ug/L		85	29 - 182	0	28
3,3'-Dichlorobenzidine	100	105		ug/L		105	1 - 262	5	31
4,6-Dinitro-2-methylphenol	100	110		ug/L		110	1 - 181	3	30
4-Bromophenyl phenyl ether	50.0	52.0		ug/L		104	53 - 127	1	16
4-Chloro-3-methylphenol	50.0	51.0		ug/L		102	22 - 147	0	16
4-Chlorophenyl phenyl ether	50.0	49.0		ug/L		98	25 - 158	2	15
4-Nitrophenol	100	58.9		ug/L		59	1 - 132	10	24
Acenaphthene	50.0	45.9		ug/L		92	47 - 145	5	25
Acenaphthylene	50.0	48.5		ug/L		97	33 - 145	4	22
Anthracene	50.0	50.6		ug/L		101	27 - 133	0	15
Benzidine	100	ND	*- *1	ug/L		0.3	1 - 120	175	50
Benzo[a]anthracene	50.0	51.9		ug/L		104	33 - 143	1	15
Benzo[a]pyrene	50.0	48.0		ug/L		96	17 - 163	2	15
Benzo[b]fluoranthene	50.0	48.2		ug/L		96	24 - 159	1	17
Benzo[g,h,i]perylene	50.0	47.3		ug/L		95	1 - 219	2	19
Benzo[k]fluoranthene	50.0	51.7		ug/L		103	11 - 162	0	19
Bis(2-chloroethoxy)methane	50.0	43.8		ug/L		88	33 - 184	1	23
Bis(2-chloroethyl)ether	50.0	38.6		ug/L		77	12 - 158	1	33
Bis(2-ethylhexyl) phthalate	50.0	51.4		ug/L		103	8 - 158	3	15
Butyl benzyl phthalate	50.0	52.6		ug/L		105	1 - 152	5	15
Chrysene	50.0	50.8		ug/L		102	17 - 168	1	15
Di-n-butyl phthalate	50.0	53.3		ug/L		107	1 - 120	0	15
Di-n-octyl phthalate	50.0	50.6		ug/L		101	4 - 146	3	15
Dibenz(a,h)anthracene	50.0	50.0		ug/L		100	1 - 227	2	18
Diethyl phthalate	50.0	53.2		ug/L		106	1 - 120	5	15
Dimethyl phthalate	50.0	50.0		ug/L		100	1 - 120	3	15
Fluoranthene	50.0	52.2		ug/L		104	26 - 137	0	15
Fluorene	50.0	49.2		ug/L		98	59 - 121	5	18
Hexachlorobenzene	50.0	53.2		ug/L		106	1 - 152	4	15
Hexachlorocyclopentadiene	50.0	40.6		ug/L		81	5 - 120	4	50
Hexachloroethane	50.0	37.7		ug/L		75	40 - 120	1	43
Indeno[1,2,3-cd]pyrene	50.0	48.6		ug/L		97	1 - 171	1	17
Isophorone	50.0	45.1		ug/L		90	21 - 196	1	21
N-Nitrosodi-n-propylamine	50.0	43.3		ug/L		87	1 - 230	3	23
N-Nitrosodiphenylamine	50.0	49.7		ug/L		99	54 - 125	2	15

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-588778/3-A
Matrix: Water
Analysis Batch: 589056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			50.0	41.8		ug/L		84	21 - 133	2	31
Nitrobenzene			50.0	42.2		ug/L		84	35 - 180	1	27
Pentachlorophenol			100	107		ug/L		107	14 - 176	1	21
Phenanthrene			50.0	48.9		ug/L		98	54 - 120	1	16
Phenol			50.0	18.8		ug/L		38	5 - 120	0	36
Pyrene			50.0	50.8		ug/L		102	52 - 120	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*108*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*48*		*17 - 120*
Nitrobenzene-d5	*88*		*15 - 314*
p-Terphenyl-d14	*105*		*22 - 125*
Phenol-d5	*34*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-589436/1-A
Matrix: Water
Analysis Batch: 589691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		07/19/21 08:57	07/20/21 01:41	1

Lab Sample ID: LCS 480-589436/2-A
Matrix: Water
Analysis Batch: 589691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589436

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Zinc			0.200	0.209		mg/L		105	85 - 115		

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-589215/1-A
Matrix: Water
Analysis Batch: 589269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		07/15/21 13:20	07/15/21 16:09	1

Lab Sample ID: LCS 480-589215/2-A
Matrix: Water
Analysis Batch: 589269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00680		mg/L		102	85 - 115		

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-588397/1-A
Matrix: Water
Analysis Batch: 588458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		07/08/21 10:40	07/08/21 16:01	1

Lab Sample ID: LCS 480-588397/2-A
Matrix: Water
Analysis Batch: 588458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.398		mg/L		100	90 - 110

Lab Sample ID: LCS 480-588397/3-A
Matrix: Water
Analysis Batch: 588458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-588581/23
Matrix: Water
Analysis Batch: 588581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 789406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-5	TRIP BLANK	Total/NA	Water	624.1	
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	624.1	
MB 460-789406/11	Method Blank	Total/NA	Water	624.1	
LCS 460-789406/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-789406/8	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 588356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	625	
MB 480-588356/1-A	Method Blank	Total/NA	Water	625	
LCS 480-588356/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-588356/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 588525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	625.1	588356
MB 480-588356/1-A	Method Blank	Total/NA	Water	625.1	588356
LCS 480-588356/2-A	Lab Control Sample	Total/NA	Water	625.1	588356
LCSD 480-588356/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	588356

Prep Batch: 588778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6 - RE	COMPOSITE 001 1-4	Total/NA	Water	625	
MB 480-588778/1-A	Method Blank	Total/NA	Water	625	
LCS 480-588778/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-588778/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 589056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6 - RE	COMPOSITE 001 1-4	Total/NA	Water	625.1	588778
MB 480-588778/1-A	Method Blank	Total/NA	Water	625.1	588778
LCS 480-588778/2-A	Lab Control Sample	Total/NA	Water	625.1	588778
LCSD 480-588778/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	588778

Metals

Prep Batch: 589215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	
MB 480-589215/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-589215/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 589269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	245.1	589215
MB 480-589215/1-A	Method Blank	Total/NA	Water	245.1	589215
LCS 480-589215/2-A	Lab Control Sample	Total/NA	Water	245.1	589215

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Metals

Prep Batch: 589436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	200.7	
MB 480-589436/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-589436/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 589691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	200.7 Rev 4.4	589436
MB 480-589436/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	589436
LCS 480-589436/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	589436

General Chemistry

Prep Batch: 588397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	Distill/CN	
MB 480-588397/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-588397/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-588397/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 588458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	335.4	588397
MB 480-588397/1-A	Method Blank	Total/NA	Water	335.4	588397
LCS 480-588397/2-A	Lab Control Sample	Total/NA	Water	335.4	588397
LCS 480-588397/3-A	Lab Control Sample	Total/NA	Water	335.4	588397

Analysis Batch: 588581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186856-6	COMPOSITE 001 1-4	Total/NA	Water	SM 4500 H+ B	
LCS 480-588581/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-186856-5
Date Collected: 07/06/21 00:00
Matrix: Water
Date Received: 07/06/21 13:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	789406	07/09/21 21:39	AAT	TAL EDI

Client Sample ID: COMPOSITE 001 1-4
Lab Sample ID: 480-186856-6
Date Collected: 07/06/21 13:10
Matrix: Water
Date Received: 07/06/21 13:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	789406	07/09/21 22:02	AAT	TAL EDI
Total/NA	Prep	625	RE		588778	07/12/21 16:09	CMC	TAL BUF
Total/NA	Analysis	625.1	RE	1	589056	07/14/21 20:20	PJQ	TAL BUF
Total/NA	Prep	625			588356	07/08/21 06:58	SMP	TAL BUF
Total/NA	Analysis	625.1		1	588525	07/09/21 13:25	JMM	TAL BUF
Total/NA	Prep	200.7			589436	07/19/21 08:57	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	589691	07/20/21 02:34	LMH	TAL BUF
Total/NA	Prep	245.1			589215	07/15/21 13:20	BMB	TAL BUF
Total/NA	Analysis	245.1		1	589269	07/15/21 16:12	BMB	TAL BUF
Total/NA	Prep	Distill/CN			588397	07/08/21 10:40	JPS	TAL BUF
Total/NA	Analysis	335.4		1	588458	07/08/21 16:27	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	588581	07/09/21 12:48	JPS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-186856-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-186856-5	TRIP BLANK	Water	07/06/21 00:00	07/06/21 13:26	
480-186856-6	COMPOSITE 001 1-4	Water	07/06/21 13:10	07/06/21 13:26	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153389-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:
City: Syracuse	TAT Requested (days): Standard Turn
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056
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	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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	B	N	N	N		
001-1	7/6/21	0710	G	Water			X	X	X	X	X		Lab To
001-2	↓	0910	↓				X	X	X	X	X		Composite
001-3		1110					X	X	X	X	X		Samples
001-4		1310					X	X	X	X	X		
Trip Blank	—	—									X		
													Short Hold
													Time

480-186856 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Dan Gutkowski	7/6/21 / 1326	Arcadis		7/6/21 1326	ETA-Buffalo
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.:	Cooler Temperature(s) °C and Other Remarks: 3.0 ICE

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-64979.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-186856-1
Address: 777 New Durham Road, ,	Due Date Requested: 7/19/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Iroquois Gas/Westwood Pharm.	Project #: 48011056			
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)	624.1_PREC/624_Prep_3D (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TRIP BLANK (480-186856-5)	7/6/21	Eastern		Water			X	1	COMPOSITE VIALS
COMPOSITE 001 1-4 (480-186856-6)	7/6/21	13:10 Eastern		Water			X	1	

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
1	Christopher Lucio	7/7/21 1700	TA	Via Fedex	7/8/21 09:50	ETA.
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: ID#9-3.4=2.9

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-186856-1

Login Number: 186856
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-186856-1

Login Number: 186856
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison
List Creation: 07/09/21 08:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	2.9°C, IR #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.	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.	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	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-187873-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
8/16/2021 10:53:47 AM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS Semi VOA

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.

Metals

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.

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
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

Job ID: 480-187873-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-187873-1

Comments
No additional comments.

Receipt
The samples were received on 8/2/2021 2:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Exceptions
Lab did not reciev trip blank.

001-1 (480-187873-1), 001-2 (480-187873-2), 001-3 (480-187873-3), 001-4 (480-187873-4) and Composite 001-1 to -4 (480-187873-5)

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

GC/MS Semi VOA
Method 625.1: The matrix spike duplicate (MSD) recoveries for preparation batch 480-591557 and analytical batch 480-591631 were below the method detection limit (MDL) for Benzidine. Percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals
Method 200.7: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: Composite 001-1 to -4 (480-187873-5). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. preserved on 8-4-21 at 1700. second check done on 8/6/21 at 0750.

Method 245.1: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: Composite 001-1 to -4 (480-187873-5). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. preserved 8/4/21 at 1700 2nd check 8/6/21 at 0750

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

General Chemistry
Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Composite 001-1 to -4 (480-187873-5).

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

Organic Prep
Method 625: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: Composite 001-1 to -4 (480-187873-5), (480-187873-A-5 MS) and (480-187873-A-5 MSD). The reporting limits (RLs) have been adjusted proportionately.

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-187873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	11		10	0.18	ug/L	1		625.1	Total/NA
Zinc	0.028	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Cyanide, Total	0.16		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Composite 001-1 to -4

Date Collected: 08/02/21 13:55
Date Received: 08/02/21 14:17

Lab Sample ID: 480-187873-5

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/05/21 13:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/05/21 13:58	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/05/21 13:58	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/05/21 13:58	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/05/21 13:58	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/05/21 13:58	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			08/05/21 13:58	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			08/05/21 13:58	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/05/21 13:58	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/05/21 13:58	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/05/21 13:58	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/05/21 13:58	1
Acrolein	ND		4.0	1.1	ug/L			08/05/21 13:58	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/05/21 13:58	1
Benzene	ND		1.0	0.43	ug/L			08/05/21 13:58	1
Bromoform	ND		1.0	0.54	ug/L			08/05/21 13:58	1
Bromomethane	ND		1.0	0.45	ug/L			08/05/21 13:58	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/05/21 13:58	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/05/21 13:58	1
Dibromochloromethane	ND		1.0	0.13	ug/L			08/05/21 13:58	1
Chloroethane	ND		1.0	0.32	ug/L			08/05/21 13:58	1
Chloroform	ND		1.0	0.33	ug/L			08/05/21 13:58	1
Chloromethane	ND		1.0	0.43	ug/L			08/05/21 13:58	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/05/21 13:58	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/05/21 13:58	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/05/21 13:58	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/05/21 13:58	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/05/21 13:58	1
Toluene	ND		1.0	0.38	ug/L			08/05/21 13:58	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/05/21 13:58	1
Trichloroethene	ND		1.0	0.31	ug/L			08/05/21 13:58	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/05/21 13:58	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/05/21 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*		*08/05/21 13:58*	*1*
4-Bromofluorobenzene	*80*		*60 - 140*		*08/05/21 13:58*	*1*
Toluene-d8 (Surr)	*84*		*60 - 140*		*08/05/21 13:58*	*1*
Dibromofluoromethane (Surr)	*88*		*60 - 140*		*08/05/21 13:58*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		20	0.41	ug/L		08/03/21 15:52	08/04/21 12:31	1
1,2-Dichlorobenzene	ND		20	0.52	ug/L		08/03/21 15:52	08/04/21 12:31	1
1,2-Diphenylhydrazine	ND		20	0.39	ug/L		08/03/21 15:52	08/04/21 12:31	1
1,3-Dichlorobenzene	ND		20	0.35	ug/L		08/03/21 15:52	08/04/21 12:31	1
1,4-Dichlorobenzene	ND		20	0.41	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,2'-Oxybis(1-chloropropane)	ND		10	0.42	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,4,6-Trichlorophenol	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,4-Dichlorophenol	ND		10	0.39	ug/L		08/03/21 15:52	08/04/21 12:31	1

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-187873-5

Date Collected: 08/02/21 13:55
Matrix: Water
Date Received: 08/02/21 14:17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	0.70	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,4-Dinitrophenol	ND		20	2.5	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,4-Dinitrotoluene	ND		20	0.81	ug/L		08/03/21 15:52	08/04/21 12:31	1
2,6-Dinitrotoluene	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
2-Chloronaphthalene	ND		10	0.46	ug/L		08/03/21 15:52	08/04/21 12:31	1
2-Chlorophenol	ND		10	0.33	ug/L		08/03/21 15:52	08/04/21 12:31	1
2-Nitrophenol	ND		10	0.35	ug/L		08/03/21 15:52	08/04/21 12:31	1
3,3'-Dichlorobenzidine	ND		10	0.80	ug/L		08/03/21 15:52	08/04/21 12:31	1
4,6-Dinitro-2-methylphenol	ND		20	0.90	ug/L		08/03/21 15:52	08/04/21 12:31	1
4-Bromophenyl phenyl ether	ND		10	0.70	ug/L		08/03/21 15:52	08/04/21 12:31	1
4-Chloro-3-methylphenol	ND		10	0.55	ug/L		08/03/21 15:52	08/04/21 12:31	1
4-Chlorophenyl phenyl ether	ND		10	0.65	ug/L		08/03/21 15:52	08/04/21 12:31	1
4-Nitrophenol	ND		30	0.97	ug/L		08/03/21 15:52	08/04/21 12:31	1
Acenaphthene	ND		10	0.41	ug/L		08/03/21 15:52	08/04/21 12:31	1
Acenaphthylene	ND		10	0.44	ug/L		08/03/21 15:52	08/04/21 12:31	1
Anthracene	ND		10	0.70	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzidine	ND	F1	160	27	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzo[a]anthracene	ND		10	0.55	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzo[a]pyrene	ND		10	0.65	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzo[b]fluoranthene	ND		10	0.60	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzo[g,h,i]perylene	ND		10	0.75	ug/L		08/03/21 15:52	08/04/21 12:31	1
Benzo[k]fluoranthene	ND		10	0.65	ug/L		08/03/21 15:52	08/04/21 12:31	1
Bis(2-chloroethoxy)methane	ND		10	0.38	ug/L		08/03/21 15:52	08/04/21 12:31	1
Bis(2-chloroethyl)ether	ND		10	0.47	ug/L		08/03/21 15:52	08/04/21 12:31	1
Bis(2-ethylhexyl) phthalate	ND		20	0.60	ug/L		08/03/21 15:52	08/04/21 12:31	1
Butyl benzyl phthalate	ND		10	0.55	ug/L		08/03/21 15:52	08/04/21 12:31	1
Chrysene	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
Decane	ND		20	0.80	ug/L		08/03/21 15:52	08/04/21 12:31	1
Di-n-butyl phthalate	ND		10	0.80	ug/L		08/03/21 15:52	08/04/21 12:31	1
Di-n-octyl phthalate	ND		10	0.60	ug/L		08/03/21 15:52	08/04/21 12:31	1
Dibenz(a,h)anthracene	ND		10	0.75	ug/L		08/03/21 15:52	08/04/21 12:31	1
Diethyl phthalate	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
Dimethyl phthalate	ND		10	0.46	ug/L		08/03/21 15:52	08/04/21 12:31	1
Fluoranthene	ND		10	0.80	ug/L		08/03/21 15:52	08/04/21 12:31	1
Fluorene	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
Hexachlorobenzene	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
Hexachlorobutadiene	ND		10	0.50	ug/L		08/03/21 15:52	08/04/21 12:31	1
Hexachlorocyclopentadiene	ND		20	1.1	ug/L		08/03/21 15:52	08/04/21 12:31	1
Hexachloroethane	ND		10	0.30	ug/L		08/03/21 15:52	08/04/21 12:31	1
Indeno[1,2,3-cd]pyrene	ND		10	0.75	ug/L		08/03/21 15:52	08/04/21 12:31	1
Isophorone	ND		10	0.37	ug/L		08/03/21 15:52	08/04/21 12:31	1
N-Nitrosodi-n-propylamine	ND		10	0.45	ug/L		08/03/21 15:52	08/04/21 12:31	1
N-Nitrosodimethylamine	ND		20	0.29	ug/L		08/03/21 15:52	08/04/21 12:31	1
N-Nitrosodiphenylamine	ND		10	0.41	ug/L		08/03/21 15:52	08/04/21 12:31	1
Naphthalene	ND		10	0.43	ug/L		08/03/21 15:52	08/04/21 12:31	1
Nitrobenzene	ND		10	0.41	ug/L		08/03/21 15:52	08/04/21 12:31	1
Pentachlorophenol	ND		20	1.6	ug/L		08/03/21 15:52	08/04/21 12:31	1
Phenanthrene	ND		10	0.60	ug/L		08/03/21 15:52	08/04/21 12:31	1
Phenol	**11**		10	0.18	ug/L		08/03/21 15:52	08/04/21 12:31	1

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-187873-5
Date Collected: 08/02/21 13:55
Matrix: Water
Date Received: 08/02/21 14:17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		10	0.70	ug/L		08/03/21 15:52	08/04/21 12:31	1
n-Octadecane	ND		20	0.60	ug/L		08/03/21 15:52	08/04/21 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*52 - 151*	*08/03/21 15:52*	*08/04/21 12:31*	*1*
2-Fluorobiphenyl	*94*		*44 - 120*	*08/03/21 15:52*	*08/04/21 12:31*	*1*
2-Fluorophenol	*47*		*17 - 120*	*08/03/21 15:52*	*08/04/21 12:31*	*1*
Nitrobenzene-d5	*88*		*15 - 314*	*08/03/21 15:52*	*08/04/21 12:31*	*1*
p-Terphenyl-d14	*106*		*22 - 125*	*08/03/21 15:52*	*08/04/21 12:31*	*1*
Phenol-d5	*34*		*8 - 424*	*08/03/21 15:52*	*08/04/21 12:31*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.028**	**B**	0.010	0.0015	mg/L		08/06/21 08:15	08/09/21 16:40	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/06/21 12:50	08/06/21 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.16**		0.010	0.0050	mg/L		08/05/21 13:11	08/05/21 17:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.1	0.1	SU			08/06/21 13:33	1
Temperature	**20.6**	**HF**	0.001	0.001	Degrees C			08/06/21 13:33	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
480-187873-5	Composite 001-1 to -4	93	80	84	88
LCS 460-794600/4	Lab Control Sample	106	92	99	101
MB 460-794600/9	Method Blank	98	83	90	92

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-187873-5	Composite 001-1 to -4	90	94	47	88	106	34
480-187873-5 MS	Composite 001-1 to -4	94	85	45	84	94	32
480-187873-5 MSD	Composite 001-1 to -4	97	91	48	86	100	36
LCS 480-591557/2-A	Lab Control Sample	106	103	54	98	111	41
MB 480-591557/1-A	Method Blank	76	90	45	81	99	31

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-794600/9
Matrix: Water
Analysis Batch: 794600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/05/21 09:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/05/21 09:31	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/05/21 09:31	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/05/21 09:31	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/05/21 09:31	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/05/21 09:31	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			08/05/21 09:31	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			08/05/21 09:31	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/05/21 09:31	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/05/21 09:31	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/05/21 09:31	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/05/21 09:31	1
Acrolein	ND		4.0	1.1	ug/L			08/05/21 09:31	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/05/21 09:31	1
Benzene	ND		1.0	0.43	ug/L			08/05/21 09:31	1
Bromoform	ND		1.0	0.54	ug/L			08/05/21 09:31	1
Bromomethane	ND		1.0	0.45	ug/L			08/05/21 09:31	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/05/21 09:31	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/05/21 09:31	1
Dibromochloromethane	ND		1.0	0.13	ug/L			08/05/21 09:31	1
Chloroethane	ND		1.0	0.32	ug/L			08/05/21 09:31	1
Chloroform	ND		1.0	0.33	ug/L			08/05/21 09:31	1
Chloromethane	ND		1.0	0.43	ug/L			08/05/21 09:31	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/05/21 09:31	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/05/21 09:31	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/05/21 09:31	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/05/21 09:31	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/05/21 09:31	1
Toluene	ND		1.0	0.38	ug/L			08/05/21 09:31	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/05/21 09:31	1
Trichloroethene	ND		1.0	0.31	ug/L			08/05/21 09:31	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/05/21 09:31	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/05/21 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*08/05/21 09:31*	*1*
4-Bromofluorobenzene	*83*		*60 - 140*		*08/05/21 09:31*	*1*
Toluene-d8 (Surr)	*90*		*60 - 140*		*08/05/21 09:31*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*		*08/05/21 09:31*	*1*

Lab Sample ID: LCS 460-794600/4
Matrix: Water
Analysis Batch: 794600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	20.0	15.4		ug/L		77	60 - 140
1,1,2-Trichloroethane	20.0	16.3		ug/L		81	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-794600/4
Matrix: Water
Analysis Batch: 794600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	17.2		ug/L		86	70 - 130
1,1-Dichloroethene	20.0	17.0		ug/L		85	50 - 150
1,2-Dichlorobenzene	20.0	16.2		ug/L		81	65 - 135
1,2-Dichloroethane	20.0	18.5		ug/L		92	70 - 130
1,2-Dichloroethene, Total	40.0	32.9		ug/L		82	60 - 140
1,2-Dichloropropane	20.0	16.9		ug/L		84	35 - 165
1,3-Dichlorobenzene	20.0	16.2		ug/L		81	70 - 130
1,4-Dichlorobenzene	20.0	16.0		ug/L		80	65 - 135
2-Chloroethyl vinyl ether	20.0	15.8		ug/L		79	0.1 - 225
Acrolein	40.6	40.2		ug/L		99	10 - 150
Acrylonitrile	200	175		ug/L		88	60 - 140
Benzene	20.0	16.8		ug/L		84	65 - 135
Bromoform	20.0	14.6		ug/L		73	70 - 130
Bromomethane	20.0	14.5		ug/L		72	15 - 185
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 130
Chlorobenzene	20.0	16.7		ug/L		83	65 - 135
Dibromochloromethane	20.0	16.3		ug/L		82	70 - 135
Chloroethane	20.0	16.4		ug/L		82	40 - 160
Chloroform	20.0	17.7		ug/L		89	70 - 135
Chloromethane	20.0	17.5		ug/L		88	0.1 - 205
cis-1,3-Dichloropropene	20.0	16.7		ug/L		84	25 - 175
Bromodichloromethane	20.0	17.8		ug/L		89	65 - 135
Ethylbenzene	20.0	16.9		ug/L		85	60 - 140
Methylene Chloride	20.0	16.5		ug/L		83	60 - 140
Tetrachloroethene	20.0	16.1		ug/L		80	70 - 130
Toluene	20.0	16.3		ug/L		81	70 - 130
trans-1,3-Dichloropropene	20.0	16.3		ug/L		82	50 - 150
Trichloroethene	20.0	16.9		ug/L		85	65 - 135
Trichlorofluoromethane	20.0	19.4		ug/L		97	50 - 150
Vinyl chloride	20.0	17.7		ug/L		88	5 - 195

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene	*92*		*60 - 140*
Toluene-d8 (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-591557/1-A
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		08/03/21 15:52	08/04/21 10:54	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		08/03/21 15:52	08/04/21 10:54	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		08/03/21 15:52	08/04/21 10:54	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		08/03/21 15:52	08/04/21 10:54	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		08/03/21 15:52	08/04/21 10:54	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-591557/1-A
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		08/03/21 15:52	08/04/21 10:54	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		08/03/21 15:52	08/04/21 10:54	1
2-Chlorophenol	ND		5.0	0.17	ug/L		08/03/21 15:52	08/04/21 10:54	1
2-Nitrophenol	ND		5.0	0.18	ug/L		08/03/21 15:52	08/04/21 10:54	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/03/21 15:52	08/04/21 10:54	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		08/03/21 15:52	08/04/21 10:54	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		08/03/21 15:52	08/04/21 10:54	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		08/03/21 15:52	08/04/21 10:54	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		08/03/21 15:52	08/04/21 10:54	1
4-Nitrophenol	ND		15	0.49	ug/L		08/03/21 15:52	08/04/21 10:54	1
Acenaphthene	ND		5.0	0.20	ug/L		08/03/21 15:52	08/04/21 10:54	1
Acenaphthylene	ND		5.0	0.22	ug/L		08/03/21 15:52	08/04/21 10:54	1
Anthracene	ND		5.0	0.35	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzidine	ND		80	14	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		08/03/21 15:52	08/04/21 10:54	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		08/03/21 15:52	08/04/21 10:54	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		08/03/21 15:52	08/04/21 10:54	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		08/03/21 15:52	08/04/21 10:54	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		08/03/21 15:52	08/04/21 10:54	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		08/03/21 15:52	08/04/21 10:54	1
Chrysene	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
Decane	ND		10	0.40	ug/L		08/03/21 15:52	08/04/21 10:54	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		08/03/21 15:52	08/04/21 10:54	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		08/03/21 15:52	08/04/21 10:54	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		08/03/21 15:52	08/04/21 10:54	1
Diethyl phthalate	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		08/03/21 15:52	08/04/21 10:54	1
Fluoranthene	ND		5.0	0.40	ug/L		08/03/21 15:52	08/04/21 10:54	1
Fluorene	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		08/03/21 15:52	08/04/21 10:54	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		08/03/21 15:52	08/04/21 10:54	1
Hexachloroethane	ND		5.0	0.15	ug/L		08/03/21 15:52	08/04/21 10:54	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		08/03/21 15:52	08/04/21 10:54	1
Isophorone	ND		5.0	0.19	ug/L		08/03/21 15:52	08/04/21 10:54	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		08/03/21 15:52	08/04/21 10:54	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		08/03/21 15:52	08/04/21 10:54	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		08/03/21 15:52	08/04/21 10:54	1
Naphthalene	ND		5.0	0.22	ug/L		08/03/21 15:52	08/04/21 10:54	1
Nitrobenzene	ND		5.0	0.20	ug/L		08/03/21 15:52	08/04/21 10:54	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-591557/1-A
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		10	0.79	ug/L		08/03/21 15:52	08/04/21 10:54	1
Phenanthrene	ND		5.0	0.30	ug/L		08/03/21 15:52	08/04/21 10:54	1
Phenol	ND		5.0	0.088	ug/L		08/03/21 15:52	08/04/21 10:54	1
Pyrene	ND		5.0	0.35	ug/L		08/03/21 15:52	08/04/21 10:54	1
n-Octadecane	ND		10	0.30	ug/L		08/03/21 15:52	08/04/21 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*52 - 151*	*08/03/21 15:52*	*08/04/21 10:54*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*08/03/21 15:52*	*08/04/21 10:54*	*1*
2-Fluorophenol	*45*		*17 - 120*	*08/03/21 15:52*	*08/04/21 10:54*	*1*
Nitrobenzene-d5	*81*		*15 - 314*	*08/03/21 15:52*	*08/04/21 10:54*	*1*
p-Terphenyl-d14	*99*		*22 - 125*	*08/03/21 15:52*	*08/04/21 10:54*	*1*
Phenol-d5	*31*		*8 - 424*	*08/03/21 15:52*	*08/04/21 10:54*	*1*

Lab Sample ID: LCS 480-591557/2-A
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	44 - 142
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	32 - 129
1,3-Dichlorobenzene	50.0	44.4		ug/L		89	1 - 172
1,4-Dichlorobenzene	50.0	44.6		ug/L		89	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	44.0		ug/L		88	36 - 166
2,4,6-Trichlorophenol	50.0	52.5		ug/L		105	37 - 144
2,4-Dichlorophenol	50.0	52.8		ug/L		106	39 - 135
2,4-Dimethylphenol	50.0	53.1		ug/L		106	32 - 120
2,4-Dinitrophenol	100	106		ug/L		106	1 - 191
2,4-Dinitrotoluene	50.0	55.1		ug/L		110	39 - 139
2,6-Dinitrotoluene	50.0	54.9		ug/L		110	50 - 158
2-Chloronaphthalene	50.0	49.9		ug/L		100	60 - 120
2-Chlorophenol	50.0	46.0		ug/L		92	23 - 134
2-Nitrophenol	50.0	49.9		ug/L		100	29 - 182
3,3'-Dichlorobenzidine	100	100		ug/L		100	1 - 262
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	1 - 181
4-Bromophenyl phenyl ether	50.0	55.6		ug/L		111	53 - 127
4-Chloro-3-methylphenol	50.0	53.1		ug/L		106	22 - 147
4-Chlorophenyl phenyl ether	50.0	54.9		ug/L		110	25 - 158
4-Nitrophenol	100	62.3		ug/L		62	1 - 132
Acenaphthene	50.0	51.1		ug/L		102	47 - 145
Acenaphthylene	50.0	55.5		ug/L		111	33 - 145
Anthracene	50.0	56.1		ug/L		112	27 - 133
Benzidine	100	ND		ug/L		2	1 - 120
Benzo[a]anthracene	50.0	57.0		ug/L		114	33 - 143
Benzo[a]pyrene	50.0	57.0		ug/L		114	17 - 163
Benzo[b]fluoranthene	50.0	56.6		ug/L		113	24 - 159
Benzo[g,h,i]perylene	50.0	55.6		ug/L		111	1 - 219
Benzo[k]fluoranthene	50.0	59.6		ug/L		119	11 - 162

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-591557/2-A
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	50.0	49.7		ug/L		99	33 - 184
Bis(2-chloroethyl)ether	50.0	46.2		ug/L		92	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	53.6		ug/L		107	8 - 158
Butyl benzyl phthalate	50.0	52.8		ug/L		106	1 - 152
Chrysene	50.0	56.6		ug/L		113	17 - 168
Di-n-butyl phthalate	50.0	55.8		ug/L		112	1 - 120
Di-n-octyl phthalate	50.0	53.3		ug/L		107	4 - 146
Dibenz(a,h)anthracene	50.0	59.2		ug/L		118	1 - 227
Diethyl phthalate	50.0	55.9		ug/L		112	1 - 120
Dimethyl phthalate	50.0	55.4		ug/L		111	1 - 120
Fluoranthene	50.0	56.6		ug/L		113	26 - 137
Fluorene	50.0	54.7		ug/L		109	59 - 121
Hexachlorobenzene	50.0	55.1		ug/L		110	1 - 152
Hexachlorocyclopentadiene	50.0	45.6		ug/L		91	5 - 120
Hexachloroethane	50.0	44.0		ug/L		88	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.0		ug/L		108	1 - 171
Isophorone	50.0	50.9		ug/L		102	21 - 196
N-Nitrosodi-n-propylamine	50.0	50.4		ug/L		101	1 - 230
N-Nitrosodiphenylamine	50.0	54.9		ug/L		110	54 - 125
Naphthalene	50.0	49.4		ug/L		99	21 - 133
Nitrobenzene	50.0	50.9		ug/L		102	35 - 180
Pentachlorophenol	100	95.6		ug/L		96	14 - 176
Phenanthrene	50.0	56.0		ug/L		112	54 - 120
Phenol	50.0	20.7		ug/L		41	5 - 120
Pyrene	50.0	55.9		ug/L		112	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*52 - 151*
2-Fluorobiphenyl	*103*		*44 - 120*
2-Fluorophenol	*54*		*17 - 120*
Nitrobenzene-d5	*98*		*15 - 314*
p-Terphenyl-d14	*111*		*22 - 125*
Phenol-d5	*41*		*8 - 424*

Lab Sample ID: 480-187873-5 MS
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		100	76.7		ug/L		77	44 - 142
1,2-Dichlorobenzene	ND		100	73.4		ug/L		73	32 - 129
1,3-Dichlorobenzene	ND		100	70.7		ug/L		71	1 - 172
1,4-Dichlorobenzene	ND		100	72.4		ug/L		72	20 - 124
2,2'-Oxybis(1-chloropropane)	ND		100	74.8		ug/L		75	36 - 166
2,4,6-Trichlorophenol	ND		100	91.8		ug/L		92	37 - 144
2,4-Dichlorophenol	ND		100	89.1		ug/L		89	39 - 135
2,4-Dimethylphenol	ND		100	92.2		ug/L		92	32 - 120
2,4-Dinitrophenol	ND		200	181		ug/L		90	1 - 191

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-187873-5 MS
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		100	96.1		ug/L		96	39 - 139
2,6-Dinitrotoluene	ND		100	97.2		ug/L		97	50 - 158
2-Chloronaphthalene	ND		100	84.1		ug/L		84	60 - 120
2-Chlorophenol	ND		100	79.1		ug/L		79	23 - 134
2-Nitrophenol	ND		100	85.8		ug/L		86	29 - 182
3,3'-Dichlorobenzidine	ND		200	177		ug/L		88	1 - 262
4,6-Dinitro-2-methylphenol	ND		200	200		ug/L		100	1 - 181
4-Bromophenyl phenyl ether	ND		100	95.6		ug/L		96	53 - 127
4-Chloro-3-methylphenol	ND		100	95.5		ug/L		95	22 - 147
4-Chlorophenyl phenyl ether	ND		100	92.9		ug/L		93	25 - 158
4-Nitrophenol	ND		200	102		ug/L		51	1 - 132
Acenaphthene	ND		100	87.3		ug/L		87	47 - 145
Acenaphthylene	ND		100	92.8		ug/L		93	33 - 145
Anthracene	ND		100	98.0		ug/L		98	27 - 133
Benzidine	ND	F1	200	31.3	J	ug/L		16	1 - 120
Benzo[a]anthracene	ND		100	98.4		ug/L		98	33 - 143
Benzo[a]pyrene	ND		100	99.3		ug/L		99	17 - 163
Benzo[b]fluoranthene	ND		100	96.7		ug/L		97	24 - 159
Benzo[g,h,i]perylene	ND		100	95.9		ug/L		96	1 - 219
Benzo[k]fluoranthene	ND		100	104		ug/L		104	11 - 162
Bis(2-chloroethoxy)methane	ND		100	84.8		ug/L		85	33 - 184
Bis(2-chloroethyl)ether	ND		100	81.6		ug/L		82	12 - 158
Bis(2-ethylhexyl) phthalate	ND		100	90.8		ug/L		91	8 - 158
Butyl benzyl phthalate	ND		100	89.8		ug/L		90	1 - 152
Chrysene	ND		100	98.4		ug/L		98	17 - 168
Di-n-butyl phthalate	ND		100	97.2		ug/L		97	1 - 120
Di-n-octyl phthalate	ND		100	90.0		ug/L		90	4 - 146
Dibenz(a,h)anthracene	ND		100	104		ug/L		104	1 - 227
Diethyl phthalate	ND		100	98.4		ug/L		98	1 - 120
Dimethyl phthalate	ND		100	96.8		ug/L		97	1 - 120
Fluoranthene	ND		100	98.4		ug/L		98	26 - 137
Fluorene	ND		100	93.1		ug/L		93	59 - 121
Hexachlorobenzene	ND		100	96.6		ug/L		97	1 - 152
Hexachlorocyclopentadiene	ND		100	74.7		ug/L		75	5 - 120
Hexachloroethane	ND		100	68.7		ug/L		69	40 - 120
Indeno[1,2,3-cd]pyrene	ND		100	94.4		ug/L		94	1 - 171
Isophorone	ND		100	88.1		ug/L		88	21 - 196
N-Nitrosodi-n-propylamine	ND		100	91.0		ug/L		91	1 - 230
N-Nitrosodiphenylamine	ND		100	93.0		ug/L		93	54 - 125
Naphthalene	ND		100	81.8		ug/L		82	21 - 133
Nitrobenzene	ND		100	85.3		ug/L		85	35 - 180
Pentachlorophenol	ND		200	165		ug/L		83	14 - 176
Phenanthrene	ND		100	99.0		ug/L		99	54 - 120
Phenol	11		100	33.8		ug/L		22	5 - 120
Pyrene	ND		100	96.4		ug/L		96	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*52 - 151*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-187873-5 MS
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 591557

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	85		44 - 120
2-Fluorophenol	45		17 - 120
Nitrobenzene-d5	84		15 - 314
p-Terphenyl-d14	94		22 - 125
Phenol-d5	32		8 - 424

Lab Sample ID: 480-187873-5 MSD
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		100	79.1		ug/L		79	44 - 142	3	50
1,2-Dichlorobenzene	ND		100	73.1		ug/L		73	32 - 129	0	38
1,3-Dichlorobenzene	ND		100	69.8		ug/L		70	1 - 172	1	37
1,4-Dichlorobenzene	ND		100	69.5		ug/L		69	20 - 124	4	40
2,2'-Oxybis(1-chloropropane)	ND		100	73.5		ug/L		73	36 - 166	2	76
2,4,6-Trichlorophenol	ND		100	96.5		ug/L		97	37 - 144	5	58
2,4-Dichlorophenol	ND		100	92.8		ug/L		93	39 - 135	4	50
2,4-Dimethylphenol	ND		100	93.0		ug/L		93	32 - 120	1	58
2,4-Dinitrophenol	ND		200	202		ug/L		101	1 - 191	11	132
2,4-Dinitrotoluene	ND		100	101		ug/L		101	39 - 139	5	42
2,6-Dinitrotoluene	ND		100	103		ug/L		103	50 - 158	6	48
2-Chloronaphthalene	ND		100	88.9		ug/L		89	60 - 120	6	24
2-Chlorophenol	ND		100	79.2		ug/L		79	23 - 134	0	61
2-Nitrophenol	ND		100	86.3		ug/L		86	29 - 182	1	55
3,3'-Dichlorobenzidine	ND		200	181		ug/L		90	1 - 262	2	108
4,6-Dinitro-2-methylphenol	ND		200	208		ug/L		104	1 - 181	4	203
4-Bromophenyl phenyl ether	ND		100	98.7		ug/L		99	53 - 127	3	43
4-Chloro-3-methylphenol	ND		100	98.3		ug/L		98	22 - 147	3	73
4-Chlorophenyl phenyl ether	ND		100	97.6		ug/L		98	25 - 158	5	61
4-Nitrophenol	ND		200	114		ug/L		57	1 - 132	11	131
Acenaphthene	ND		100	90.1		ug/L		90	47 - 145	3	48
Acenaphthylene	ND		100	97.7		ug/L		98	33 - 145	5	74
Anthracene	ND		100	101		ug/L		101	27 - 133	3	66
Benzidine	ND	F1	200	ND	F1	ug/L		0	1 - 120	NC	50
Benzo[a]anthracene	ND		100	103		ug/L		103	33 - 143	5	53
Benzo[a]pyrene	ND		100	104		ug/L		104	17 - 163	5	72
Benzo[b]fluoranthene	ND		100	107		ug/L		107	24 - 159	10	71
Benzo[g,h,i]perylene	ND		100	101		ug/L		101	1 - 219	5	97
Benzo[k]fluoranthene	ND		100	104		ug/L		104	11 - 162	0	63
Bis(2-chloroethoxy)methane	ND		100	87.4		ug/L		87	33 - 184	3	54
Bis(2-chloroethyl)ether	ND		100	81.9		ug/L		82	12 - 158	0	108
Bis(2-ethylhexyl) phthalate	ND		100	94.8		ug/L		95	8 - 158	4	82
Butyl benzyl phthalate	ND		100	96.3		ug/L		96	1 - 152	7	60
Chrysene	ND		100	102		ug/L		102	17 - 168	3	87
Di-n-butyl phthalate	ND		100	101		ug/L		101	1 - 120	4	47
Di-n-octyl phthalate	ND		100	95.0		ug/L		95	4 - 146	5	69
Dibenz(a,h)anthracene	ND		100	109		ug/L		109	1 - 227	5	126

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-187873-5 MSD
Matrix: Water
Analysis Batch: 591631

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 591557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate	ND		100	103		ug/L		103	1 - 120	5	100
Dimethyl phthalate	ND		100	102		ug/L		102	1 - 120	5	183
Fluoranthene	ND		100	102		ug/L		102	26 - 137	3	66
Fluorene	ND		100	98.8		ug/L		99	59 - 121	6	38
Hexachlorobenzene	ND		100	99.4		ug/L		99	1 - 152	3	55
Hexachlorocyclopentadiene	ND		100	79.0		ug/L		79	5 - 120	6	50
Hexachloroethane	ND		100	68.6		ug/L		69	40 - 120	0	52
Indeno[1,2,3-cd]pyrene	ND		100	98.0		ug/L		98	1 - 171	4	99
Isophorone	ND		100	90.5		ug/L		90	21 - 196	3	93
N-Nitrosodi-n-propylamine	ND		100	90.8		ug/L		91	1 - 230	0	87
N-Nitrosodiphenylamine	ND		100	96.5		ug/L		96	54 - 125	4	15
Naphthalene	ND		100	83.1		ug/L		83	21 - 133	2	65
Nitrobenzene	ND		100	85.8		ug/L		86	35 - 180	1	62
Pentachlorophenol	ND		200	171		ug/L		85	14 - 176	3	86
Phenanthrene	ND		100	102		ug/L		102	54 - 120	3	39
Phenol	11		100	40.6		ug/L		29	5 - 120	18	64
Pyrene	ND		100	100		ug/L		100	52 - 120	4	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*52 - 151*
2-Fluorobiphenyl	*91*		*44 - 120*
2-Fluorophenol	*48*		*17 - 120*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*100*		*22 - 125*
Phenol-d5	*36*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-591936/1-A
Matrix: Water
Analysis Batch: 592293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00150	J	0.010	0.0015	mg/L		08/06/21 08:15	08/09/21 15:52	1

Lab Sample ID: LCS 480-591936/2-A
Matrix: Water
Analysis Batch: 592293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.204		mg/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-592032/1-A
Matrix: Water
Analysis Batch: 592088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/06/21 12:50	08/06/21 15:38	1

Lab Sample ID: LCS 480-592032/2-A
Matrix: Water
Analysis Batch: 592088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00723		mg/L		108	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-591893/1-A
Matrix: Water
Analysis Batch: 591962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		08/05/21 13:11	08/05/21 17:15	1

Lab Sample ID: LCS 480-591893/2-A
Matrix: Water
Analysis Batch: 591962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.251		mg/L		100	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-592052/23
Matrix: Water
Analysis Batch: 592052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 794600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	624.1	
MB 460-794600/9	Method Blank	Total/NA	Water	624.1	
LCS 460-794600/4	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 591557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	625	
MB 480-591557/1-A	Method Blank	Total/NA	Water	625	
LCS 480-591557/2-A	Lab Control Sample	Total/NA	Water	625	
480-187873-5 MS	Composite 001-1 to -4	Total/NA	Water	625	
480-187873-5 MSD	Composite 001-1 to -4	Total/NA	Water	625	

Analysis Batch: 591631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	625.1	591557
MB 480-591557/1-A	Method Blank	Total/NA	Water	625.1	591557
LCS 480-591557/2-A	Lab Control Sample	Total/NA	Water	625.1	591557
480-187873-5 MS	Composite 001-1 to -4	Total/NA	Water	625.1	591557
480-187873-5 MSD	Composite 001-1 to -4	Total/NA	Water	625.1	591557

Metals

Prep Batch: 591936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	200.7	
MB 480-591936/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-591936/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 592032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	245.1	
MB 480-592032/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-592032/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 592088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	245.1	592032
MB 480-592032/1-A	Method Blank	Total/NA	Water	245.1	592032
LCS 480-592032/2-A	Lab Control Sample	Total/NA	Water	245.1	592032

Analysis Batch: 592293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	591936
MB 480-591936/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	591936
LCS 480-591936/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	591936

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Prep Batch: 591893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	Distill/CN	
MB 480-591893/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-591893/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 591962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	335.4	591893
MB 480-591893/1-A	Method Blank	Total/NA	Water	335.4	591893
LCS 480-591893/2-A	Lab Control Sample	Total/NA	Water	335.4	591893

Analysis Batch: 592052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187873-5	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	
LCS 480-592052/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-187873-5

Date Collected: 08/02/21 13:55
Matrix: Water

Date Received: 08/02/21 14:17

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	794600	08/05/21 13:58	CJM	TAL EDI
Total/NA	Prep	625			591557	08/03/21 15:52	CMC	TAL BUF
Total/NA	Analysis	625.1		1	591631	08/04/21 12:31	JMM	TAL BUF
Total/NA	Prep	200.7			591936	08/06/21 08:15	KMP	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	592293	08/09/21 16:40	AMH	TAL BUF
Total/NA	Prep	245.1			592032	08/06/21 12:50	BMB	TAL BUF
Total/NA	Analysis	245.1		1	592088	08/06/21 16:01	BMB	TAL BUF
Total/NA	Prep	Distill/CN			591893	08/05/21 13:11	JPS	TAL BUF
Total/NA	Analysis	335.4		1	591962	08/05/21 17:43	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	592052	08/06/21 13:33	JPS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-187873-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-187873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187873-5	Composite 001-1 to -4	Water	08/02/21 13:55	08/02/21 14:17

Eurofins TestAmerica, Buffalo
10 Hazelrive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-163854-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 1605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

Analysis Requested

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	8/2/21	0755	G	Water									Lab To Composite Samples
001-2		0955	G	W									
001-3		1155	G	W									
001-4		1355	G	W									
Trip Blank	—	—	—	W									Short Hold Time

480-187873 Chain of Custody

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:

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: Dan Gutkowski	Date/Time: 8/2/21 1417	Company: Arcadis	Received by:	Date/Time: 8/2/21 1417	Company: TAB
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.:

Cooler Temperature(s) °C and Other Remarks: 2.6 ICE

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-65595.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-187873-1
Address: 777 New Durham Road,	Due Date Requested: 8/15/2021			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Iroquois Gas/Westwood Pharm.	Project #: 48011056			
Site:	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 - 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)	Composite	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
001-1 (480-187873-1)	8/2/21	07:55 Eastern		Water			X	2	
001-2 (480-187873-2)	8/2/21	09:55 Eastern		Water			X	2	
001-3 (480-187873-3)	8/2/21	11:55 Eastern		Water			X	2	
001-4 (480-187873-4)	8/2/21	13:55 Eastern		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
1	Unknown Courier	8/4/21 1700	TA	via Fedex	8/5/21 9:45	ETA
2	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: 1513421

Cooler Temperature(s) °C and Other Remarks: ID#9-3.6=3.1

Ver: 06/08/2021

8/16/2021

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-187873-1

Login Number: 187873
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	lab to composite
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-187873-1

Login Number: 187873
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison
List Creation: 08/05/21 11:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1513421
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	3.1°C IR9
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.	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.	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	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-189010-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
9/10/2021 5:58:29 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-189010-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-189010-1

Comments
No additional comments.

Receipt
The samples were received on 9/1/2021 1:23 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.6º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 9/2/21 as requested by the client: Composite 001-1 to -4 (480-189010-5). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

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

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

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Composite 001-1 to -4 (480-189010-5).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 09-2-2021 as requested on the chain-of-custody: Composite 001-1 to -4 (480-189010-5).

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
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-189010-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.61	J	5.0	0.60	ug/L	1		624.1	Total/NA
Methylene Chloride	1.1	J	5.0	0.81	ug/L	1		624.1	Total/NA
Cyanide, Total	0.15		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-189010-5
Date Collected: 09/01/21 13:05
Matrix: Water
Date Received: 09/01/21 13:23

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/02/21 16:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/02/21 16:41	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/02/21 16:41	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/02/21 16:41	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/02/21 16:41	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/02/21 16:41	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/02/21 16:41	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/02/21 16:41	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/02/21 16:41	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/02/21 16:41	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/02/21 16:41	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/02/21 16:41	1
Acrolein	ND		100	17	ug/L			09/02/21 16:41	1
Acrylonitrile	ND		50	1.9	ug/L			09/02/21 16:41	1
Benzene	**0.61**	**J**	5.0	0.60	ug/L			09/02/21 16:41	1
Bromoform	ND		5.0	0.47	ug/L			09/02/21 16:41	1
Bromomethane	ND		5.0	1.2	ug/L			09/02/21 16:41	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/02/21 16:41	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/02/21 16:41	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/02/21 16:41	1
Chloroethane	ND		5.0	0.87	ug/L			09/02/21 16:41	1
Chloroform	ND		5.0	0.54	ug/L			09/02/21 16:41	1
Chloromethane	ND		5.0	0.64	ug/L			09/02/21 16:41	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/02/21 16:41	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/02/21 16:41	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/02/21 16:41	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/02/21 16:41	1
Methylene Chloride	**1.1**	**J**	5.0	0.81	ug/L			09/02/21 16:41	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/02/21 16:41	1
Toluene	ND		5.0	0.45	ug/L			09/02/21 16:41	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/02/21 16:41	1
Trichloroethene	ND		5.0	0.60	ug/L			09/02/21 16:41	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/02/21 16:41	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/02/21 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*09/02/21 16:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*09/02/21 16:41*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*09/02/21 16:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/02/21 16:41*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		09/03/21 15:28	09/07/21 17:49	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		09/03/21 15:28	09/07/21 17:49	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		09/03/21 15:28	09/07/21 17:49	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		09/03/21 15:28	09/07/21 17:49	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-189010-5
Date Collected: 09/01/21 13:05
Matrix: Water
Date Received: 09/01/21 13:23

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		09/03/21 15:28	09/07/21 17:49	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 17:49	1
2-Chlorophenol	ND		5.0	0.17	ug/L		09/03/21 15:28	09/07/21 17:49	1
2-Nitrophenol	ND		5.0	0.18	ug/L		09/03/21 15:28	09/07/21 17:49	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 17:49	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		09/03/21 15:28	09/07/21 17:49	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 17:49	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 17:49	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 17:49	1
4-Nitrophenol	ND		15	0.49	ug/L		09/03/21 15:28	09/07/21 17:49	1
Acenaphthene	ND		5.0	0.20	ug/L		09/03/21 15:28	09/07/21 17:49	1
Acenaphthylene	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 17:49	1
Anthracene	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzidine	ND		80	14	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 17:49	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 17:49	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 17:49	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 17:49	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		09/03/21 15:28	09/07/21 17:49	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 17:49	1
Chrysene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
Decane	ND		10	0.40	ug/L		09/03/21 15:28	09/07/21 17:49	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 17:49	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 17:49	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 17:49	1
Diethyl phthalate	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 17:49	1
Fluoranthene	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 17:49	1
Fluorene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 17:49	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		09/03/21 15:28	09/07/21 17:49	1
Hexachloroethane	ND		5.0	0.15	ug/L		09/03/21 15:28	09/07/21 17:49	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 17:49	1
Isophorone	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 17:49	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 17:49	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		09/03/21 15:28	09/07/21 17:49	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		09/03/21 15:28	09/07/21 17:49	1
Naphthalene	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 17:49	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/03/21 15:28	09/07/21 17:49	1
Pentachlorophenol	ND		10	0.79	ug/L		09/03/21 15:28	09/07/21 17:49	1
Phenanthrene	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 17:49	1

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-189010-5
Date Collected: 09/01/21 13:05
Matrix: Water
Date Received: 09/01/21 13:23

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		09/03/21 15:28	09/07/21 17:49	1
Pyrene	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 17:49	1
n-Octadecane	ND		10	0.30	ug/L		09/03/21 15:28	09/07/21 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*52 - 151*	*09/03/21 15:28*	*09/07/21 17:49*	*1*
2-Fluorobiphenyl	*88*		*44 - 120*	*09/03/21 15:28*	*09/07/21 17:49*	*1*
2-Fluorophenol	*46*		*17 - 120*	*09/03/21 15:28*	*09/07/21 17:49*	*1*
Nitrobenzene-d5	*79*		*15 - 314*	*09/03/21 15:28*	*09/07/21 17:49*	*1*
p-Terphenyl-d14	*92*		*22 - 125*	*09/03/21 15:28*	*09/07/21 17:49*	*1*
Phenol-d5	*31*		*8 - 424*	*09/03/21 15:28*	*09/07/21 17:49*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		09/07/21 10:25	09/09/21 17:08	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/03/21 13:35	09/03/21 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.15**		0.010	0.0050	mg/L		09/02/21 09:45	09/02/21 17:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**	0.1	0.1	SU			09/02/21 14:01	1
Temperature	**19.6**	**HF**	0.001	0.001	Degrees C			09/02/21 14:01	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-189010-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-189010-5	Composite 001-1 to -4	101	101	103	103
LCS 480-595115/5	Lab Control Sample	97	100	102	101
MB 480-595115/7	Method Blank	101	99	102	104

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-189010-5	Composite 001-1 to -4	85	88	46	79	92	31
LCS 480-595288/2-A	Lab Control Sample	113	96	48	84	113	34
MB 480-595288/1-A	Method Blank	92	90	51	83	107	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-595115/7
Matrix: Water
Analysis Batch: 595115

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/02/21 15:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/02/21 15:34	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/02/21 15:34	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/02/21 15:34	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/02/21 15:34	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/02/21 15:34	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/02/21 15:34	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/02/21 15:34	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/02/21 15:34	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/02/21 15:34	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/02/21 15:34	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/02/21 15:34	1
Acrolein	ND		100	17	ug/L			09/02/21 15:34	1
Acrylonitrile	ND		50	1.9	ug/L			09/02/21 15:34	1
Benzene	ND		5.0	0.60	ug/L			09/02/21 15:34	1
Bromoform	ND		5.0	0.47	ug/L			09/02/21 15:34	1
Bromomethane	ND		5.0	1.2	ug/L			09/02/21 15:34	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/02/21 15:34	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/02/21 15:34	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/02/21 15:34	1
Chloroethane	ND		5.0	0.87	ug/L			09/02/21 15:34	1
Chloroform	ND		5.0	0.54	ug/L			09/02/21 15:34	1
Chloromethane	ND		5.0	0.64	ug/L			09/02/21 15:34	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/02/21 15:34	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/02/21 15:34	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/02/21 15:34	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/02/21 15:34	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/02/21 15:34	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/02/21 15:34	1
Toluene	ND		5.0	0.45	ug/L			09/02/21 15:34	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/02/21 15:34	1
Trichloroethene	ND		5.0	0.60	ug/L			09/02/21 15:34	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/02/21 15:34	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/02/21 15:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*09/02/21 15:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*09/02/21 15:34*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*09/02/21 15:34*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*09/02/21 15:34*	*1*

Lab Sample ID: LCS 480-595115/5
Matrix: Water
Analysis Batch: 595115

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.7		ug/L		109	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-595115/5
Matrix: Water
Analysis Batch: 595115

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	52 - 150
1,1-Dichloroethane	20.0	20.9		ug/L		104	59 - 155
1,1-Dichloroethene	20.0	20.2		ug/L		101	1 - 234
1,2-Dichlorobenzene	20.0	21.5		ug/L		108	18 - 190
1,2-Dichloroethane	20.0	20.8		ug/L		104	49 - 155
1,2-Dichloropropane	20.0	21.1		ug/L		106	1 - 210
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	59 - 156
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
2-Chloroethyl vinyl ether	20.0	20.4	J	ug/L		102	1 - 305
Benzene	20.0	20.8		ug/L		104	37 - 151
Bromoform	20.0	24.4		ug/L		122	45 - 169
Bromomethane	20.0	19.8		ug/L		99	1 - 242
Carbon tetrachloride	20.0	21.8		ug/L		109	70 - 140
Chlorobenzene	20.0	20.8		ug/L		104	37 - 160
Dibromochloromethane	20.0	22.9		ug/L		114	53 - 149
Chloroethane	20.0	19.8		ug/L		99	14 - 230
Chloroform	20.0	20.6		ug/L		103	51 - 138
Chloromethane	20.0	19.5		ug/L		97	1 - 273
cis-1,3-Dichloropropene	20.0	20.7		ug/L		104	1 - 227
Bromodichloromethane	20.0	21.2		ug/L		106	35 - 155
Ethylbenzene	20.0	21.1		ug/L		106	37 - 162
Methylene Chloride	20.0	14.2		ug/L		71	1 - 221
Tetrachloroethene	20.0	20.4		ug/L		102	64 - 148
Toluene	20.0	21.0		ug/L		105	47 - 150
trans-1,3-Dichloropropene	20.0	20.7		ug/L		103	17 - 183
Trichloroethene	20.0	19.7		ug/L		98	71 - 157
Trichlorofluoromethane	20.0	18.7		ug/L		94	17 - 181
Vinyl chloride	20.0	19.4		ug/L		97	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-595288/1-A
Matrix: Water
Analysis Batch: 595440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		09/03/21 15:28	09/07/21 15:51	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		09/03/21 15:28	09/07/21 15:51	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		09/03/21 15:28	09/07/21 15:51	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		09/03/21 15:28	09/07/21 15:51	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-595288/1-A
Matrix: Water
Analysis Batch: 595440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		09/03/21 15:28	09/07/21 15:51	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 15:51	1
2-Chlorophenol	ND		5.0	0.17	ug/L		09/03/21 15:28	09/07/21 15:51	1
2-Nitrophenol	ND		5.0	0.18	ug/L		09/03/21 15:28	09/07/21 15:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 15:51	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		09/03/21 15:28	09/07/21 15:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 15:51	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 15:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 15:51	1
4-Nitrophenol	ND		15	0.49	ug/L		09/03/21 15:28	09/07/21 15:51	1
Acenaphthene	ND		5.0	0.20	ug/L		09/03/21 15:28	09/07/21 15:51	1
Acenaphthylene	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 15:51	1
Anthracene	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzidine	ND		80	14	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 15:51	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		09/03/21 15:28	09/07/21 15:51	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 15:51	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 15:51	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		09/03/21 15:28	09/07/21 15:51	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		09/03/21 15:28	09/07/21 15:51	1
Chrysene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
Decane	ND		10	0.40	ug/L		09/03/21 15:28	09/07/21 15:51	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 15:51	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 15:51	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 15:51	1
Diethyl phthalate	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		09/03/21 15:28	09/07/21 15:51	1
Fluoranthene	ND		5.0	0.40	ug/L		09/03/21 15:28	09/07/21 15:51	1
Fluorene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		09/03/21 15:28	09/07/21 15:51	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		09/03/21 15:28	09/07/21 15:51	1
Hexachloroethane	ND		5.0	0.15	ug/L		09/03/21 15:28	09/07/21 15:51	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		09/03/21 15:28	09/07/21 15:51	1
Isophorone	ND		5.0	0.19	ug/L		09/03/21 15:28	09/07/21 15:51	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 15:51	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		09/03/21 15:28	09/07/21 15:51	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		09/03/21 15:28	09/07/21 15:51	1
Naphthalene	ND		5.0	0.22	ug/L		09/03/21 15:28	09/07/21 15:51	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/03/21 15:28	09/07/21 15:51	1
Pentachlorophenol	ND		10	0.79	ug/L		09/03/21 15:28	09/07/21 15:51	1
Phenanthrene	ND		5.0	0.30	ug/L		09/03/21 15:28	09/07/21 15:51	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-595288/1-A
Matrix: Water
Analysis Batch: 595440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		09/03/21 15:28	09/07/21 15:51	1
Pyrene	ND		5.0	0.35	ug/L		09/03/21 15:28	09/07/21 15:51	1
n-Octadecane	ND		10	0.30	ug/L		09/03/21 15:28	09/07/21 15:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*52 - 151*	*09/03/21 15:28*	*09/07/21 15:51*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*09/03/21 15:28*	*09/07/21 15:51*	*1*
2-Fluorophenol	*51*		*17 - 120*	*09/03/21 15:28*	*09/07/21 15:51*	*1*
Nitrobenzene-d5	*83*		*15 - 314*	*09/03/21 15:28*	*09/07/21 15:51*	*1*
p-Terphenyl-d14	*107*		*22 - 125*	*09/03/21 15:28*	*09/07/21 15:51*	*1*
Phenol-d5	*35*		*8 - 424*	*09/03/21 15:28*	*09/07/21 15:51*	*1*

Lab Sample ID: LCS 480-595288/2-A
Matrix: Water
Analysis Batch: 595440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	42.5		ug/L		85	44 - 142
1,2-Dichlorobenzene	50.0	40.8		ug/L		82	32 - 129
1,3-Dichlorobenzene	50.0	39.0		ug/L		78	1 - 172
1,4-Dichlorobenzene	50.0	39.0		ug/L		78	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	34.2		ug/L		68	36 - 166
2,4,6-Trichlorophenol	50.0	52.6		ug/L		105	37 - 144
2,4-Dichlorophenol	50.0	49.7		ug/L		99	39 - 135
2,4-Dimethylphenol	50.0	46.2		ug/L		92	32 - 120
2,4-Dinitrophenol	100	120		ug/L		120	1 - 191
2,4-Dinitrotoluene	50.0	57.8		ug/L		116	39 - 139
2,6-Dinitrotoluene	50.0	57.2		ug/L		114	50 - 158
2-Chloronaphthalene	50.0	49.1		ug/L		98	60 - 120
2-Chlorophenol	50.0	42.9		ug/L		86	23 - 134
2-Nitrophenol	50.0	48.0		ug/L		96	29 - 182
3,3'-Dichlorobenzidine	100	115		ug/L		115	1 - 262
4,6-Dinitro-2-methylphenol	100	108		ug/L		108	1 - 181
4-Bromophenyl phenyl ether	50.0	53.9		ug/L		108	53 - 127
4-Chloro-3-methylphenol	50.0	51.2		ug/L		102	22 - 147
4-Chlorophenyl phenyl ether	50.0	54.0		ug/L		108	25 - 158
4-Nitrophenol	100	44.6		ug/L		45	1 - 132
Acenaphthene	50.0	49.7		ug/L		99	47 - 145
Acenaphthylene	50.0	54.0		ug/L		108	33 - 145
Anthracene	50.0	55.2		ug/L		110	27 - 133
Benzidine	100	ND		ug/L		5	1 - 120
Benzo[a]anthracene	50.0	56.1		ug/L		112	33 - 143
Benzo[a]pyrene	50.0	55.7		ug/L		111	17 - 163
Benzo[b]fluoranthene	50.0	56.1		ug/L		112	24 - 159
Benzo[g,h,i]perylene	50.0	57.1		ug/L		114	1 - 219
Benzo[k]fluoranthene	50.0	57.0		ug/L		114	11 - 162
Bis(2-chloroethoxy)methane	50.0	42.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	42.1		ug/L		84	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-595288/2-A
Matrix: Water
Analysis Batch: 595440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	54.2		ug/L		108	8 - 158
Butyl benzyl phthalate	50.0	53.7		ug/L		107	1 - 152
Chrysene	50.0	56.8		ug/L		114	17 - 168
Di-n-butyl phthalate	50.0	56.8		ug/L		114	1 - 120
Di-n-octyl phthalate	50.0	55.0		ug/L		110	4 - 146
Dibenz(a,h)anthracene	50.0	59.1		ug/L		118	1 - 227
Diethyl phthalate	50.0	55.8		ug/L		112	1 - 120
Dimethyl phthalate	50.0	55.6		ug/L		111	1 - 120
Fluoranthene	50.0	56.6		ug/L		113	26 - 137
Fluorene	50.0	54.3		ug/L		109	59 - 121
Hexachlorobenzene	50.0	54.7		ug/L		109	1 - 152
Hexachlorocyclopentadiene	50.0	36.8		ug/L		74	5 - 120
Hexachloroethane	50.0	34.8		ug/L		70	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	56.5		ug/L		113	1 - 171
Isophorone	50.0	46.7		ug/L		93	21 - 196
N-Nitrosodi-n-propylamine	50.0	44.5		ug/L		89	1 - 230
N-Nitrosodiphenylamine	50.0	54.1		ug/L		108	54 - 125
Naphthalene	50.0	44.9		ug/L		90	21 - 133
Nitrobenzene	50.0	41.7		ug/L		83	35 - 180
Pentachlorophenol	100	102		ug/L		102	14 - 176
Phenanthrene	50.0	53.0		ug/L		106	54 - 120
Phenol	50.0	18.8		ug/L		38	5 - 120
Pyrene	50.0	55.3		ug/L		111	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*113*		*52 - 151*
2-Fluorobiphenyl	*96*		*44 - 120*
2-Fluorophenol	*48*		*17 - 120*
Nitrobenzene-d5	*84*		*15 - 314*
p-Terphenyl-d14	*113*		*22 - 125*
Phenol-d5	*34*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-595355/1-A
Matrix: Water
Analysis Batch: 595890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		09/07/21 10:25	09/09/21 16:38	1

Lab Sample ID: LCS 480-595355/2-A
Matrix: Water
Analysis Batch: 595890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.206		mg/L		103	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-595268/1-A
Matrix: Water
Analysis Batch: 595301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/03/21 13:35	09/03/21 16:52	1

Lab Sample ID: LCS 480-595268/2-A
Matrix: Water
Analysis Batch: 595301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00690		mg/L		103	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-595095/1-A
Matrix: Water
Analysis Batch: 595173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 595095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/02/21 09:45	09/02/21 16:41	1

Lab Sample ID: LCS 480-595095/2-A
Matrix: Water
Analysis Batch: 595173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.390		mg/L		98	90 - 110

Lab Sample ID: LCS 480-595095/3-A
Matrix: Water
Analysis Batch: 595173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 595095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-595140/23
Matrix: Water
Analysis Batch: 595140

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 480-189010-5 DU
Matrix: Water
Analysis Batch: 595140

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.1	HF	7.2		SU		1	5
Temperature	19.6	HF	19.6		Degrees C		0	10

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 595115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	624.1	
MB 480-595115/7	Method Blank	Total/NA	Water	624.1	
LCS 480-595115/5	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 595288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	625	
MB 480-595288/1-A	Method Blank	Total/NA	Water	625	
LCS 480-595288/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 595440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	625.1	595288
MB 480-595288/1-A	Method Blank	Total/NA	Water	625.1	595288
LCS 480-595288/2-A	Lab Control Sample	Total/NA	Water	625.1	595288

Metals

Prep Batch: 595268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	245.1	
MB 480-595268/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-595268/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 595301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	245.1	595268
MB 480-595268/1-A	Method Blank	Total/NA	Water	245.1	595268
LCS 480-595268/2-A	Lab Control Sample	Total/NA	Water	245.1	595268

Prep Batch: 595355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	200.7	
MB 480-595355/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-595355/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 595890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	595355
MB 480-595355/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	595355
LCS 480-595355/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	595355

General Chemistry

Prep Batch: 595095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	Distill/CN	
MB 480-595095/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-595095/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-595095/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Analysis Batch: 595140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	
LCS 480-595140/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-189010-5 DU	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 595173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189010-5	Composite 001-1 to -4	Total/NA	Water	335.4	595095
MB 480-595095/1-A	Method Blank	Total/NA	Water	335.4	595095
LCS 480-595095/2-A	Lab Control Sample	Total/NA	Water	335.4	595095
LCS 480-595095/3-A	Lab Control Sample	Total/NA	Water	335.4	595095

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4

Lab Sample ID: 480-189010-5

Date Collected: 09/01/21 13:05

Matrix: Water

Date Received: 09/01/21 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	595115	09/02/21 16:41	ATG	TAL BUF
Total/NA	Prep	625			595288	09/03/21 15:28	CMC	TAL BUF
Total/NA	Analysis	625.1		1	595440	09/07/21 17:49	PJQ	TAL BUF
Total/NA	Prep	200.7			595355	09/07/21 10:25	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	595890	09/09/21 17:08	AMH	TAL BUF
Total/NA	Prep	245.1			595268	09/03/21 13:35	BMB	TAL BUF
Total/NA	Analysis	245.1		1	595301	09/03/21 17:14	BMB	TAL BUF
Total/NA	Prep	Distill/CN			595095	09/02/21 09:45	JPS	TAL BUF
Total/NA	Analysis	335.4		1	595173	09/02/21 17:10	ALT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	595140	09/02/21 14:01	JPS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-189010-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189010-5	Composite 001-1 to -4	Water	09/01/21 13:05	09/01/21 13:23

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-163855-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St. Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: \ Yes \ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2
D - Nitric Acid P - Na2O4S

480-189010 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number o	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	9/1/21	0705	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2		0905	G				X	X	X	X	X		
001-3		1105	G				X	X	X	X	X		
001-4		1305	G				X	X	X	X	X		
	—	—	—								X		Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Dan Mutrie	Date/Time: 9/1/21 / 1323	Company: Arcadis	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: \ Yes \ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
		Date/Time: 9/1/21 1323 Company: DDS
		Cooler #1 ICE

Ver: 06/08/2021

9/10/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-189010-1

Login Number: 189010
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	Yes: Received same day of collection; chilling process has begun
Cooler Temperature is recorded.	True	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: December 30, 2021
Our Ref: 30082116
Subject: **Discharge Monitoring Report – Fourth Quarter 2021**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this fourth quarter 2021 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period October 1 through December 31, 2021. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 108,509 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 9/27/2021 to 12/27/2021). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the fourth quarter 2021.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the October, November, and December monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

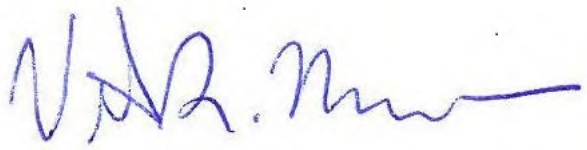
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In October, November and December 2021, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
December 30, 2021

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

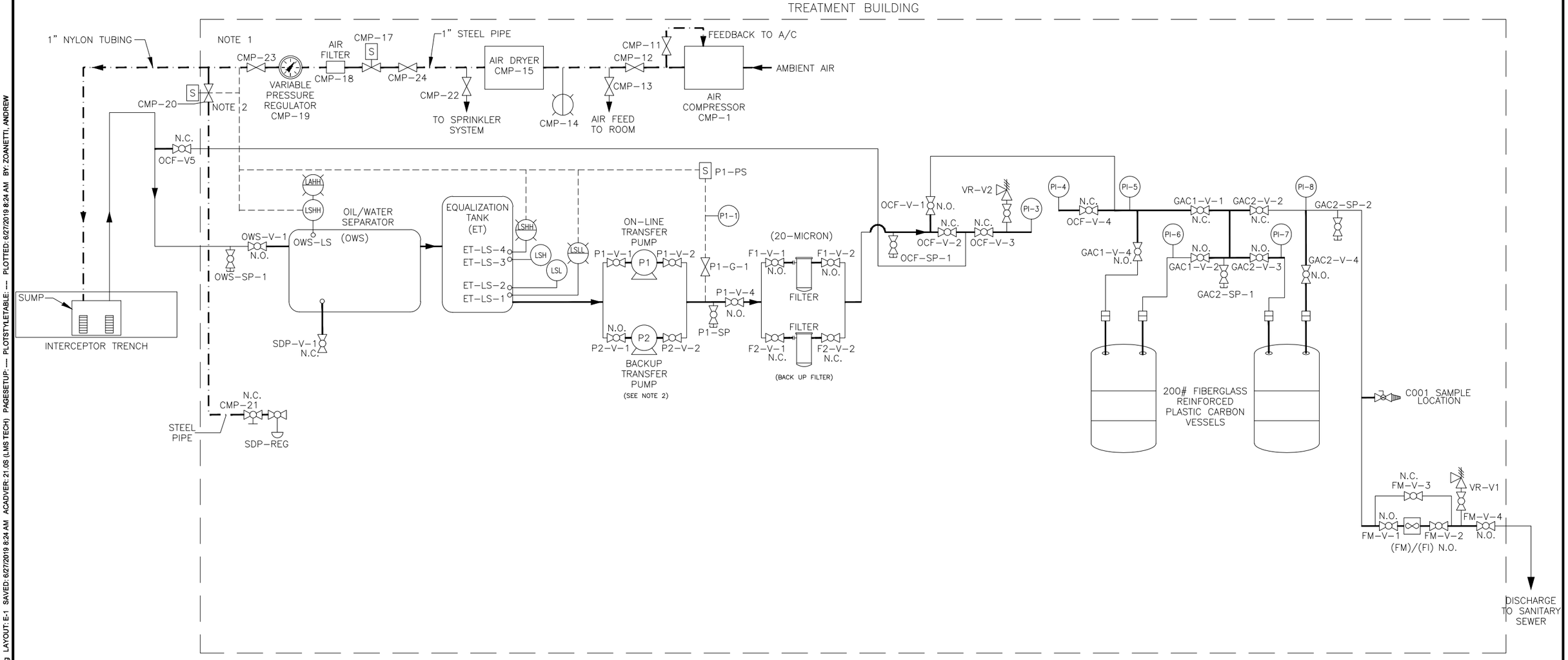
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

A Process Flow Diagram
B Sample Collection and Log Sheets for Monthly Sampling Events
C Quarterly Analytical Data Table
D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	10/4/21	→	→	→	JT6
Sample Time	0710	0910	1110	1316	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	64°F Rain	64°F Rain	66°F Overcast	68°F Overcast	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski 10/4/21

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	11/8/21	→	→	→	JT6
Sample Time	0715	0915	1115	1315	
Sample Observations	Clear	→	→	→	
pH Measurement	N/A	→	→	→	
Weather	47°F Sunny	53°F Sunny	57°F Sunny	60°F Sunny	
Comments	None	→	→	→	

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski — 11/8/21

Sample Technician — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-8U174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	12/1/21	→	→	→	JTG
Sample Time	0710	0910	1110	1310	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	37°F Cloudy	37°F Cloudy	40°F Cloudy	43°F Cloudy	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Sutkowski 12/1/21

Sample Technician Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	9/27/2021	10/4/2021	10/13/2021	10/18/2021	10/25/2021	11/5/2021	11/10/2021
Totalizer	gal	NA	607,836	616,081	627,628	633,520	640,965	655,075	660,686
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	1.96E-05 J B	NS	NS	NS	3.46E-05 J B	NS
Total Cyanide	lbs	7.93**	NS	1.28E-03	NS	NS	NS	ND	NS
Total VOCs	mg/L	NA	NS	0.0014 J	NS	NS	NS	ND *+	NS
Total SVOCs	mg/L	NA	NS	ND *1	NS	NS	NS	ND *1	NS
pH	SU	5.0-12.0	NS	8.3 HF	NS	NS	NS	7.3 HF	NS
Total Daily Flow	gal	14,400	-	1,178	1,283	1,178	1,064	1,283	1,122

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	11/15/2021	11/22/2021	12/1/2021	12/8/2021	12/13/2021	12/20/2021	12/27/2021
Totalizer	gal	NA	666,470	674,775	684,962	693,230	698,998	706,340	716,345
Total Mercury	lbs	0.00001**	NS	NS	ND	NS	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	1.41E-05 J B	NS	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	ND	NS	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	ND *+	NS	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	ND	NS	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	7.1 HF	NS	NS	NS	NS
Total Daily Flow	gal	14,400	1,157	1,186	1,132	1,181	1,154	1,049	1,429

Notes:

B - Compound was found in the blank and the sample.
HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*1 - LCS/LCSD RPD exceeds control limits.
*+ - LCS and/or LCSD is outside acceptance limits, high biased.
NS - Not Sampled
ND - Not Detected at the reporting limit
gal - Gallons
NA - Not Applicable
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.
*** - The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.
Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190425-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
10/15/2021 4:28:10 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

Metals

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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-190425-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-190425-1

Comments
No additional comments.

Receipt
The samples were received on 10/4/2021 1:37 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 10/5/21 as requested by the client: Composite 001-1 to -4 (480-190425-5).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-599050 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Composite 001-1 to -4 (480-190425-5) and TRIP BLANK (480-190425-6).

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-599301 and analytical batch 480-600064 recovered outside control limits for multiple analytes.

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
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Composite 001-1 to -4 (480-190425-5).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 10/06/2021 as requested on the chain-of-custody: Composite 001-1 to -4 (480-190425-5).

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
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-190425-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4	J	5.0	0.60	ug/L	1		624.1	Total/NA
Zinc	0.0020	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Cyanide, Total	0.13		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	8.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.5	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-190425-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.3	J	5.0	0.81	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-190425-5

Date Collected: 10/04/21 13:10
Matrix: Water
Date Received: 10/05/21 10:35

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/21 15:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/21 15:22	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/21 15:22	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/21 15:22	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/21 15:22	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/21 15:22	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/21 15:22	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/21 15:22	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/21 15:22	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/21 15:22	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/21 15:22	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/21 15:22	1
Acrolein	ND		100	17	ug/L			10/05/21 15:22	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/21 15:22	1
Benzene	**1.4**	**J**	5.0	0.60	ug/L			10/05/21 15:22	1
Bromoform	ND		5.0	0.47	ug/L			10/05/21 15:22	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/21 15:22	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/21 15:22	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/21 15:22	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/21 15:22	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/21 15:22	1
Chloroform	ND		5.0	0.54	ug/L			10/05/21 15:22	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/21 15:22	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/21 15:22	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/21 15:22	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/21 15:22	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/21 15:22	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/21 15:22	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/21 15:22	1
Toluene	ND		5.0	0.45	ug/L			10/05/21 15:22	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/21 15:22	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/21 15:22	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/21 15:22	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*10/05/21 15:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*10/05/21 15:22*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*10/05/21 15:22*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/05/21 15:22*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		10/06/21 14:26	10/12/21 16:40	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		10/06/21 14:26	10/12/21 16:40	1
1,2-Diphenylhydrazine	ND	*1	10	0.20	ug/L		10/06/21 14:26	10/12/21 16:40	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		10/06/21 14:26	10/12/21 16:40	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-190425-1

Client Sample ID: Composite 001-1 to -4
Date Collected: 10/04/21 13:10
Date Received: 10/05/21 10:35

Lab Sample ID: 480-190425-5
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,4-Dimethylphenol	ND	*1	5.0	0.35	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		10/06/21 14:26	10/12/21 16:40	1
2,6-Dinitrotoluene	ND	*1	5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		10/06/21 14:26	10/12/21 16:40	1
2-Chlorophenol	ND		5.0	0.17	ug/L		10/06/21 14:26	10/12/21 16:40	1
2-Nitrophenol	ND		5.0	0.18	ug/L		10/06/21 14:26	10/12/21 16:40	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/06/21 14:26	10/12/21 16:40	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		10/06/21 14:26	10/12/21 16:40	1
4-Bromophenyl phenyl ether	ND	*1	5.0	0.35	ug/L		10/06/21 14:26	10/12/21 16:40	1
4-Chloro-3-methylphenol	ND	*1	5.0	0.28	ug/L		10/06/21 14:26	10/12/21 16:40	1
4-Chlorophenyl phenyl ether	ND	*1	5.0	0.33	ug/L		10/06/21 14:26	10/12/21 16:40	1
4-Nitrophenol	ND	*1	15	0.49	ug/L		10/06/21 14:26	10/12/21 16:40	1
Acenaphthene	ND		5.0	0.20	ug/L		10/06/21 14:26	10/12/21 16:40	1
Acenaphthylene	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 16:40	1
Anthracene	ND		5.0	0.35	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzidine	ND	*1	80	14	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzo[a]anthracene	ND	*1	5.0	0.28	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzo[a]pyrene	ND	*1	5.0	0.33	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		10/06/21 14:26	10/12/21 16:40	1
Benzo[k]fluoranthene	ND	*1	5.0	0.33	ug/L		10/06/21 14:26	10/12/21 16:40	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 16:40	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		10/06/21 14:26	10/12/21 16:40	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		10/06/21 14:26	10/12/21 16:40	1
Butyl benzyl phthalate	ND	*1	5.0	0.28	ug/L		10/06/21 14:26	10/12/21 16:40	1
Chrysene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
Decane	ND	*1	10	0.40	ug/L		10/06/21 14:26	10/12/21 16:40	1
Di-n-butyl phthalate	ND	*1	5.0	0.40	ug/L		10/06/21 14:26	10/12/21 16:40	1
Di-n-octyl phthalate	ND	*1	5.0	0.30	ug/L		10/06/21 14:26	10/12/21 16:40	1
Dibenz(a,h)anthracene	ND	*1	5.0	0.38	ug/L		10/06/21 14:26	10/12/21 16:40	1
Diethyl phthalate	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
Dimethyl phthalate	ND	*1	5.0	0.23	ug/L		10/06/21 14:26	10/12/21 16:40	1
Fluoranthene	ND		5.0	0.40	ug/L		10/06/21 14:26	10/12/21 16:40	1
Fluorene	ND	*1	5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
Hexachlorobenzene	ND	*1	5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 16:40	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		10/06/21 14:26	10/12/21 16:40	1
Hexachloroethane	ND		5.0	0.15	ug/L		10/06/21 14:26	10/12/21 16:40	1
Indeno[1,2,3-cd]pyrene	ND	*1	5.0	0.38	ug/L		10/06/21 14:26	10/12/21 16:40	1
Isophorone	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 16:40	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 16:40	1
N-Nitrosodimethylamine	ND	*1	10	0.14	ug/L		10/06/21 14:26	10/12/21 16:40	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		10/06/21 14:26	10/12/21 16:40	1
Naphthalene	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 16:40	1
Nitrobenzene	ND		5.0	0.20	ug/L		10/06/21 14:26	10/12/21 16:40	1
Pentachlorophenol	ND		10	0.79	ug/L		10/06/21 14:26	10/12/21 16:40	1
Phenanthrene	ND	*1	5.0	0.30	ug/L		10/06/21 14:26	10/12/21 16:40	1

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-190425-5
Date Collected: 10/04/21 13:10
Matrix: Water
Date Received: 10/05/21 10:35

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		10/06/21 14:26	10/12/21 16:40	1
Pyrene	ND	*1	5.0	0.35	ug/L		10/06/21 14:26	10/12/21 16:40	1
n-Octadecane	ND	*1	10	0.30	ug/L		10/06/21 14:26	10/12/21 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*52 - 151*	*10/06/21 14:26*	*10/12/21 16:40*	*1*
2-Fluorobiphenyl	*88*		*44 - 120*	*10/06/21 14:26*	*10/12/21 16:40*	*1*
2-Fluorophenol	*43*		*17 - 120*	*10/06/21 14:26*	*10/12/21 16:40*	*1*
Nitrobenzene-d5	*78*		*15 - 314*	*10/06/21 14:26*	*10/12/21 16:40*	*1*
p-Terphenyl-d14	*102*		*22 - 125*	*10/06/21 14:26*	*10/12/21 16:40*	*1*
Phenol-d5	*32*		*8 - 424*	*10/06/21 14:26*	*10/12/21 16:40*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0020**	**J B**	0.010	0.0015	mg/L		10/06/21 09:45	10/06/21 20:28	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		10/06/21 13:58	10/06/21 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.13**		0.010	0.0050	mg/L		10/12/21 11:06	10/12/21 16:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**	**HF**	0.1	0.1	SU			10/08/21 15:34	1
Temperature	**19.5**	**HF**	0.001	0.001	Degrees C			10/08/21 15:34	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-190425-6
Date Collected: 10/04/21 00:00
Matrix: Water
Date Received: 10/05/21 10:35

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/21 15:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/21 15:46	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/21 15:46	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/21 15:46	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/21 15:46	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/21 15:46	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/21 15:46	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/21 15:46	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/21 15:46	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/21 15:46	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/21 15:46	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/21 15:46	1
Acrolein	ND		100	17	ug/L			10/05/21 15:46	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/21 15:46	1
Benzene	ND		5.0	0.60	ug/L			10/05/21 15:46	1
Bromoform	ND		5.0	0.47	ug/L			10/05/21 15:46	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/21 15:46	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/21 15:46	1

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-190425-6
Date Collected: 10/04/21 00:00
Matrix: Water
Date Received: 10/05/21 10:35

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/21 15:46	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/21 15:46	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/21 15:46	1
Chloroform	ND		5.0	0.54	ug/L			10/05/21 15:46	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/21 15:46	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/21 15:46	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/21 15:46	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/21 15:46	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/21 15:46	1
Methylene Chloride	**1.3**	**J**	5.0	0.81	ug/L			10/05/21 15:46	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/21 15:46	1
Toluene	ND		5.0	0.45	ug/L			10/05/21 15:46	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/21 15:46	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/21 15:46	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/21 15:46	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*10/05/21 15:46*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*10/05/21 15:46*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*10/05/21 15:46*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*10/05/21 15:46*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-190425-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-190425-5	Composite 001-1 to -4	103	100	102	97
480-190425-6	TRIP BLANK	99	100	102	100
LCS 480-599050/5	Lab Control Sample	98	99	101	101
MB 480-599050/7	Method Blank	96	99	101	100

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-190425-5	Composite 001-1 to -4	79	88	43	78	102	32
LCS 480-599301/2-A	Lab Control Sample	89	75	34	77	88	26
LCSD 480-599301/3-A	Lab Control Sample Dup	103	89	42	86	99	31
MB 480-599301/1-A	Method Blank	93	91	43	85	104	31

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-599050/7
Matrix: Water
Analysis Batch: 599050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/21 14:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/21 14:23	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/21 14:23	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/21 14:23	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/21 14:23	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/21 14:23	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/21 14:23	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/21 14:23	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/21 14:23	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/21 14:23	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/21 14:23	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/21 14:23	1
Acrolein	ND		100	17	ug/L			10/05/21 14:23	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/21 14:23	1
Benzene	ND		5.0	0.60	ug/L			10/05/21 14:23	1
Bromoform	ND		5.0	0.47	ug/L			10/05/21 14:23	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/21 14:23	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/21 14:23	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/21 14:23	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/21 14:23	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/21 14:23	1
Chloroform	ND		5.0	0.54	ug/L			10/05/21 14:23	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/21 14:23	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/21 14:23	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/21 14:23	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/21 14:23	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/21 14:23	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/21 14:23	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/21 14:23	1
Toluene	ND		5.0	0.45	ug/L			10/05/21 14:23	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/21 14:23	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/21 14:23	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/21 14:23	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/21 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*10/05/21 14:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*10/05/21 14:23*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*10/05/21 14:23*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*10/05/21 14:23*	*1*

Lab Sample ID: LCS 480-599050/5
Matrix: Water
Analysis Batch: 599050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.9		ug/L		104	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.7		ug/L		108	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-599050/5
Matrix: Water
Analysis Batch: 599050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	52 - 150
1,1-Dichloroethane	20.0	21.7		ug/L		109	59 - 155
1,1-Dichloroethene	20.0	20.6		ug/L		103	1 - 234
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	18 - 190
1,2-Dichloroethane	20.0	20.5		ug/L		102	49 - 155
1,2-Dichloropropane	20.0	21.6		ug/L		108	1 - 210
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	59 - 156
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	18 - 190
2-Chloroethyl vinyl ether	20.0	20.8	J	ug/L		104	1 - 305
Benzene	20.0	21.3		ug/L		107	37 - 151
Bromoform	20.0	23.8		ug/L		119	45 - 169
Bromomethane	20.0	18.7		ug/L		93	1 - 242
Carbon tetrachloride	20.0	22.7		ug/L		113	70 - 140
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160
Dibromochloromethane	20.0	22.2		ug/L		111	53 - 149
Chloroethane	20.0	21.9		ug/L		110	14 - 230
Chloroform	20.0	20.6		ug/L		103	51 - 138
Chloromethane	20.0	19.5		ug/L		98	1 - 273
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	1 - 227
Bromodichloromethane	20.0	21.1		ug/L		106	35 - 155
Ethylbenzene	20.0	21.4		ug/L		107	37 - 162
Methylene Chloride	20.0	22.4		ug/L		112	1 - 221
Tetrachloroethene	20.0	20.2		ug/L		101	64 - 148
Toluene	20.0	20.9		ug/L		105	47 - 150
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	17 - 183
Trichloroethene	20.0	19.8		ug/L		99	71 - 157
Trichlorofluoromethane	20.0	17.3		ug/L		87	17 - 181
Vinyl chloride	20.0	19.5		ug/L		98	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-599301/1-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		10/06/21 14:26	10/12/21 15:04	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		10/06/21 14:26	10/12/21 15:04	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		10/06/21 14:26	10/12/21 15:04	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		10/06/21 14:26	10/12/21 15:04	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-599301/1-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		10/06/21 14:26	10/12/21 15:04	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		10/06/21 14:26	10/12/21 15:04	1
2-Chlorophenol	ND		5.0	0.17	ug/L		10/06/21 14:26	10/12/21 15:04	1
2-Nitrophenol	ND		5.0	0.18	ug/L		10/06/21 14:26	10/12/21 15:04	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/06/21 14:26	10/12/21 15:04	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		10/06/21 14:26	10/12/21 15:04	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		10/06/21 14:26	10/12/21 15:04	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		10/06/21 14:26	10/12/21 15:04	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		10/06/21 14:26	10/12/21 15:04	1
4-Nitrophenol	ND		15	0.49	ug/L		10/06/21 14:26	10/12/21 15:04	1
Acenaphthene	ND		5.0	0.20	ug/L		10/06/21 14:26	10/12/21 15:04	1
Acenaphthylene	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 15:04	1
Anthracene	ND		5.0	0.35	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzidine	ND		80	14	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		10/06/21 14:26	10/12/21 15:04	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		10/06/21 14:26	10/12/21 15:04	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 15:04	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		10/06/21 14:26	10/12/21 15:04	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		10/06/21 14:26	10/12/21 15:04	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		10/06/21 14:26	10/12/21 15:04	1
Chrysene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
Decane	ND		10	0.40	ug/L		10/06/21 14:26	10/12/21 15:04	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		10/06/21 14:26	10/12/21 15:04	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		10/06/21 14:26	10/12/21 15:04	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		10/06/21 14:26	10/12/21 15:04	1
Diethyl phthalate	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		10/06/21 14:26	10/12/21 15:04	1
Fluoranthene	ND		5.0	0.40	ug/L		10/06/21 14:26	10/12/21 15:04	1
Fluorene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		10/06/21 14:26	10/12/21 15:04	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		10/06/21 14:26	10/12/21 15:04	1
Hexachloroethane	ND		5.0	0.15	ug/L		10/06/21 14:26	10/12/21 15:04	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		10/06/21 14:26	10/12/21 15:04	1
Isophorone	ND		5.0	0.19	ug/L		10/06/21 14:26	10/12/21 15:04	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 15:04	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		10/06/21 14:26	10/12/21 15:04	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		10/06/21 14:26	10/12/21 15:04	1
Naphthalene	ND		5.0	0.22	ug/L		10/06/21 14:26	10/12/21 15:04	1
Nitrobenzene	ND		5.0	0.20	ug/L		10/06/21 14:26	10/12/21 15:04	1
Pentachlorophenol	ND		10	0.79	ug/L		10/06/21 14:26	10/12/21 15:04	1
Phenanthrene	ND		5.0	0.30	ug/L		10/06/21 14:26	10/12/21 15:04	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-599301/1-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		10/06/21 14:26	10/12/21 15:04	1
Pyrene	ND		5.0	0.35	ug/L		10/06/21 14:26	10/12/21 15:04	1
n-Octadecane	ND		10	0.30	ug/L		10/06/21 14:26	10/12/21 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*52 - 151*	*10/06/21 14:26*	*10/12/21 15:04*	*1*
2-Fluorobiphenyl	*91*		*44 - 120*	*10/06/21 14:26*	*10/12/21 15:04*	*1*
2-Fluorophenol	*43*		*17 - 120*	*10/06/21 14:26*	*10/12/21 15:04*	*1*
Nitrobenzene-d5	*85*		*15 - 314*	*10/06/21 14:26*	*10/12/21 15:04*	*1*
p-Terphenyl-d14	*104*		*22 - 125*	*10/06/21 14:26*	*10/12/21 15:04*	*1*
Phenol-d5	*31*		*8 - 424*	*10/06/21 14:26*	*10/12/21 15:04*	*1*

Lab Sample ID: LCS 480-599301/2-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	31.8		ug/L		64	44 - 142
1,2-Dichlorobenzene	50.0	29.8		ug/L		60	32 - 129
1,3-Dichlorobenzene	50.0	27.9		ug/L		56	1 - 172
1,4-Dichlorobenzene	50.0	30.0		ug/L		60	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	24.8		ug/L		50	36 - 166
2,4,6-Trichlorophenol	50.0	39.2		ug/L		78	37 - 144
2,4-Dichlorophenol	50.0	37.9		ug/L		76	39 - 135
2,4-Dimethylphenol	50.0	38.4		ug/L		77	32 - 120
2,4-Dinitrophenol	100	78.1		ug/L		78	1 - 191
2,4-Dinitrotoluene	50.0	45.2		ug/L		90	39 - 139
2,6-Dinitrotoluene	50.0	41.6		ug/L		83	50 - 158
2-Chloronaphthalene	50.0	35.8		ug/L		72	60 - 120
2-Chlorophenol	50.0	30.6		ug/L		61	23 - 134
2-Nitrophenol	50.0	36.8		ug/L		74	29 - 182
3,3'-Dichlorobenzidine	100	91.2		ug/L		91	1 - 262
4,6-Dinitro-2-methylphenol	100	87.7		ug/L		88	1 - 181
4-Bromophenyl phenyl ether	50.0	42.5		ug/L		85	53 - 127
4-Chloro-3-methylphenol	50.0	42.5		ug/L		85	22 - 147
4-Chlorophenyl phenyl ether	50.0	39.4		ug/L		79	25 - 158
4-Nitrophenol	100	41.9		ug/L		42	1 - 132
Acenaphthene	50.0	37.8		ug/L		76	47 - 145
Acenaphthylene	50.0	41.0		ug/L		82	33 - 145
Anthracene	50.0	43.8		ug/L		88	27 - 133
Benzidine	100	ND		ug/L		10	1 - 120
Benzo[a]anthracene	50.0	42.5		ug/L		85	33 - 143
Benzo[a]pyrene	50.0	42.7		ug/L		85	17 - 163
Benzo[b]fluoranthene	50.0	44.9		ug/L		90	24 - 159
Benzo[g,h,i]perylene	50.0	45.0		ug/L		90	1 - 219
Benzo[k]fluoranthene	50.0	44.1		ug/L		88	11 - 162
Bis(2-chloroethoxy)methane	50.0	33.8		ug/L		68	33 - 184
Bis(2-chloroethyl)ether	50.0	30.0		ug/L		60	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-599301/2-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	46.5		ug/L		93	8 - 158
Butyl benzyl phthalate	50.0	45.3		ug/L		91	1 - 152
Chrysene	50.0	43.3		ug/L		87	17 - 168
Di-n-butyl phthalate	50.0	49.5		ug/L		99	1 - 120
Di-n-octyl phthalate	50.0	44.9		ug/L		90	4 - 146
Dibenz(a,h)anthracene	50.0	45.5		ug/L		91	1 - 227
Diethyl phthalate	50.0	48.8		ug/L		98	1 - 120
Dimethyl phthalate	50.0	44.5		ug/L		89	1 - 120
Fluoranthene	50.0	46.2		ug/L		92	26 - 137
Fluorene	50.0	39.8		ug/L		80	59 - 121
Hexachlorobenzene	50.0	45.4		ug/L		91	1 - 152
Hexachlorocyclopentadiene	50.0	24.0		ug/L		48	5 - 120
Hexachloroethane	50.0	27.7		ug/L		55	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	44.4		ug/L		89	1 - 171
Isophorone	50.0	38.0		ug/L		76	21 - 196
N-Nitrosodi-n-propylamine	50.0	36.2		ug/L		72	1 - 230
N-Nitrosodiphenylamine	50.0	42.1		ug/L		84	54 - 125
Naphthalene	50.0	34.3		ug/L		69	21 - 133
Nitrobenzene	50.0	35.4		ug/L		71	35 - 180
Pentachlorophenol	100	77.6		ug/L		78	14 - 176
Phenanthrene	50.0	41.4		ug/L		83	54 - 120
Phenol	50.0	12.4		ug/L		25	5 - 120
Pyrene	50.0	41.0		ug/L		82	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*89*		*52 - 151*
2-Fluorobiphenyl	*75*		*44 - 120*
2-Fluorophenol	*34*		*17 - 120*
Nitrobenzene-d5	*77*		*15 - 314*
p-Terphenyl-d14	*88*		*22 - 125*
Phenol-d5	*26*		*8 - 424*

Lab Sample ID: LCSD 480-599301/3-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 599301

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	38.7		ug/L		77	44 - 142	19	34
1,2-Dichlorobenzene	50.0	37.8		ug/L		76	32 - 129	23	38
1,3-Dichlorobenzene	50.0	34.7		ug/L		69	1 - 172	22	37
1,4-Dichlorobenzene	50.0	36.4		ug/L		73	20 - 124	19	40
2,2'-Oxybis(1-chloropropane)	50.0	34.1		ug/L		68	36 - 166	32	36
2,4,6-Trichlorophenol	50.0	45.1		ug/L		90	37 - 144	14	20
2,4-Dichlorophenol	50.0	43.0		ug/L		86	39 - 135	12	23
2,4-Dimethylphenol	50.0	47.9	*1	ug/L		96	32 - 120	22	18
2,4-Dinitrophenol	100	102		ug/L		102	1 - 191	27	29
2,4-Dinitrotoluene	50.0	52.9		ug/L		106	39 - 139	16	20
2,6-Dinitrotoluene	50.0	51.4	*1	ug/L		103	50 - 158	21	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-599301/3-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 599301

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	45.6		ug/L		91	60 - 120	24	30
2-Chlorophenol			50.0	38.9		ug/L		78	23 - 134	24	26
2-Nitrophenol			50.0	43.1		ug/L		86	29 - 182	16	28
3,3'-Dichlorobenzidine			100	109		ug/L		109	1 - 262	17	31
4,6-Dinitro-2-methylphenol			100	101		ug/L		101	1 - 181	14	30
4-Bromophenyl phenyl ether			50.0	52.5	*1	ug/L		105	53 - 127	21	16
4-Chloro-3-methylphenol			50.0	50.5	*1	ug/L		101	22 - 147	17	16
4-Chlorophenyl phenyl ether			50.0	50.7	*1	ug/L		101	25 - 158	25	15
4-Nitrophenol			100	54.4	*1	ug/L		54	1 - 132	26	24
Acenaphthene			50.0	47.5		ug/L		95	47 - 145	23	25
Acenaphthylene			50.0	50.3		ug/L		101	33 - 145	20	22
Anthracene			50.0	51.1		ug/L		102	27 - 133	15	15
Benzidine			100	19.4	J *1	ug/L		19	1 - 120	67	50
Benzo[a]anthracene			50.0	50.6	*1	ug/L		101	33 - 143	17	15
Benzo[a]pyrene			50.0	52.6	*1	ug/L		105	17 - 163	21	15
Benzo[b]fluoranthene			50.0	53.1		ug/L		106	24 - 159	17	17
Benzo[g,h,i]perylene			50.0	54.3		ug/L		109	1 - 219	19	19
Benzo[k]fluoranthene			50.0	55.0	*1	ug/L		110	11 - 162	22	19
Bis(2-chloroethoxy)methane			50.0	41.7		ug/L		83	33 - 184	21	23
Bis(2-chloroethyl)ether			50.0	38.4		ug/L		77	12 - 158	25	33
Bis(2-ethylhexyl) phthalate			50.0	53.0		ug/L		106	8 - 158	13	15
Butyl benzyl phthalate			50.0	54.9	*1	ug/L		110	1 - 152	19	15
Chrysene			50.0	49.9		ug/L		100	17 - 168	14	15
Di-n-butyl phthalate			50.0	58.0	*1	ug/L		116	1 - 120	16	15
Di-n-octyl phthalate			50.0	53.2	*1	ug/L		106	4 - 146	17	15
Dibenz(a,h)anthracene			50.0	56.4	*1	ug/L		113	1 - 227	21	18
Diethyl phthalate			50.0	56.7		ug/L		113	1 - 120	15	15
Dimethyl phthalate			50.0	54.6	*1	ug/L		109	1 - 120	20	15
Fluoranthene			50.0	53.2		ug/L		106	26 - 137	14	15
Fluorene			50.0	48.9	*1	ug/L		98	59 - 121	20	18
Hexachlorobenzene			50.0	53.3	*1	ug/L		107	1 - 152	16	15
Hexachlorocyclopentadiene			50.0	31.5		ug/L		63	5 - 120	27	50
Hexachloroethane			50.0	36.5		ug/L		73	40 - 120	28	43
Indeno[1,2,3-cd]pyrene			50.0	53.1	*1	ug/L		106	1 - 171	18	17
Isophorone			50.0	44.8		ug/L		90	21 - 196	16	21
N-Nitrosodi-n-propylamine			50.0	43.7		ug/L		87	1 - 230	19	23
N-Nitrosodiphenylamine			50.0	48.3		ug/L		97	54 - 125	14	15
Naphthalene			50.0	41.9		ug/L		84	21 - 133	20	31
Nitrobenzene			50.0	41.8		ug/L		84	35 - 180	17	27
Pentachlorophenol			100	93.0		ug/L		93	14 - 176	18	21
Phenanthrene			50.0	49.6	*1	ug/L		99	54 - 120	18	16
Phenol			50.0	14.9		ug/L		30	5 - 120	18	36
Pyrene			50.0	48.2	*1	ug/L		96	52 - 120	16	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*103*		*52 - 151*
2-Fluorobiphenyl	*89*		*44 - 120*
2-Fluorophenol	*42*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-599301/3-A
Matrix: Water
Analysis Batch: 600064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 599301

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*31*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-599127/1-A
Matrix: Water
Analysis Batch: 599403

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00195	J	0.010	0.0015	mg/L		10/06/21 09:45	10/06/21 18:53	1

Lab Sample ID: LCS 480-599127/2-A
Matrix: Water
Analysis Batch: 599403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.203		mg/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-599258/1-A
Matrix: Water
Analysis Batch: 599342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000500	J	0.00020	0.000043	mg/L		10/06/21 13:58	10/06/21 17:21	1

Lab Sample ID: LCS 480-599258/2-A
Matrix: Water
Analysis Batch: 599342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00700		mg/L		105	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-600039/1-A
Matrix: Water
Analysis Batch: 600143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		10/12/21 11:06	10/12/21 16:12	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-600039/2-A
Matrix: Water
Analysis Batch: 600143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.405		mg/L		101	90 - 110

Lab Sample ID: LCS 480-600039/3-A
Matrix: Water
Analysis Batch: 600143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-599687/1
Matrix: Water
Analysis Batch: 599687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 480-599687/19
Matrix: Water
Analysis Batch: 599687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 599050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	624.1	
480-190425-6	TRIP BLANK	Total/NA	Water	624.1	
MB 480-599050/7	Method Blank	Total/NA	Water	624.1	
LCS 480-599050/5	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 599301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	625	
MB 480-599301/1-A	Method Blank	Total/NA	Water	625	
LCS 480-599301/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-599301/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 600064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	625.1	599301
MB 480-599301/1-A	Method Blank	Total/NA	Water	625.1	599301
LCS 480-599301/2-A	Lab Control Sample	Total/NA	Water	625.1	599301
LCSD 480-599301/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	599301

Metals

Prep Batch: 599127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	200.7	
MB 480-599127/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-599127/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 599258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	245.1	
MB 480-599258/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-599258/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 599342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	245.1	599258
MB 480-599258/1-A	Method Blank	Total/NA	Water	245.1	599258
LCS 480-599258/2-A	Lab Control Sample	Total/NA	Water	245.1	599258

Analysis Batch: 599403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	599127
MB 480-599127/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	599127
LCS 480-599127/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	599127

General Chemistry

Analysis Batch: 599687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 599687 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-599687/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 480-599687/19	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 600039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	Distill/CN	
MB 480-600039/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-600039/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-600039/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 600143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190425-5	Composite 001-1 to -4	Total/NA	Water	335.4	600039
MB 480-600039/1-A	Method Blank	Total/NA	Water	335.4	600039
LCS 480-600039/2-A	Lab Control Sample	Total/NA	Water	335.4	600039
LCS 480-600039/3-A	Lab Control Sample	Total/NA	Water	335.4	600039

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-190425-5
Date Collected: 10/04/21 13:10
Matrix: Water
Date Received: 10/05/21 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	599050	10/05/21 15:22	ATG	TAL BUF
Total/NA	Prep	625			599301	10/06/21 14:26	CMC	TAL BUF
Total/NA	Analysis	625.1		1	600064	10/12/21 16:40	PJQ	TAL BUF
Total/NA	Prep	200.7			599127	10/06/21 09:45	KMP	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	599403	10/06/21 20:28	LMH	TAL BUF
Total/NA	Prep	245.1			599258	10/06/21 13:58	BMB	TAL BUF
Total/NA	Analysis	245.1		1	599342	10/06/21 17:34	BMB	TAL BUF
Total/NA	Prep	Distill/CN			600039	10/12/21 11:06	JGO	TAL BUF
Total/NA	Analysis	335.4		1	600143	10/12/21 16:24	SRA	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	599687	10/08/21 15:34	DLG	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-190425-6
Date Collected: 10/04/21 00:00
Matrix: Water
Date Received: 10/05/21 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	599050	10/05/21 15:46	ATG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-190425-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190425-5	Composite 001-1 to -4	Water	10/04/21 13:10	10/05/21 10:35
480-190425-6	TRIP BLANK	Water	10/04/21 00:00	10/05/21 10:35

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-163856-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
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	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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	10/4/21	0710	G	Water			X	X	X	X	X		Lab To
001-2	↓	0910	↓	↓			X	X	X	X	X		Composite
001-3		1110					X	X	X	X	X		Samples
001-4		1310					X	X	X	X	X		
Trip Blank	—	—	—	↓							X		Short Hold

480-190425 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: Dan Gutkowski	10/4/21 1337	Arcadis	Received by: [illegible]	10/4/21 1737	TA
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.:

Cooler Temperature(s) °C and Other Remarks: 4.9 # ICE

Ver: 06/08/2021

10/15/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-190425-1

Login Number: 190425
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192044-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
11/22/2021 3:09:20 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

Metals

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.

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
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

Job ID: 480-192044-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-192044-1

Comments
No additional comments.

Receipt
The samples were received on 11/8/2021 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.5º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 11/9/21 as requested by the client: Composite 001-1 to -4 (480-192044-5).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-604014 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: Composite 001-1 to -4 (480-192044-5) and TRIP BLANK (480-192044-6).

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-604014 recovered outside control limits for the following analytes: Acrolein. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-604130 and analytical batch 480-604215 recovered outside control limits for the following analytes: Di-n-octyl phthalate.

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
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Composite 001-1 to -4 (480-192044-5).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 11/09/2021 as requested on the chain-of-custody: Composite 001-1 to -4 (480-192044-5).

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
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192044-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0037	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192044-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192044-5
Date Collected: 11/08/21 13:15
Matrix: Water
Date Received: 11/08/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 14:13	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 14:13	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 14:13	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 14:13	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 14:13	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 14:13	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 14:13	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 14:13	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 14:13	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 14:13	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 14:13	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 14:13	1
Acrolein	ND	*+	100	17	ug/L			11/09/21 14:13	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 14:13	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 14:13	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 14:13	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 14:13	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 14:13	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 14:13	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/09/21 14:13	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 14:13	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 14:13	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 14:13	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 14:13	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 14:13	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/09/21 14:13	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 14:13	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 14:13	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 14:13	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 14:13	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 14:13	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 14:13	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/09/21 14:13	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*11/09/21 14:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*11/09/21 14:13*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*11/09/21 14:13*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*11/09/21 14:13*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		11/09/21 15:01	11/10/21 13:45	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		11/09/21 15:01	11/10/21 13:45	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		11/09/21 15:01	11/10/21 13:45	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		11/09/21 15:01	11/10/21 13:45	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-192044-1

Client Sample ID: Composite 001-1 to -4
Date Collected: 11/08/21 13:15
Date Received: 11/08/21 14:15

Lab Sample ID: 480-192044-5
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		11/09/21 15:01	11/10/21 13:45	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 13:45	1
2-Chlorophenol	ND		5.0	0.17	ug/L		11/09/21 15:01	11/10/21 13:45	1
2-Nitrophenol	ND		5.0	0.18	ug/L		11/09/21 15:01	11/10/21 13:45	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 13:45	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		11/09/21 15:01	11/10/21 13:45	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 13:45	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 13:45	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 13:45	1
4-Nitrophenol	ND		15	0.49	ug/L		11/09/21 15:01	11/10/21 13:45	1
Acenaphthene	ND		5.0	0.20	ug/L		11/09/21 15:01	11/10/21 13:45	1
Acenaphthylene	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 13:45	1
Anthracene	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzidine	ND		80	14	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 13:45	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 13:45	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 13:45	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 13:45	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		11/09/21 15:01	11/10/21 13:45	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 13:45	1
Chrysene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
Decane	ND		10	0.40	ug/L		11/09/21 15:01	11/10/21 13:45	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 13:45	1
Di-n-octyl phthalate	ND	*1	5.0	0.30	ug/L		11/09/21 15:01	11/10/21 13:45	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 13:45	1
Diethyl phthalate	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 13:45	1
Fluoranthene	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 13:45	1
Fluorene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 13:45	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		11/09/21 15:01	11/10/21 13:45	1
Hexachloroethane	ND		5.0	0.15	ug/L		11/09/21 15:01	11/10/21 13:45	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 13:45	1
Isophorone	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 13:45	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 13:45	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		11/09/21 15:01	11/10/21 13:45	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		11/09/21 15:01	11/10/21 13:45	1
Naphthalene	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 13:45	1
Nitrobenzene	ND		5.0	0.20	ug/L		11/09/21 15:01	11/10/21 13:45	1
Pentachlorophenol	ND		10	0.79	ug/L		11/09/21 15:01	11/10/21 13:45	1
Phenanthrene	ND		5.0	0.30	ug/L		11/09/21 15:01	11/10/21 13:45	1

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192044-5
Date Collected: 11/08/21 13:15
Matrix: Water
Date Received: 11/08/21 14:15

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		11/09/21 15:01	11/10/21 13:45	1
Pyrene	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 13:45	1
n-Octadecane	ND		10	0.30	ug/L		11/09/21 15:01	11/10/21 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*52 - 151*	*11/09/21 15:01*	*11/10/21 13:45*	*1*
2-Fluorobiphenyl	*87*		*44 - 120*	*11/09/21 15:01*	*11/10/21 13:45*	*1*
2-Fluorophenol	*56*		*17 - 120*	*11/09/21 15:01*	*11/10/21 13:45*	*1*
Nitrobenzene-d5	*81*		*15 - 314*	*11/09/21 15:01*	*11/10/21 13:45*	*1*
p-Terphenyl-d14	*102*		*22 - 125*	*11/09/21 15:01*	*11/10/21 13:45*	*1*
Phenol-d5	*33*		*8 - 424*	*11/09/21 15:01*	*11/10/21 13:45*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0037**	**J B**	0.010	0.0015	mg/L		11/11/21 09:35	11/13/21 18:21	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		11/11/21 10:58	11/11/21 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		11/18/21 11:00	11/18/21 15:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.3**	**HF**	0.1	0.1	SU			11/15/21 11:01	1
Temperature	**22.8**	**HF**	0.001	0.001	Degrees C			11/15/21 11:01	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192044-6
Date Collected: 11/08/21 00:00
Matrix: Water
Date Received: 11/08/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 14:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 14:37	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 14:37	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 14:37	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 14:37	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 14:37	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 14:37	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 14:37	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 14:37	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 14:37	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 14:37	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 14:37	1
Acrolein	ND	*+	100	17	ug/L			11/09/21 14:37	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 14:37	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 14:37	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 14:37	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 14:37	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 14:37	1

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192044-6
Date Collected: 11/08/21 00:00
Matrix: Water
Date Received: 11/08/21 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 14:37	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/09/21 14:37	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 14:37	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 14:37	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 14:37	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 14:37	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 14:37	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/09/21 14:37	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 14:37	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 14:37	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 14:37	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 14:37	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 14:37	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 14:37	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/09/21 14:37	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*11/09/21 14:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/09/21 14:37*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*11/09/21 14:37*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/09/21 14:37*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-192044-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-192044-5	Composite 001-1 to -4	101	100	103	105
480-192044-6	TRIP BLANK	95	99	102	98
LCS 480-604014/6	Lab Control Sample	94	101	101	100
MB 480-604014/8	Method Blank	98	99	103	105

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-192044-5	Composite 001-1 to -4	78	87	56	81	102	33
LCS 480-604130/2-A	Lab Control Sample	92	90	46	81	99	33
LCSD 480-604130/3-A	Lab Control Sample Dup	96	93	51	85	103	35
MB 480-604130/1-A	Method Blank	75	96	64	83	107	36

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-192044-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-604014/8
Matrix: Water
Analysis Batch: 604014

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 12:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 12:48	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 12:48	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 12:48	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 12:48	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 12:48	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 12:48	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 12:48	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 12:48	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 12:48	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 12:48	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 12:48	1
Acrolein	ND		100	17	ug/L			11/09/21 12:48	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 12:48	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 12:48	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 12:48	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 12:48	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 12:48	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 12:48	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/09/21 12:48	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 12:48	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 12:48	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 12:48	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 12:48	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 12:48	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/09/21 12:48	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 12:48	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 12:48	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 12:48	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 12:48	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 12:48	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 12:48	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/09/21 12:48	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*11/09/21 12:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/09/21 12:48*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*11/09/21 12:48*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*11/09/21 12:48*	*1*

Lab Sample ID: LCS 480-604014/6
Matrix: Water
Analysis Batch: 604014

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			20.0	21.0		ug/L		105	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	22.0		ug/L		110	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-604014/6
Matrix: Water
Analysis Batch: 604014

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	52 - 150
1,1-Dichloroethane	20.0	19.9		ug/L		100	59 - 155
1,1-Dichloroethene	20.0	19.1		ug/L		96	1 - 234
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	18 - 190
1,2-Dichloroethane	20.0	19.4		ug/L		97	49 - 155
1,2-Dichloropropane	20.0	21.4		ug/L		107	1 - 210
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	59 - 156
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
2-Chloroethyl vinyl ether	20.0	22.1	J	ug/L		110	1 - 305
Benzene	20.0	21.3		ug/L		106	37 - 151
Bromoform	20.0	26.6		ug/L		133	45 - 169
Bromomethane	20.0	10.3		ug/L		52	1 - 242
Carbon tetrachloride	20.0	23.8		ug/L		119	70 - 140
Chlorobenzene	20.0	20.9		ug/L		104	37 - 160
Dibromochloromethane	20.0	24.0		ug/L		120	53 - 149
Chloroethane	20.0	13.3		ug/L		66	14 - 230
Chloroform	20.0	20.2		ug/L		101	51 - 138
Chloromethane	20.0	5.96		ug/L		30	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Bromodichloromethane	20.0	21.9		ug/L		110	35 - 155
Ethylbenzene	20.0	21.3		ug/L		107	37 - 162
Methylene Chloride	20.0	20.3		ug/L		102	1 - 221
Tetrachloroethene	20.0	21.4		ug/L		107	64 - 148
Toluene	20.0	21.0		ug/L		105	47 - 150
trans-1,3-Dichloropropene	20.0	20.9		ug/L		104	17 - 183
Trichloroethene	20.0	20.5		ug/L		102	71 - 157
Trichlorofluoromethane	20.0	13.7		ug/L		69	17 - 181
Vinyl chloride	20.0	7.65		ug/L		38	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-604130/1-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		11/09/21 15:01	11/10/21 12:09	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		11/09/21 15:01	11/10/21 12:09	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		11/09/21 15:01	11/10/21 12:09	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		11/09/21 15:01	11/10/21 12:09	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-604130/1-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		11/09/21 15:01	11/10/21 12:09	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 12:09	1
2-Chlorophenol	ND		5.0	0.17	ug/L		11/09/21 15:01	11/10/21 12:09	1
2-Nitrophenol	ND		5.0	0.18	ug/L		11/09/21 15:01	11/10/21 12:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 12:09	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		11/09/21 15:01	11/10/21 12:09	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 12:09	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 12:09	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 12:09	1
4-Nitrophenol	ND		15	0.49	ug/L		11/09/21 15:01	11/10/21 12:09	1
Acenaphthene	ND		5.0	0.20	ug/L		11/09/21 15:01	11/10/21 12:09	1
Acenaphthylene	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 12:09	1
Anthracene	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzidine	ND		80	14	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 12:09	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		11/09/21 15:01	11/10/21 12:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 12:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 12:09	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		11/09/21 15:01	11/10/21 12:09	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		11/09/21 15:01	11/10/21 12:09	1
Chrysene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
Decane	ND		10	0.40	ug/L		11/09/21 15:01	11/10/21 12:09	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 12:09	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		11/09/21 15:01	11/10/21 12:09	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 12:09	1
Diethyl phthalate	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		11/09/21 15:01	11/10/21 12:09	1
Fluoranthene	ND		5.0	0.40	ug/L		11/09/21 15:01	11/10/21 12:09	1
Fluorene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		11/09/21 15:01	11/10/21 12:09	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		11/09/21 15:01	11/10/21 12:09	1
Hexachloroethane	ND		5.0	0.15	ug/L		11/09/21 15:01	11/10/21 12:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		11/09/21 15:01	11/10/21 12:09	1
Isophorone	ND		5.0	0.19	ug/L		11/09/21 15:01	11/10/21 12:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 12:09	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		11/09/21 15:01	11/10/21 12:09	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		11/09/21 15:01	11/10/21 12:09	1
Naphthalene	ND		5.0	0.22	ug/L		11/09/21 15:01	11/10/21 12:09	1
Nitrobenzene	ND		5.0	0.20	ug/L		11/09/21 15:01	11/10/21 12:09	1
Pentachlorophenol	ND		10	0.79	ug/L		11/09/21 15:01	11/10/21 12:09	1
Phenanthrene	ND		5.0	0.30	ug/L		11/09/21 15:01	11/10/21 12:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-604130/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 604215
Prep Batch: 604130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		11/09/21 15:01	11/10/21 12:09	1
Pyrene	ND		5.0	0.35	ug/L		11/09/21 15:01	11/10/21 12:09	1
n-Octadecane	ND		10	0.30	ug/L		11/09/21 15:01	11/10/21 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*52 - 151*	*11/09/21 15:01*	*11/10/21 12:09*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*11/09/21 15:01*	*11/10/21 12:09*	*1*
2-Fluorophenol	*64*		*17 - 120*	*11/09/21 15:01*	*11/10/21 12:09*	*1*
Nitrobenzene-d5	*83*		*15 - 314*	*11/09/21 15:01*	*11/10/21 12:09*	*1*
p-Terphenyl-d14	*107*		*22 - 125*	*11/09/21 15:01*	*11/10/21 12:09*	*1*
Phenol-d5	*36*		*8 - 424*	*11/09/21 15:01*	*11/10/21 12:09*	*1*

Lab Sample ID: LCS 480-604130/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 604215
Prep Batch: 604130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	39.8		ug/L		80	44 - 142
1,2-Dichlorobenzene	50.0	37.5		ug/L		75	32 - 129
1,3-Dichlorobenzene	50.0	35.2		ug/L		70	1 - 172
1,4-Dichlorobenzene	50.0	37.4		ug/L		75	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	39.0		ug/L		78	36 - 166
2,4,6-Trichlorophenol	50.0	45.2		ug/L		90	37 - 144
2,4-Dichlorophenol	50.0	44.4		ug/L		89	39 - 135
2,4-Dimethylphenol	50.0	44.7		ug/L		89	32 - 120
2,4-Dinitrophenol	100	102		ug/L		102	1 - 191
2,4-Dinitrotoluene	50.0	53.4		ug/L		107	39 - 139
2,6-Dinitrotoluene	50.0	50.2		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	42.9		ug/L		86	60 - 120
2-Chlorophenol	50.0	38.8		ug/L		78	23 - 134
2-Nitrophenol	50.0	42.1		ug/L		84	29 - 182
3,3'-Dichlorobenzidine	100	91.1		ug/L		91	1 - 262
4,6-Dinitro-2-methylphenol	100	98.1		ug/L		98	1 - 181
4-Bromophenyl phenyl ether	50.0	48.0		ug/L		96	53 - 127
4-Chloro-3-methylphenol	50.0	46.9		ug/L		94	22 - 147
4-Chlorophenyl phenyl ether	50.0	46.5		ug/L		93	25 - 158
4-Nitrophenol	100	42.8		ug/L		43	1 - 132
Acenaphthene	50.0	45.9		ug/L		92	47 - 145
Acenaphthylene	50.0	44.3		ug/L		89	33 - 145
Anthracene	50.0	49.4		ug/L		99	27 - 133
Benzidine	100	ND		ug/L		5	1 - 120
Benzo[a]anthracene	50.0	50.7		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	48.0		ug/L		96	17 - 163
Benzo[b]fluoranthene	50.0	51.9		ug/L		104	24 - 159
Benzo[g,h,i]perylene	50.0	45.9		ug/L		92	1 - 219
Benzo[k]fluoranthene	50.0	50.9		ug/L		102	11 - 162
Bis(2-chloroethoxy)methane	50.0	43.0		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	40.7		ug/L		81	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-604130/2-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	49.8		ug/L		100	8 - 158
Butyl benzyl phthalate	50.0	52.3		ug/L		105	1 - 152
Chrysene	50.0	50.2		ug/L		100	17 - 168
Di-n-butyl phthalate	50.0	49.7		ug/L		99	1 - 120
Di-n-octyl phthalate	50.0	46.3		ug/L		93	4 - 146
Dibenz(a,h)anthracene	50.0	47.1		ug/L		94	1 - 227
Diethyl phthalate	50.0	50.9		ug/L		102	1 - 120
Dimethyl phthalate	50.0	49.3		ug/L		99	1 - 120
Fluoranthene	50.0	50.4		ug/L		101	26 - 137
Fluorene	50.0	48.4		ug/L		97	59 - 121
Hexachlorobenzene	50.0	48.8		ug/L		98	1 - 152
Hexachlorocyclopentadiene	50.0	37.0		ug/L		74	5 - 120
Hexachloroethane	50.0	34.0		ug/L		68	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	46.0		ug/L		92	1 - 171
Isophorone	50.0	44.9		ug/L		90	21 - 196
N-Nitrosodi-n-propylamine	50.0	43.8		ug/L		88	1 - 230
N-Nitrosodiphenylamine	50.0	50.6		ug/L		101	54 - 125
Naphthalene	50.0	40.8		ug/L		82	21 - 133
Nitrobenzene	50.0	41.7		ug/L		83	35 - 180
Pentachlorophenol	100	80.4		ug/L		80	14 - 176
Phenanthrene	50.0	50.6		ug/L		101	54 - 120
Phenol	50.0	19.3		ug/L		39	5 - 120
Pyrene	50.0	53.1		ug/L		106	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*46*		*17 - 120*
Nitrobenzene-d5	*81*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*33*		*8 - 424*

Lab Sample ID: LCSD 480-604130/3-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	41.8		ug/L		84	44 - 142	5	34
1,2-Dichlorobenzene	50.0	41.0		ug/L		82	32 - 129	9	38
1,3-Dichlorobenzene	50.0	40.4		ug/L		81	1 - 172	14	37
1,4-Dichlorobenzene	50.0	40.8		ug/L		82	20 - 124	9	40
2,2'-Oxybis(1-chloropropane)	50.0	41.5		ug/L		83	36 - 166	6	36
2,4,6-Trichlorophenol	50.0	46.9		ug/L		94	37 - 144	4	20
2,4-Dichlorophenol	50.0	46.8		ug/L		94	39 - 135	5	23
2,4-Dimethylphenol	50.0	46.4		ug/L		93	32 - 120	4	18
2,4-Dinitrophenol	100	109		ug/L		109	1 - 191	7	29
2,4-Dinitrotoluene	50.0	56.0		ug/L		112	39 - 139	5	20
2,6-Dinitrotoluene	50.0	54.3		ug/L		109	50 - 158	8	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-604130/3-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604130

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	45.2		ug/L		90	60 - 120	5	30
2-Chlorophenol			50.0	41.9		ug/L		84	23 - 134	8	26
2-Nitrophenol			50.0	43.4		ug/L		87	29 - 182	3	28
3,3'-Dichlorobenzidine			100	96.8		ug/L		97	1 - 262	6	31
4,6-Dinitro-2-methylphenol			100	99.4		ug/L		99	1 - 181	1	30
4-Bromophenyl phenyl ether			50.0	50.0		ug/L		100	53 - 127	4	16
4-Chloro-3-methylphenol			50.0	50.6		ug/L		101	22 - 147	8	16
4-Chlorophenyl phenyl ether			50.0	49.5		ug/L		99	25 - 158	6	15
4-Nitrophenol			100	46.9		ug/L		47	1 - 132	9	24
Acenaphthene			50.0	49.5		ug/L		99	47 - 145	8	25
Acenaphthylene			50.0	46.7		ug/L		93	33 - 145	5	22
Anthracene			50.0	52.0		ug/L		104	27 - 133	5	15
Benzidine			100	ND		ug/L		8	1 - 120	46	50
Benzo[a]anthracene			50.0	52.3		ug/L		105	33 - 143	3	15
Benzo[a]pyrene			50.0	47.5		ug/L		95	17 - 163	1	15
Benzo[b]fluoranthene			50.0	52.1		ug/L		104	24 - 159	0	17
Benzo[g,h,i]perylene			50.0	53.3		ug/L		107	1 - 219	15	19
Benzo[k]fluoranthene			50.0	55.4		ug/L		111	11 - 162	8	19
Bis(2-chloroethoxy)methane			50.0	43.6		ug/L		87	33 - 184	1	23
Bis(2-chloroethyl)ether			50.0	42.5		ug/L		85	12 - 158	4	33
Bis(2-ethylhexyl) phthalate			50.0	53.7		ug/L		107	8 - 158	7	15
Butyl benzyl phthalate			50.0	51.7		ug/L		103	1 - 152	1	15
Chrysene			50.0	51.6		ug/L		103	17 - 168	3	15
Di-n-butyl phthalate			50.0	54.8		ug/L		110	1 - 120	10	15
Di-n-octyl phthalate			50.0	54.8	*1	ug/L		110	4 - 146	17	15
Dibenz(a,h)anthracene			50.0	54.5		ug/L		109	1 - 227	14	18
Diethyl phthalate			50.0	53.0		ug/L		106	1 - 120	4	15
Dimethyl phthalate			50.0	53.6		ug/L		107	1 - 120	8	15
Fluoranthene			50.0	52.2		ug/L		104	26 - 137	4	15
Fluorene			50.0	50.8		ug/L		102	59 - 121	5	18
Hexachlorobenzene			50.0	51.5		ug/L		103	1 - 152	5	15
Hexachlorocyclopentadiene			50.0	39.8		ug/L		80	5 - 120	7	50
Hexachloroethane			50.0	39.7		ug/L		79	40 - 120	16	43
Indeno[1,2,3-cd]pyrene			50.0	53.3		ug/L		107	1 - 171	15	17
Isophorone			50.0	46.0		ug/L		92	21 - 196	2	21
N-Nitrosodi-n-propylamine			50.0	46.0		ug/L		92	1 - 230	5	23
N-Nitrosodiphenylamine			50.0	51.2		ug/L		102	54 - 125	1	15
Naphthalene			50.0	44.2		ug/L		88	21 - 133	8	31
Nitrobenzene			50.0	43.4		ug/L		87	35 - 180	4	27
Pentachlorophenol			100	82.5		ug/L		82	14 - 176	3	21
Phenanthrene			50.0	52.2		ug/L		104	54 - 120	3	16
Phenol			50.0	19.9		ug/L		40	5 - 120	3	36
Pyrene			50.0	50.9		ug/L		102	52 - 120	4	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*96*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-604130/3-A
Matrix: Water
Analysis Batch: 604215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604130

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*15 - 314*
p-Terphenyl-d14	*103*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-604399/1-A
Matrix: Water
Analysis Batch: 604946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00661	J	0.010	0.0015	mg/L		11/11/21 09:35	11/13/21 17:56	1

Lab Sample ID: LCS 480-604399/2-A
Matrix: Water
Analysis Batch: 604946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.206		mg/L		103	85 - 115

Lab Sample ID: 480-192044-5 MS
Matrix: Water
Analysis Batch: 604946

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 604399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.0037	J B	0.200	0.199		mg/L		98	70 - 130

Lab Sample ID: 480-192044-5 MSD
Matrix: Water
Analysis Batch: 604946

Client Sample ID: Composite 001-1 to -4
Prep Type: Total/NA
Prep Batch: 604399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	0.0037	J B	0.200	0.206		mg/L		101	70 - 130	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-604235/1-A
Matrix: Water
Analysis Batch: 604578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000500	J	0.00020	0.000043	mg/L		11/11/21 10:58	11/11/21 13:41	1

Lab Sample ID: LCS 480-604235/2-A
Matrix: Water
Analysis Batch: 604578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00622		mg/L		93	85 - 115

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-192044-1

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-605585/1-A
Matrix: Water
Analysis Batch: 605670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		11/18/21 11:00	11/18/21 15:16	1

Lab Sample ID: LCS 480-605585/2-A
Matrix: Water
Analysis Batch: 605670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.254		mg/L		102	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-605019/1
Matrix: Water
Analysis Batch: 605019

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 604014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	624.1	
480-192044-6	TRIP BLANK	Total/NA	Water	624.1	
MB 480-604014/8	Method Blank	Total/NA	Water	624.1	
LCS 480-604014/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 604130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	625	
MB 480-604130/1-A	Method Blank	Total/NA	Water	625	
LCS 480-604130/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-604130/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 604215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	625.1	604130
MB 480-604130/1-A	Method Blank	Total/NA	Water	625.1	604130
LCS 480-604130/2-A	Lab Control Sample	Total/NA	Water	625.1	604130
LCSD 480-604130/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	604130

Metals

Prep Batch: 604235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	245.1	
MB 480-604235/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-604235/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 604399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	200.7	
MB 480-604399/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-604399/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-192044-5 MS	Composite 001-1 to -4	Total/NA	Water	200.7	
480-192044-5 MSD	Composite 001-1 to -4	Total/NA	Water	200.7	

Analysis Batch: 604578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	245.1	604235
MB 480-604235/1-A	Method Blank	Total/NA	Water	245.1	604235
LCS 480-604235/2-A	Lab Control Sample	Total/NA	Water	245.1	604235

Analysis Batch: 604946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	604399
MB 480-604399/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	604399
LCS 480-604399/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	604399
480-192044-5 MS	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	604399
480-192044-5 MSD	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	604399

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Analysis Batch: 605019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	
LCS 480-605019/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 605585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	Distill/CN	
MB 480-605585/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-605585/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 605670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192044-5	Composite 001-1 to -4	Total/NA	Water	335.4	605585
MB 480-605585/1-A	Method Blank	Total/NA	Water	335.4	605585
LCS 480-605585/2-A	Lab Control Sample	Total/NA	Water	335.4	605585

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192044-5
Date Collected: 11/08/21 13:15
Matrix: Water
Date Received: 11/08/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	604014	11/09/21 14:13	ATG	TAL BUF
Total/NA	Prep	625			604130	11/09/21 15:01	CMC	TAL BUF
Total/NA	Analysis	625.1		1	604215	11/10/21 13:45	JMM	TAL BUF
Total/NA	Prep	200.7			604399	11/11/21 09:35	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	604946	11/13/21 18:21	AMH	TAL BUF
Total/NA	Prep	245.1			604235	11/11/21 10:58	NVK	TAL BUF
Total/NA	Analysis	245.1		1	604578	11/11/21 14:50	BMB	TAL BUF
Total/NA	Prep	Distill/CN			605585	11/18/21 11:00	RJM	TAL BUF
Total/NA	Analysis	335.4		1	605670	11/18/21 15:44	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	605019	11/15/21 11:01	DLG	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192044-6
Date Collected: 11/08/21 00:00
Matrix: Water
Date Received: 11/08/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	604014	11/09/21 14:37	ATG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192044-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-192044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192044-5	Composite 001-1 to -4	Water	11/08/21 13:15	11/08/21 14:15
480-192044-6	TRIP BLANK	Water	11/08/21 00:00	11/08/21 14:15

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-163857-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, M - Hexane, N - None, O - AsNaO2
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082166			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

480-192044 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of c	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	11/8/21	0715	G	Water			X	X	X	X	X	3	Lab TO
001-2	↓	0915	G	↓			X	X	X	X	X	3	Composite
001-3		1115	G				X	X	X	X	X	3	Samples
001-4	↓	1315	G				X	X	X	X	X	3	
Trip Blank	—	—	—	↓							X	1	Short Hold Time

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
Dan Gutkowski	11/8/21 / 1415	Arcadis	[signature]	11/8/21 1415	TA
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.:	Cooler Temperature(s) °C and Other Remarks:	0.5 #1 NO ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-192044-1

Login Number: 192044
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192936-1
Client Project/Site: Iroquois Gas/Westwood Pharm Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Judy Stone

Authorized for release by:
12/8/2021 4:00:31 PM
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

Designee for

Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Job ID: 480-192936-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-192936-1

Comments
No additional comments.

Receipt
The samples were received on 12/1/2021 1:27 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 12/2/21 as requested by the client: Composite 001-1 to -4 (480-192936-5). Regulatory defined guidance for in-laboratory compositing of samples is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The laboratory control sample (LCS) for analytical batch 480-607397 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-607397 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: Composite 001-1 to -4 (480-192936-5) and TRIP BLANK (480-192936-6).

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

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

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

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Composite 001-1 to -4 (480-192936-5) and (480-192936-E-5 DU).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192936-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0015	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.1	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192936-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192936-5
Date Collected: 12/01/21 13:10
Matrix: Water
Date Received: 12/01/21 13:27

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/02/21 16:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/02/21 16:54	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/02/21 16:54	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/02/21 16:54	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/02/21 16:54	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/02/21 16:54	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/02/21 16:54	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/02/21 16:54	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/02/21 16:54	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/02/21 16:54	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/02/21 16:54	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/02/21 16:54	1
Acrolein	ND	*+	100	17	ug/L			12/02/21 16:54	1
Acrylonitrile	ND		50	1.9	ug/L			12/02/21 16:54	1
Benzene	ND		5.0	0.60	ug/L			12/02/21 16:54	1
Bromoform	ND		5.0	0.47	ug/L			12/02/21 16:54	1
Bromomethane	ND		5.0	1.2	ug/L			12/02/21 16:54	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/02/21 16:54	1
Chlorobenzene	ND		5.0	0.48	ug/L			12/02/21 16:54	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/02/21 16:54	1
Chloroethane	ND		5.0	0.87	ug/L			12/02/21 16:54	1
Chloroform	ND		5.0	0.54	ug/L			12/02/21 16:54	1
Chloromethane	ND		5.0	0.64	ug/L			12/02/21 16:54	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/02/21 16:54	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/02/21 16:54	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/02/21 16:54	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/02/21 16:54	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/02/21 16:54	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/02/21 16:54	1
Toluene	ND		5.0	0.45	ug/L			12/02/21 16:54	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/02/21 16:54	1
Trichloroethene	ND		5.0	0.60	ug/L			12/02/21 16:54	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/02/21 16:54	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/02/21 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*68 - 130*		*12/02/21 16:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 123*		*12/02/21 16:54*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*12/02/21 16:54*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*12/02/21 16:54*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		12/06/21 10:24	12/07/21 16:33	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		12/06/21 10:24	12/07/21 16:33	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		12/06/21 10:24	12/07/21 16:33	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		12/06/21 10:24	12/07/21 16:33	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192936-5
Date Collected: 12/01/21 13:10
Matrix: Water
Date Received: 12/01/21 13:27

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		12/06/21 10:24	12/07/21 16:33	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		12/06/21 10:24	12/07/21 16:33	1
2-Chlorophenol	ND		4.8	0.16	ug/L		12/06/21 10:24	12/07/21 16:33	1
2-Nitrophenol	ND		4.8	0.17	ug/L		12/06/21 10:24	12/07/21 16:33	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		12/06/21 10:24	12/07/21 16:33	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		12/06/21 10:24	12/07/21 16:33	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		12/06/21 10:24	12/07/21 16:33	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		12/06/21 10:24	12/07/21 16:33	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		12/06/21 10:24	12/07/21 16:33	1
4-Nitrophenol	ND		14	0.46	ug/L		12/06/21 10:24	12/07/21 16:33	1
Acenaphthene	ND		4.8	0.19	ug/L		12/06/21 10:24	12/07/21 16:33	1
Acenaphthylene	ND		4.8	0.21	ug/L		12/06/21 10:24	12/07/21 16:33	1
Anthracene	ND		4.8	0.33	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzidine	ND		76	13	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		12/06/21 10:24	12/07/21 16:33	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		12/06/21 10:24	12/07/21 16:33	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		12/06/21 10:24	12/07/21 16:33	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		12/06/21 10:24	12/07/21 16:33	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		12/06/21 10:24	12/07/21 16:33	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		12/06/21 10:24	12/07/21 16:33	1
Chrysene	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
Decane	ND		9.5	0.38	ug/L		12/06/21 10:24	12/07/21 16:33	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		12/06/21 10:24	12/07/21 16:33	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		12/06/21 10:24	12/07/21 16:33	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		12/06/21 10:24	12/07/21 16:33	1
Diethyl phthalate	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		12/06/21 10:24	12/07/21 16:33	1
Fluoranthene	ND		4.8	0.38	ug/L		12/06/21 10:24	12/07/21 16:33	1
Fluorene	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		12/06/21 10:24	12/07/21 16:33	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		12/06/21 10:24	12/07/21 16:33	1
Hexachloroethane	ND		4.8	0.14	ug/L		12/06/21 10:24	12/07/21 16:33	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		12/06/21 10:24	12/07/21 16:33	1
Isophorone	ND		4.8	0.18	ug/L		12/06/21 10:24	12/07/21 16:33	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		12/06/21 10:24	12/07/21 16:33	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		12/06/21 10:24	12/07/21 16:33	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		12/06/21 10:24	12/07/21 16:33	1
Naphthalene	ND		4.8	0.20	ug/L		12/06/21 10:24	12/07/21 16:33	1
Nitrobenzene	ND		4.8	0.19	ug/L		12/06/21 10:24	12/07/21 16:33	1
Pentachlorophenol	ND		9.5	0.75	ug/L		12/06/21 10:24	12/07/21 16:33	1
Phenanthrene	ND		4.8	0.29	ug/L		12/06/21 10:24	12/07/21 16:33	1

Client Sample ID: Composite 001-1 to -4

Lab Sample ID: 480-192936-5

Date Collected: 12/01/21 13:10

Matrix: Water

Date Received: 12/01/21 13:27

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		12/06/21 10:24	12/07/21 16:33	1
Pyrene	ND		4.8	0.33	ug/L		12/06/21 10:24	12/07/21 16:33	1
n-Octadecane	ND		9.5	0.29	ug/L		12/06/21 10:24	12/07/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*52 - 151*	*12/06/21 10:24*	*12/07/21 16:33*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*12/06/21 10:24*	*12/07/21 16:33*	*1*
2-Fluorophenol	*50*		*17 - 120*	*12/06/21 10:24*	*12/07/21 16:33*	*1*
Nitrobenzene-d5	*90*		*15 - 314*	*12/06/21 10:24*	*12/07/21 16:33*	*1*
p-Terphenyl-d14	*94*		*22 - 125*	*12/06/21 10:24*	*12/07/21 16:33*	*1*
Phenol-d5	*34*		*8 - 424*	*12/06/21 10:24*	*12/07/21 16:33*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0015**	**J B**	0.010	0.0015	mg/L		12/03/21 08:55	12/03/21 20:43	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		12/02/21 12:42	12/02/21 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/02/21 12:47	12/02/21 14:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**	0.1	0.1	SU			12/03/21 12:29	1
Temperature	**20.1**	**HF**	0.001	0.001	Degrees C			12/03/21 12:29	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-192936-6

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/01/21 13:27

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/02/21 17:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/02/21 17:18	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/02/21 17:18	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/02/21 17:18	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/02/21 17:18	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/02/21 17:18	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/02/21 17:18	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/02/21 17:18	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/02/21 17:18	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/02/21 17:18	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/02/21 17:18	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/02/21 17:18	1
Acrolein	ND	*+	100	17	ug/L			12/02/21 17:18	1
Acrylonitrile	ND		50	1.9	ug/L			12/02/21 17:18	1
Benzene	ND		5.0	0.60	ug/L			12/02/21 17:18	1
Bromoform	ND		5.0	0.47	ug/L			12/02/21 17:18	1
Bromomethane	ND		5.0	1.2	ug/L			12/02/21 17:18	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/02/21 17:18	1

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192936-6
Date Collected: 12/01/21 00:00
Matrix: Water
Date Received: 12/01/21 13:27

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.48	ug/L			12/02/21 17:18	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/02/21 17:18	1
Chloroethane	ND		5.0	0.87	ug/L			12/02/21 17:18	1
Chloroform	ND		5.0	0.54	ug/L			12/02/21 17:18	1
Chloromethane	ND		5.0	0.64	ug/L			12/02/21 17:18	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/02/21 17:18	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/02/21 17:18	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/02/21 17:18	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/02/21 17:18	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/02/21 17:18	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/02/21 17:18	1
Toluene	ND		5.0	0.45	ug/L			12/02/21 17:18	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/02/21 17:18	1
Trichloroethene	ND		5.0	0.60	ug/L			12/02/21 17:18	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/02/21 17:18	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/02/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*68 - 130*		*12/02/21 17:18*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*		*12/02/21 17:18*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*12/02/21 17:18*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/02/21 17:18*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-192936-5	Composite 001-1 to -4	84	91	97	96
480-192936-6	TRIP BLANK	87	92	96	98
LCS 480-607397/6	Lab Control Sample	89	89	97	99
MB 480-607397/8	Method Blank	84	92	96	93

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-192936-5	Composite 001-1 to -4	88	96	50	90	94	34
LCS 480-607671/2-A	Lab Control Sample	96	93	52	87	100	37
MB 480-607671/1-A	Method Blank	78	101	60	93	109	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-607397/8
Matrix: Water
Analysis Batch: 607397

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/02/21 16:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/02/21 16:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/02/21 16:11	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/02/21 16:11	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/02/21 16:11	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/02/21 16:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/02/21 16:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/02/21 16:11	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/02/21 16:11	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/02/21 16:11	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/02/21 16:11	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/02/21 16:11	1
Acrolein	ND		100	17	ug/L			12/02/21 16:11	1
Acrylonitrile	ND		50	1.9	ug/L			12/02/21 16:11	1
Benzene	ND		5.0	0.60	ug/L			12/02/21 16:11	1
Bromoform	ND		5.0	0.47	ug/L			12/02/21 16:11	1
Bromomethane	ND		5.0	1.2	ug/L			12/02/21 16:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/02/21 16:11	1
Chlorobenzene	ND		5.0	0.48	ug/L			12/02/21 16:11	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/02/21 16:11	1
Chloroethane	ND		5.0	0.87	ug/L			12/02/21 16:11	1
Chloroform	ND		5.0	0.54	ug/L			12/02/21 16:11	1
Chloromethane	ND		5.0	0.64	ug/L			12/02/21 16:11	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/02/21 16:11	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/02/21 16:11	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/02/21 16:11	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/02/21 16:11	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/02/21 16:11	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/02/21 16:11	1
Toluene	ND		5.0	0.45	ug/L			12/02/21 16:11	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/02/21 16:11	1
Trichloroethene	ND		5.0	0.60	ug/L			12/02/21 16:11	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/02/21 16:11	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/02/21 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*68 - 130*		*12/02/21 16:11*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*		*12/02/21 16:11*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*12/02/21 16:11*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*12/02/21 16:11*	*1*

Lab Sample ID: LCS 480-607397/6
Matrix: Water
Analysis Batch: 607397

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	52 - 162
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-607397/6
Matrix: Water
Analysis Batch: 607397

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	52 - 150
1,1-Dichloroethane	20.0	19.7		ug/L		99	59 - 155
1,1-Dichloroethene	20.0	20.3		ug/L		102	1 - 234
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	18 - 190
1,2-Dichloroethane	20.0	18.5		ug/L		93	49 - 155
1,2-Dichloropropane	20.0	20.8		ug/L		104	1 - 210
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	59 - 156
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	18 - 190
2-Chloroethyl vinyl ether	20.0	22.0	J	ug/L		110	1 - 305
Benzene	20.0	21.1		ug/L		106	37 - 151
Bromoform	20.0	25.5		ug/L		127	45 - 169
Bromomethane	20.0	18.9		ug/L		95	1 - 242
Carbon tetrachloride	20.0	22.2		ug/L		111	70 - 140
Chlorobenzene	20.0	20.6		ug/L		103	37 - 160
Dibromochloromethane	20.0	23.6		ug/L		118	53 - 149
Chloroethane	20.0	20.7		ug/L		103	14 - 230
Chloroform	20.0	19.4		ug/L		97	51 - 138
Chloromethane	20.0	21.2		ug/L		106	1 - 273
cis-1,3-Dichloropropene	20.0	21.2		ug/L		106	1 - 227
Bromodichloromethane	20.0	20.3		ug/L		102	35 - 155
Ethylbenzene	20.0	20.3		ug/L		101	37 - 162
Methylene Chloride	20.0	20.1		ug/L		101	1 - 221
Tetrachloroethene	20.0	20.5		ug/L		102	64 - 148
Toluene	20.0	20.5		ug/L		102	47 - 150
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	17 - 183
Trichloroethene	20.0	18.7		ug/L		94	71 - 157
Trichlorofluoromethane	20.0	18.2		ug/L		91	17 - 181
Vinyl chloride	20.0	20.0		ug/L		100	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*68 - 130*
4-Bromofluorobenzene (Surr)	*89*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-607671/1-A
Matrix: Water
Analysis Batch: 607836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		12/06/21 10:24	12/07/21 14:10	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		12/06/21 10:24	12/07/21 14:10	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		12/06/21 10:24	12/07/21 14:10	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		12/06/21 10:24	12/07/21 14:10	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-607671/1-A
Matrix: Water
Analysis Batch: 607836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		12/06/21 10:24	12/07/21 14:10	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		12/06/21 10:24	12/07/21 14:10	1
2-Chlorophenol	ND		5.0	0.17	ug/L		12/06/21 10:24	12/07/21 14:10	1
2-Nitrophenol	ND		5.0	0.18	ug/L		12/06/21 10:24	12/07/21 14:10	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/06/21 10:24	12/07/21 14:10	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		12/06/21 10:24	12/07/21 14:10	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		12/06/21 10:24	12/07/21 14:10	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		12/06/21 10:24	12/07/21 14:10	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		12/06/21 10:24	12/07/21 14:10	1
4-Nitrophenol	ND		15	0.49	ug/L		12/06/21 10:24	12/07/21 14:10	1
Acenaphthene	ND		5.0	0.20	ug/L		12/06/21 10:24	12/07/21 14:10	1
Acenaphthylene	ND		5.0	0.22	ug/L		12/06/21 10:24	12/07/21 14:10	1
Anthracene	ND		5.0	0.35	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzidine	ND		80	14	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		12/06/21 10:24	12/07/21 14:10	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		12/06/21 10:24	12/07/21 14:10	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		12/06/21 10:24	12/07/21 14:10	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		12/06/21 10:24	12/07/21 14:10	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		12/06/21 10:24	12/07/21 14:10	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		12/06/21 10:24	12/07/21 14:10	1
Chrysene	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
Decane	ND		10	0.40	ug/L		12/06/21 10:24	12/07/21 14:10	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		12/06/21 10:24	12/07/21 14:10	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		12/06/21 10:24	12/07/21 14:10	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		12/06/21 10:24	12/07/21 14:10	1
Diethyl phthalate	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		12/06/21 10:24	12/07/21 14:10	1
Fluoranthene	ND		5.0	0.40	ug/L		12/06/21 10:24	12/07/21 14:10	1
Fluorene	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		12/06/21 10:24	12/07/21 14:10	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		12/06/21 10:24	12/07/21 14:10	1
Hexachloroethane	ND		5.0	0.15	ug/L		12/06/21 10:24	12/07/21 14:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		12/06/21 10:24	12/07/21 14:10	1
Isophorone	ND		5.0	0.19	ug/L		12/06/21 10:24	12/07/21 14:10	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		12/06/21 10:24	12/07/21 14:10	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		12/06/21 10:24	12/07/21 14:10	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		12/06/21 10:24	12/07/21 14:10	1
Naphthalene	ND		5.0	0.22	ug/L		12/06/21 10:24	12/07/21 14:10	1
Nitrobenzene	ND		5.0	0.20	ug/L		12/06/21 10:24	12/07/21 14:10	1
Pentachlorophenol	ND		10	0.79	ug/L		12/06/21 10:24	12/07/21 14:10	1
Phenanthrene	ND		5.0	0.30	ug/L		12/06/21 10:24	12/07/21 14:10	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-607671/1-A
Matrix: Water
Analysis Batch: 607836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		12/06/21 10:24	12/07/21 14:10	1
Pyrene	ND		5.0	0.35	ug/L		12/06/21 10:24	12/07/21 14:10	1
n-Octadecane	ND		10	0.30	ug/L		12/06/21 10:24	12/07/21 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*52 - 151*	*12/06/21 10:24*	*12/07/21 14:10*	*1*
2-Fluorobiphenyl	*101*		*44 - 120*	*12/06/21 10:24*	*12/07/21 14:10*	*1*
2-Fluorophenol	*60*		*17 - 120*	*12/06/21 10:24*	*12/07/21 14:10*	*1*
Nitrobenzene-d5	*93*		*15 - 314*	*12/06/21 10:24*	*12/07/21 14:10*	*1*
p-Terphenyl-d14	*109*		*22 - 125*	*12/06/21 10:24*	*12/07/21 14:10*	*1*
Phenol-d5	*37*		*8 - 424*	*12/06/21 10:24*	*12/07/21 14:10*	*1*

Lab Sample ID: LCS 480-607671/2-A
Matrix: Water
Analysis Batch: 607836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	40.5		ug/L		81	44 - 142
1,2-Dichlorobenzene	50.0	38.0		ug/L		76	32 - 129
1,3-Dichlorobenzene	50.0	37.1		ug/L		74	1 - 172
1,4-Dichlorobenzene	50.0	37.6		ug/L		75	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	48.4		ug/L		97	36 - 166
2,4,6-Trichlorophenol	50.0	47.2		ug/L		94	37 - 144
2,4-Dichlorophenol	50.0	45.1		ug/L		90	39 - 135
2,4-Dimethylphenol	50.0	43.4		ug/L		87	32 - 120
2,4-Dinitrophenol	100	97.6		ug/L		98	1 - 191
2,4-Dinitrotoluene	50.0	45.9		ug/L		92	39 - 139
2,6-Dinitrotoluene	50.0	48.7		ug/L		97	50 - 158
2-Chloronaphthalene	50.0	43.9		ug/L		88	60 - 120
2-Chlorophenol	50.0	42.4		ug/L		85	23 - 134
2-Nitrophenol	50.0	43.1		ug/L		86	29 - 182
3,3'-Dichlorobenzidine	100	91.6		ug/L		92	1 - 262
4,6-Dinitro-2-methylphenol	100	92.2		ug/L		92	1 - 181
4-Bromophenyl phenyl ether	50.0	48.6		ug/L		97	53 - 127
4-Chloro-3-methylphenol	50.0	45.2		ug/L		90	22 - 147
4-Chlorophenyl phenyl ether	50.0	46.3		ug/L		93	25 - 158
4-Nitrophenol	100	41.2		ug/L		41	1 - 132
Acenaphthene	50.0	45.8		ug/L		92	47 - 145
Acenaphthylene	50.0	43.9		ug/L		88	33 - 145
Anthracene	50.0	49.3		ug/L		99	27 - 133
Benzidine	100	58.3	J	ug/L		58	1 - 120
Benzo[a]anthracene	50.0	50.4		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	44.4		ug/L		89	17 - 163
Benzo[b]fluoranthene	50.0	50.9		ug/L		102	24 - 159
Benzo[g,h,i]perylene	50.0	49.2		ug/L		98	1 - 219
Benzo[k]fluoranthene	50.0	47.7		ug/L		95	11 - 162
Bis(2-chloroethoxy)methane	50.0	45.5		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	50.0	44.4		ug/L		89	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-607671/2-A
Matrix: Water
Analysis Batch: 607836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	50.0		ug/L		100	8 - 158
Butyl benzyl phthalate	50.0	48.2		ug/L		96	1 - 152
Chrysene	50.0	49.4		ug/L		99	17 - 168
Di-n-butyl phthalate	50.0	48.3		ug/L		97	1 - 120
Di-n-octyl phthalate	50.0	51.4		ug/L		103	4 - 146
Dibenz(a,h)anthracene	50.0	49.5		ug/L		99	1 - 227
Diethyl phthalate	50.0	47.6		ug/L		95	1 - 120
Dimethyl phthalate	50.0	48.0		ug/L		96	1 - 120
Fluoranthene	50.0	49.1		ug/L		98	26 - 137
Fluorene	50.0	46.1		ug/L		92	59 - 121
Hexachlorobenzene	50.0	48.4		ug/L		97	1 - 152
Hexachlorocyclopentadiene	50.0	36.6		ug/L		73	5 - 120
Hexachloroethane	50.0	33.4		ug/L		67	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	49.1		ug/L		98	1 - 171
Isophorone	50.0	46.4		ug/L		93	21 - 196
N-Nitrosodi-n-propylamine	50.0	48.1		ug/L		96	1 - 230
N-Nitrosodiphenylamine	50.0	49.1		ug/L		98	54 - 125
Naphthalene	50.0	42.5		ug/L		85	21 - 133
Nitrobenzene	50.0	44.6		ug/L		89	35 - 180
Pentachlorophenol	100	89.0		ug/L		89	14 - 176
Phenanthrene	50.0	48.5		ug/L		97	54 - 120
Phenol	50.0	21.4		ug/L		43	5 - 120
Pyrene	50.0	50.1		ug/L		100	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*96*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*87*		*15 - 314*
p-Terphenyl-d14	*100*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-607443/1-A
Matrix: Water
Analysis Batch: 607663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00738	J	0.010	0.0015	mg/L		12/03/21 08:55	12/03/21 20:28	1

Lab Sample ID: LCS 480-607443/2-A
Matrix: Water
Analysis Batch: 607663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.203		mg/L		101	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-607381/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607432
Prep Batch: 607381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		12/02/21 12:42	12/02/21 15:21	1

Lab Sample ID: LCS 480-607381/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607432
Prep Batch: 607381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00702		mg/L		105	85 - 115

Lab Sample ID: 480-192936-5 MS
Client Sample ID: Composite 001-1 to -4
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607432
Prep Batch: 607381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00698		mg/L		105	70 - 130

Lab Sample ID: 480-192936-5 MSD
Client Sample ID: Composite 001-1 to -4
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607432
Prep Batch: 607381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00707		mg/L		106	70 - 130	1	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-607390/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607418
Prep Batch: 607390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		12/02/21 12:47	12/02/21 13:48	1

Lab Sample ID: LCS 480-607390/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607418
Prep Batch: 607390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.410		mg/L		103	90 - 110

Lab Sample ID: LCS 480-607390/3-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607418
Prep Batch: 607390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-607546/1
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-192936-5 DU
Client Sample ID: Composite 001-1 to -4
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 607546

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.1	HF		7.1		SU				0.3	5
Temperature	20.1	HF		19.9		Degrees C				1	10

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

GC/MS VOA

Analysis Batch: 607397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	624.1	
480-192936-6	TRIP BLANK	Total/NA	Water	624.1	
MB 480-607397/8	Method Blank	Total/NA	Water	624.1	
LCS 480-607397/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 607671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	625	
MB 480-607671/1-A	Method Blank	Total/NA	Water	625	
LCS 480-607671/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 607836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	625.1	607671
MB 480-607671/1-A	Method Blank	Total/NA	Water	625.1	607671
LCS 480-607671/2-A	Lab Control Sample	Total/NA	Water	625.1	607671

Metals

Prep Batch: 607381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	245.1	
MB 480-607381/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-607381/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-192936-5 MS	Composite 001-1 to -4	Total/NA	Water	245.1	
480-192936-5 MSD	Composite 001-1 to -4	Total/NA	Water	245.1	

Analysis Batch: 607432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	245.1	607381
MB 480-607381/1-A	Method Blank	Total/NA	Water	245.1	607381
LCS 480-607381/2-A	Lab Control Sample	Total/NA	Water	245.1	607381
480-192936-5 MS	Composite 001-1 to -4	Total/NA	Water	245.1	607381
480-192936-5 MSD	Composite 001-1 to -4	Total/NA	Water	245.1	607381

Prep Batch: 607443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	200.7	
MB 480-607443/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-607443/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 607663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	200.7 Rev 4.4	607443
MB 480-607443/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	607443
LCS 480-607443/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	607443

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

General Chemistry

Prep Batch: 607390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	Distill/CN	
MB 480-607390/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-607390/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-607390/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 607418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	335.4	607390
MB 480-607390/1-A	Method Blank	Total/NA	Water	335.4	607390
LCS 480-607390/2-A	Lab Control Sample	Total/NA	Water	335.4	607390
LCS 480-607390/3-A	Lab Control Sample	Total/NA	Water	335.4	607390

Analysis Batch: 607546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192936-5	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	
LCS 480-607546/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-192936-5 DU	Composite 001-1 to -4	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: Composite 001-1 to -4
Lab Sample ID: 480-192936-5

Date Collected: 12/01/21 13:10
Matrix: Water
Date Received: 12/01/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	607397	12/02/21 16:54	ATG	TAL BUF
Total/NA	Prep	625			607671	12/06/21 10:24	JMP	TAL BUF
Total/NA	Analysis	625.1		1	607836	12/07/21 16:33	PJQ	TAL BUF
Total/NA	Prep	200.7			607443	12/03/21 08:55	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	607663	12/03/21 20:43	LMH	TAL BUF
Total/NA	Prep	245.1			607381	12/02/21 12:42	BMB	TAL BUF
Total/NA	Analysis	245.1		1	607432	12/02/21 15:23	BMB	TAL BUF
Total/NA	Prep	Distill/CN			607390	12/02/21 12:47	RJM	TAL BUF
Total/NA	Analysis	335.4		1	607418	12/02/21 14:15	RJM	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	607546	12/03/21 12:29	DLG	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-192936-6

Date Collected: 12/01/21 00:00
Matrix: Water
Date Received: 12/01/21 13:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	607397	12/02/21 17:18	ATG	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-192936-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192936-5	Composite 001-1 to -4	Water	12/01/21 13:10	12/01/21 13:27
480-192936-6	TRIP BLANK	Water	12/01/21 00:00	12/01/21 13:27

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-163857-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	SSOW#:	

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2
D - Nitric Acid P - Na2O4S
E - NaHSO4
F - MeOH



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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Num	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	12/1/21	0710	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2	↓	0910	↓	↓			X	X	X	X	X		
001-3		1110					X	X	X	X	X		
001-4		1310					X	X	X	X	X		
Trip Blank	—	—	↓	↓							X		Short Hold Time

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	Dan Gutkowski	12/1/21 / 1327	Arcadis	Christian Ciccolo	12/1/21 1327	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-192936-1

Login Number: 192936

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: March 30, 2022
Our Ref: 30125855
Subject: **Discharge Monitoring Report – First Quarter 2022**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this first quarter 2022 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period January 1 through March 31, 2022. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 131,413 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 12/27/2021 to 3/28/2022). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the first quarter 2022.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the January, February, and March monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

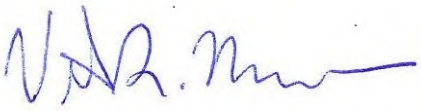
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In January, February, and March 2022, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
March 30, 2022

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

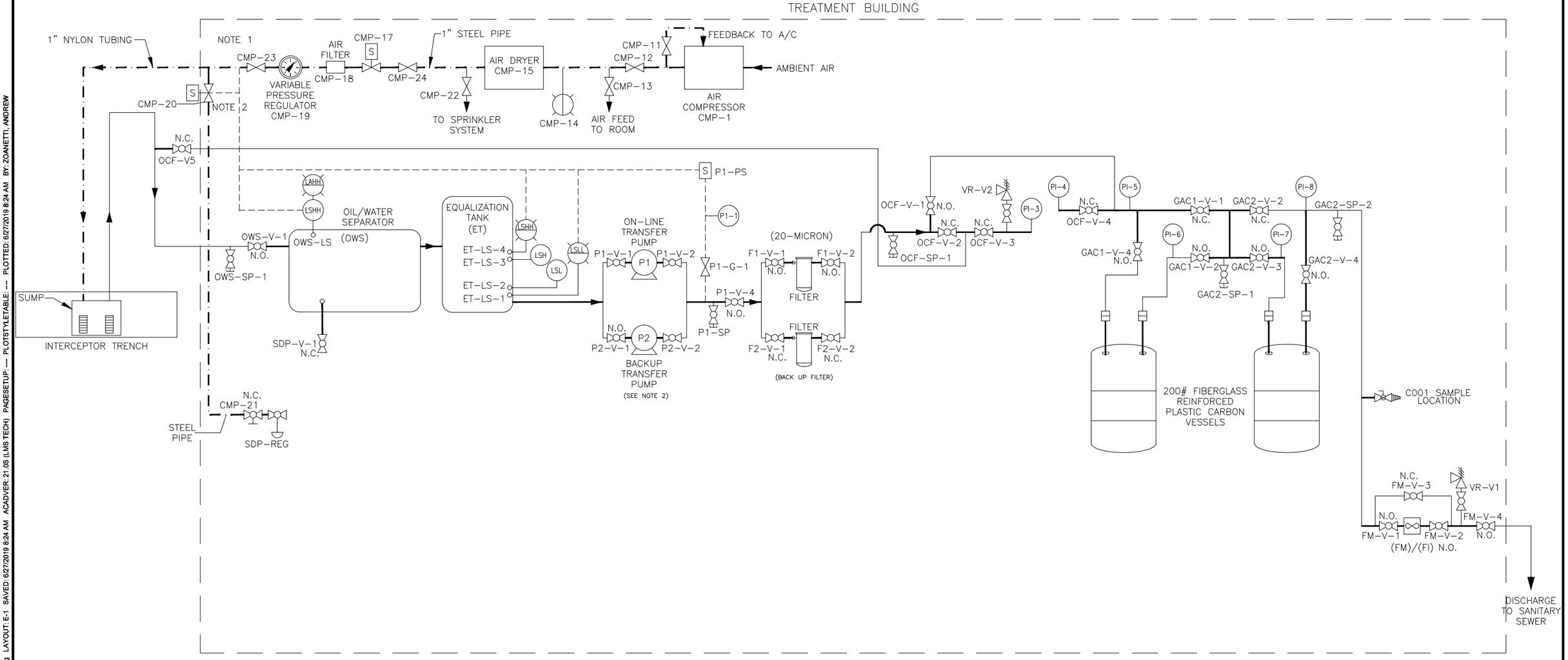
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

- A Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	1/3/22	→	→	→	JT6
Sample Time	0715	0915	1115	1315	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	130F Clear	130F Sunny	170F Sunny	180F Sunny	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gothowski
Sample Technician

1/3/22
Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	2/3/22	→	→	→	JTG
Sample Time	0705	0905	1105	1305	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	29°F Snow	28°F Snow	28°F Snow	28°F Snow	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 2/3/22

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	3/2/22	→	→	→	JTG
Sample Time	0700	0960	1100	1300	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	27°F Cloudy	29°F Cloudy	34°F sun/clouds	36°F sun/clouds	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski — Sample Technician

3/2/22 — Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	12/27/2021	1/3/2022	1/10/2022	1/18/2022	1/25/2022	2/3/2022	2/7/2022
Totalizer	gal	NA	716,345	726,954	738,133	751,375	763,947	780,102	786,402
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	2.27E-03	NS	NS	NS	2.54E-03	NS
Total VOCs	mg/L	NA	NS	ND *+	NS	NS	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND *1	NS	NS	NS	ND *1	NS
pH	SU	5.0-12.0	NS	7.2 HF	NS	NS	NS	7.2 HF	NS
Total Daily Flow	gal	14,400	-	1,516	1,597	1,655	1,796	1,795	1,575

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	2/14/2022	2/21/2022	3/2/2022	3/7/2022	3/14/2022	3/21/2022	3/28/2022
Totalizer	gal	NA	795,333	805,096	817,222	818,319	827,454	837,679	847,758
Total Mercury	lbs	0.00001**	NS	NS	ND	NS	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	ND	NS	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	1.46E-03	NS	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	ND	NS	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	ND *1	NS	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	7.0 HF	NS	NS	NS	NS
Total Daily Flow	gal	14,400	1,276	1,395	1,347	219	1,305	1,461	1,440

Notes:

HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
*1 - LCS/LCSD RPD exceeds control limits.
*+ - LCS and/or LCSD is outside acceptance limits, high biased.
NA - Not Applicable
ND - Not Detected at the reporting limit
NS - Not Sampled
gal - Gallons
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-193874-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
1/18/2022 4:07:37 PM
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

Designee for

Steve Hartmann, Service Center Manager
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
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
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
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

Job ID: 480-193874-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-193874-1

Comments
No additional comments.

Receipt
The samples were received on 1/3/2022 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 01/04/2022 as requested by the client: LAB COMP (480-193874-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The laboratory control sample (LCS) for analytical batch 480-610733 recovered outside control limits for the following analyte: Acrolein. This analytes was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-610733 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (480-193874-5) and LAB COMP (480-193874-6).

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-610782 and analytical batch 480-610830 recovered outside control limits for the following analyte: Benzidine.

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

Metals
Method 200.7: The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: LAB COMP (480-193874-6). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. The sample was preserved 1/5/22 at 1540 and the second pH check was performed 1/7/22 at 1245.

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

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: LAB COMP (480-193874-6).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 01-04-2021 as requested on the chain-of-custody: LAB COMP (480-193874-6).

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
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-193874-5

No Detections.

Client Sample ID: LAB COMP — Lab Sample ID: 480-193874-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.18	F1 B	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-193874-5

Date Collected: 01/03/22 00:00
Matrix: Water
Date Received: 01/03/22 13:40

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/04/22 15:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/04/22 15:35	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/04/22 15:35	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/04/22 15:35	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/04/22 15:35	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/04/22 15:35	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/04/22 15:35	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/04/22 15:35	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/04/22 15:35	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/04/22 15:35	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/04/22 15:35	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/04/22 15:35	1
Acrolein	ND	*+	100	17	ug/L			01/04/22 15:35	1
Acrylonitrile	ND		50	1.9	ug/L			01/04/22 15:35	1
Benzene	ND		5.0	0.60	ug/L			01/04/22 15:35	1
Bromoform	ND		5.0	0.47	ug/L			01/04/22 15:35	1
Bromomethane	ND		5.0	1.2	ug/L			01/04/22 15:35	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/04/22 15:35	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/04/22 15:35	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/04/22 15:35	1
Chloroethane	ND		5.0	0.87	ug/L			01/04/22 15:35	1
Chloroform	ND		5.0	0.54	ug/L			01/04/22 15:35	1
Chloromethane	ND		5.0	0.64	ug/L			01/04/22 15:35	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/04/22 15:35	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/04/22 15:35	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/04/22 15:35	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/04/22 15:35	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/04/22 15:35	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/04/22 15:35	1
Toluene	ND		5.0	0.45	ug/L			01/04/22 15:35	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/04/22 15:35	1
Trichloroethene	ND		5.0	0.60	ug/L			01/04/22 15:35	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/04/22 15:35	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/04/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*68 - 130*		*01/04/22 15:35*	*1*
4-Bromofluorobenzene (Surr)	*113*		*76 - 123*		*01/04/22 15:35*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*01/04/22 15:35*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*01/04/22 15:35*	*1*

Client Sample ID: LAB COMP
Lab Sample ID: 480-193874-6

Date Collected: 01/03/22 13:15
Matrix: Water
Date Received: 01/03/22 13:40

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/04/22 16:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/04/22 16:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/04/22 16:00	1

Client Sample ID: LAB COMP
Lab Sample ID: 480-193874-6
Date Collected: 01/03/22 13:15
Matrix: Water
Date Received: 01/03/22 13:40

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/04/22 16:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/04/22 16:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/04/22 16:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/04/22 16:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/04/22 16:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/04/22 16:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/04/22 16:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/04/22 16:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/04/22 16:00	1
Acrolein	ND	*+	100	17	ug/L			01/04/22 16:00	1
Acrylonitrile	ND		50	1.9	ug/L			01/04/22 16:00	1
Benzene	ND		5.0	0.60	ug/L			01/04/22 16:00	1
Bromoform	ND		5.0	0.47	ug/L			01/04/22 16:00	1
Bromomethane	ND		5.0	1.2	ug/L			01/04/22 16:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/04/22 16:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/04/22 16:00	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/04/22 16:00	1
Chloroethane	ND		5.0	0.87	ug/L			01/04/22 16:00	1
Chloroform	ND		5.0	0.54	ug/L			01/04/22 16:00	1
Chloromethane	ND		5.0	0.64	ug/L			01/04/22 16:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/04/22 16:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/04/22 16:00	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/04/22 16:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/04/22 16:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/04/22 16:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/04/22 16:00	1
Toluene	ND		5.0	0.45	ug/L			01/04/22 16:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/04/22 16:00	1
Trichloroethene	ND		5.0	0.60	ug/L			01/04/22 16:00	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/04/22 16:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/04/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*		*01/04/22 16:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*01/04/22 16:00*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*01/04/22 16:00*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*01/04/22 16:00*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		01/04/22 15:48	01/05/22 12:36	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		01/04/22 15:48	01/05/22 12:36	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		01/04/22 15:48	01/05/22 12:36	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		01/04/22 15:48	01/05/22 12:36	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		01/04/22 15:48	01/05/22 12:36	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-193874-1

Client Sample ID: LAB COMP
Date Collected: 01/03/22 13:15
Date Received: 01/03/22 13:40

Lab Sample ID: 480-193874-6
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.40	ug/L		01/04/22 15:48	01/05/22 12:36	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 12:36	1
2-Chlorophenol	ND		5.0	0.17	ug/L		01/04/22 15:48	01/05/22 12:36	1
2-Nitrophenol	ND		5.0	0.18	ug/L		01/04/22 15:48	01/05/22 12:36	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 12:36	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		01/04/22 15:48	01/05/22 12:36	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 12:36	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 12:36	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 12:36	1
4-Nitrophenol	ND		15	0.49	ug/L		01/04/22 15:48	01/05/22 12:36	1
Acenaphthene	ND		5.0	0.20	ug/L		01/04/22 15:48	01/05/22 12:36	1
Acenaphthylene	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 12:36	1
Anthracene	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzidine	ND	*1	80	14	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 12:36	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 12:36	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 12:36	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 12:36	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		01/04/22 15:48	01/05/22 12:36	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 12:36	1
Chrysene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
Decane	ND		10	0.40	ug/L		01/04/22 15:48	01/05/22 12:36	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 12:36	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 12:36	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 12:36	1
Diethyl phthalate	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 12:36	1
Fluoranthene	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 12:36	1
Fluorene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 12:36	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		01/04/22 15:48	01/05/22 12:36	1
Hexachloroethane	ND		5.0	0.15	ug/L		01/04/22 15:48	01/05/22 12:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 12:36	1
Isophorone	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 12:36	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 12:36	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		01/04/22 15:48	01/05/22 12:36	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		01/04/22 15:48	01/05/22 12:36	1
Naphthalene	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 12:36	1
Nitrobenzene	ND		5.0	0.20	ug/L		01/04/22 15:48	01/05/22 12:36	1
Pentachlorophenol	ND		10	0.79	ug/L		01/04/22 15:48	01/05/22 12:36	1
Phenanthrene	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 12:36	1
Phenol	ND		5.0	0.088	ug/L		01/04/22 15:48	01/05/22 12:36	1
Pyrene	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 12:36	1
n-Octadecane	ND		10	0.30	ug/L		01/04/22 15:48	01/05/22 12:36	1

Client Sample ID: LAB COMP
Lab Sample ID: 480-193874-6

Date Collected: 01/03/22 13:15
Matrix: Water
Date Received: 01/03/22 13:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*52 - 151*	*01/04/22 15:48*	*01/05/22 12:36*	*1*
2-Fluorobiphenyl	*106*		*44 - 120*	*01/04/22 15:48*	*01/05/22 12:36*	*1*
2-Fluorophenol	*50*		*17 - 120*	*01/04/22 15:48*	*01/05/22 12:36*	*1*
Nitrobenzene-d5	*93*		*15 - 314*	*01/04/22 15:48*	*01/05/22 12:36*	*1*
p-Terphenyl-d14	*101*		*22 - 125*	*01/04/22 15:48*	*01/05/22 12:36*	*1*
Phenol-d5	*36*		*8 - 424*	*01/04/22 15:48*	*01/05/22 12:36*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		01/07/22 08:19	01/10/22 14:03	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		01/07/22 11:55	01/07/22 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.18**	**F1 B**	0.010	0.0050	mg/L		01/13/22 11:10	01/13/22 12:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.1	0.1	SU			01/05/22 12:27	1
Temperature	**22.2**	**HF**	0.001	0.001	Degrees C			01/05/22 12:27	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-193874-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-193874-5	TRIP BLANK	87	113	97	100
480-193874-6	LAB COMP	92	96	99	98
LCS 480-610733/6	Lab Control Sample	99	98	98	107
MB 480-610733/8	Method Blank	93	118	94	106

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-193874-6	LAB COMP	98	106	50	93	101	36
LCS 480-610782/2-A	Lab Control Sample	112	98	45	86	102	32
LCSD 480-610782/3-A	Lab Control Sample Dup	108	98	44	85	94	31
MB 480-610782/1-A	Method Blank	86	100	47	86	98	32

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-193874-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-610733/8
Matrix: Water
Analysis Batch: 610733

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/04/22 15:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/04/22 15:03	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/04/22 15:03	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/04/22 15:03	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/04/22 15:03	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/04/22 15:03	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/04/22 15:03	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/04/22 15:03	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/04/22 15:03	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/04/22 15:03	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/04/22 15:03	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/04/22 15:03	1
Acrolein	ND		100	17	ug/L			01/04/22 15:03	1
Acrylonitrile	ND		50	1.9	ug/L			01/04/22 15:03	1
Benzene	ND		5.0	0.60	ug/L			01/04/22 15:03	1
Bromoform	ND		5.0	0.47	ug/L			01/04/22 15:03	1
Bromomethane	ND		5.0	1.2	ug/L			01/04/22 15:03	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/04/22 15:03	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/04/22 15:03	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/04/22 15:03	1
Chloroethane	ND		5.0	0.87	ug/L			01/04/22 15:03	1
Chloroform	ND		5.0	0.54	ug/L			01/04/22 15:03	1
Chloromethane	ND		5.0	0.64	ug/L			01/04/22 15:03	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/04/22 15:03	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/04/22 15:03	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/04/22 15:03	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/04/22 15:03	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/04/22 15:03	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/04/22 15:03	1
Toluene	ND		5.0	0.45	ug/L			01/04/22 15:03	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/04/22 15:03	1
Trichloroethene	ND		5.0	0.60	ug/L			01/04/22 15:03	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/04/22 15:03	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/04/22 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*01/04/22 15:03*	*1*
4-Bromofluorobenzene (Surr)	*118*		*76 - 123*		*01/04/22 15:03*	*1*
Toluene-d8 (Surr)	*94*		*77 - 120*		*01/04/22 15:03*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*01/04/22 15:03*	*1*

Lab Sample ID: LCS 480-610733/6
Matrix: Water
Analysis Batch: 610733

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			20.0	20.3		ug/L		102	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	20.4		ug/L		102	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-610733/6
Matrix: Water
Analysis Batch: 610733

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	52 - 150
1,1-Dichloroethane	20.0	23.3		ug/L		116	59 - 155
1,1-Dichloroethene	20.0	21.6		ug/L		108	1 - 234
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	18 - 190
1,2-Dichloroethane	20.0	20.2		ug/L		101	49 - 155
1,2-Dichloropropane	20.0	20.5		ug/L		102	1 - 210
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	59 - 156
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	18 - 190
2-Chloroethyl vinyl ether	20.0	18.9	J	ug/L		95	1 - 305
Benzene	20.0	23.0		ug/L		115	37 - 151
Bromoform	20.0	27.9		ug/L		140	45 - 169
Bromomethane	20.0	19.5		ug/L		98	1 - 242
Carbon tetrachloride	20.0	23.9		ug/L		119	70 - 140
Chlorobenzene	20.0	21.0		ug/L		105	37 - 160
Dibromochloromethane	20.0	23.8		ug/L		119	53 - 149
Chloroethane	20.0	23.1		ug/L		115	14 - 230
Chloroform	20.0	20.1		ug/L		100	51 - 138
Chloromethane	20.0	23.4		ug/L		117	1 - 273
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	1 - 227
Bromodichloromethane	20.0	20.4		ug/L		102	35 - 155
Ethylbenzene	20.0	20.1		ug/L		100	37 - 162
Methylene Chloride	20.0	23.8		ug/L		119	1 - 221
Tetrachloroethene	20.0	20.9		ug/L		104	64 - 148
Toluene	20.0	20.0		ug/L		100	47 - 150
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	17 - 183
Trichloroethene	20.0	20.3		ug/L		101	71 - 157
Trichlorofluoromethane	20.0	17.9		ug/L		90	17 - 181
Vinyl chloride	20.0	22.6		ug/L		113	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-610782/1-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		01/04/22 15:48	01/05/22 10:58	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		01/04/22 15:48	01/05/22 10:58	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		01/04/22 15:48	01/05/22 10:58	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		01/04/22 15:48	01/05/22 10:58	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610782/1-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		01/04/22 15:48	01/05/22 10:58	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 10:58	1
2-Chlorophenol	ND		5.0	0.17	ug/L		01/04/22 15:48	01/05/22 10:58	1
2-Nitrophenol	ND		5.0	0.18	ug/L		01/04/22 15:48	01/05/22 10:58	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 10:58	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		01/04/22 15:48	01/05/22 10:58	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 10:58	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 10:58	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 10:58	1
4-Nitrophenol	ND		15	0.49	ug/L		01/04/22 15:48	01/05/22 10:58	1
Acenaphthene	ND		5.0	0.20	ug/L		01/04/22 15:48	01/05/22 10:58	1
Acenaphthylene	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 10:58	1
Anthracene	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzidine	ND		80	14	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 10:58	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		01/04/22 15:48	01/05/22 10:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 10:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 10:58	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		01/04/22 15:48	01/05/22 10:58	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		01/04/22 15:48	01/05/22 10:58	1
Chrysene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
Decane	ND		10	0.40	ug/L		01/04/22 15:48	01/05/22 10:58	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 10:58	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 10:58	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 10:58	1
Diethyl phthalate	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		01/04/22 15:48	01/05/22 10:58	1
Fluoranthene	ND		5.0	0.40	ug/L		01/04/22 15:48	01/05/22 10:58	1
Fluorene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		01/04/22 15:48	01/05/22 10:58	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		01/04/22 15:48	01/05/22 10:58	1
Hexachloroethane	ND		5.0	0.15	ug/L		01/04/22 15:48	01/05/22 10:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		01/04/22 15:48	01/05/22 10:58	1
Isophorone	ND		5.0	0.19	ug/L		01/04/22 15:48	01/05/22 10:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 10:58	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		01/04/22 15:48	01/05/22 10:58	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		01/04/22 15:48	01/05/22 10:58	1
Naphthalene	ND		5.0	0.22	ug/L		01/04/22 15:48	01/05/22 10:58	1
Nitrobenzene	ND		5.0	0.20	ug/L		01/04/22 15:48	01/05/22 10:58	1
Pentachlorophenol	ND		10	0.79	ug/L		01/04/22 15:48	01/05/22 10:58	1
Phenanthrene	ND		5.0	0.30	ug/L		01/04/22 15:48	01/05/22 10:58	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-610782/1-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		01/04/22 15:48	01/05/22 10:58	1
Pyrene	ND		5.0	0.35	ug/L		01/04/22 15:48	01/05/22 10:58	1
n-Octadecane	ND		10	0.30	ug/L		01/04/22 15:48	01/05/22 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*52 - 151*	*01/04/22 15:48*	*01/05/22 10:58*	*1*
2-Fluorobiphenyl	*100*		*44 - 120*	*01/04/22 15:48*	*01/05/22 10:58*	*1*
2-Fluorophenol	*47*		*17 - 120*	*01/04/22 15:48*	*01/05/22 10:58*	*1*
Nitrobenzene-d5	*86*		*15 - 314*	*01/04/22 15:48*	*01/05/22 10:58*	*1*
p-Terphenyl-d14	*98*		*22 - 125*	*01/04/22 15:48*	*01/05/22 10:58*	*1*
Phenol-d5	*32*		*8 - 424*	*01/04/22 15:48*	*01/05/22 10:58*	*1*

Lab Sample ID: LCS 480-610782/2-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	47.1		ug/L		94	44 - 142
1,2-Dichlorobenzene	50.0	44.9		ug/L		90	32 - 129
1,3-Dichlorobenzene	50.0	43.7		ug/L		87	1 - 172
1,4-Dichlorobenzene	50.0	43.5		ug/L		87	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	42.0		ug/L		84	36 - 166
2,4,6-Trichlorophenol	50.0	49.9		ug/L		100	37 - 144
2,4-Dichlorophenol	50.0	48.4		ug/L		97	39 - 135
2,4-Dimethylphenol	50.0	45.2		ug/L		90	32 - 120
2,4-Dinitrophenol	100	115		ug/L		115	1 - 191
2,4-Dinitrotoluene	50.0	53.6		ug/L		107	39 - 139
2,6-Dinitrotoluene	50.0	50.1		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	47.3		ug/L		95	60 - 120
2-Chlorophenol	50.0	39.5		ug/L		79	23 - 134
2-Nitrophenol	50.0	48.0		ug/L		96	29 - 182
3,3'-Dichlorobenzidine	100	107		ug/L		107	1 - 262
4,6-Dinitro-2-methylphenol	100	128		ug/L		128	1 - 181
4-Bromophenyl phenyl ether	50.0	52.5		ug/L		105	53 - 127
4-Chloro-3-methylphenol	50.0	46.5		ug/L		93	22 - 147
4-Chlorophenyl phenyl ether	50.0	51.4		ug/L		103	25 - 158
4-Nitrophenol	100	38.4		ug/L		38	1 - 132
Acenaphthene	50.0	49.4		ug/L		99	47 - 145
Acenaphthylene	50.0	46.4		ug/L		93	33 - 145
Anthracene	50.0	51.8		ug/L		104	27 - 133
Benzidine	100	66.6	J	ug/L		67	1 - 120
Benzo[a]anthracene	50.0	53.2		ug/L		106	33 - 143
Benzo[a]pyrene	50.0	48.0		ug/L		96	17 - 163
Benzo[b]fluoranthene	50.0	53.4		ug/L		107	24 - 159
Benzo[g,h,i]perylene	50.0	52.2		ug/L		104	1 - 219
Benzo[k]fluoranthene	50.0	52.9		ug/L		106	11 - 162
Bis(2-chloroethoxy)methane	50.0	45.6		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	50.0	42.8		ug/L		86	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-610782/2-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	51.7		ug/L		103	8 - 158
Butyl benzyl phthalate	50.0	52.1		ug/L		104	1 - 152
Chrysene	50.0	50.0		ug/L		100	17 - 168
Di-n-butyl phthalate	50.0	53.2		ug/L		106	1 - 120
Di-n-octyl phthalate	50.0	51.7		ug/L		103	4 - 146
Dibenz(a,h)anthracene	50.0	54.2		ug/L		108	1 - 227
Diethyl phthalate	50.0	51.4		ug/L		103	1 - 120
Dimethyl phthalate	50.0	50.9		ug/L		102	1 - 120
Fluoranthene	50.0	53.6		ug/L		107	26 - 137
Fluorene	50.0	50.7		ug/L		101	59 - 121
Hexachlorobenzene	50.0	52.8		ug/L		106	1 - 152
Hexachlorocyclopentadiene	50.0	37.6		ug/L		75	5 - 120
Hexachloroethane	50.0	42.5		ug/L		85	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.0		ug/L		106	1 - 171
Isophorone	50.0	46.0		ug/L		92	21 - 196
N-Nitrosodi-n-propylamine	50.0	44.8		ug/L		90	1 - 230
N-Nitrosodiphenylamine	50.0	51.6		ug/L		103	54 - 125
Naphthalene	50.0	46.6		ug/L		93	21 - 133
Nitrobenzene	50.0	43.1		ug/L		86	35 - 180
Pentachlorophenol	100	108		ug/L		108	14 - 176
Phenanthrene	50.0	51.0		ug/L		102	54 - 120
Phenol	50.0	18.1		ug/L		36	5 - 120
Pyrene	50.0	51.3		ug/L		103	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*112*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol	*45*		*17 - 120*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*102*		*22 - 125*
Phenol-d5	*32*		*8 - 424*

Lab Sample ID: LCSD 480-610782/3-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	47.4		ug/L		95	44 - 142	1	34
1,2-Dichlorobenzene	50.0	43.9		ug/L		88	32 - 129	2	38
1,3-Dichlorobenzene	50.0	43.4		ug/L		87	1 - 172	1	37
1,4-Dichlorobenzene	50.0	42.6		ug/L		85	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	50.0	40.2		ug/L		80	36 - 166	4	36
2,4,6-Trichlorophenol	50.0	48.2		ug/L		96	37 - 144	4	20
2,4-Dichlorophenol	50.0	44.7		ug/L		89	39 - 135	8	23
2,4-Dimethylphenol	50.0	41.9		ug/L		84	32 - 120	7	18
2,4-Dinitrophenol	100	109		ug/L		109	1 - 191	5	29
2,4-Dinitrotoluene	50.0	51.1		ug/L		102	39 - 139	5	20
2,6-Dinitrotoluene	50.0	49.0		ug/L		98	50 - 158	2	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-610782/3-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610782

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	46.8		ug/L		94	60 - 120	1	30
2-Chlorophenol			50.0	37.2		ug/L		74	23 - 134	6	26
2-Nitrophenol			50.0	46.8		ug/L		94	29 - 182	3	28
3,3'-Dichlorobenzidine			100	99.2		ug/L		99	1 - 262	7	31
4,6-Dinitro-2-methylphenol			100	122		ug/L		122	1 - 181	4	30
4-Bromophenyl phenyl ether			50.0	51.1		ug/L		102	53 - 127	3	16
4-Chloro-3-methylphenol			50.0	42.7		ug/L		85	22 - 147	9	16
4-Chlorophenyl phenyl ether			50.0	49.6		ug/L		99	25 - 158	4	15
4-Nitrophenol			100	37.8		ug/L		38	1 - 132	2	24
Acenaphthene			50.0	47.9		ug/L		96	47 - 145	3	25
Acenaphthylene			50.0	45.2		ug/L		90	33 - 145	3	22
Anthracene			50.0	50.2		ug/L		100	27 - 133	3	15
Benzidine			100	32.1	J *1	ug/L		32	1 - 120	70	50
Benzo[a]anthracene			50.0	50.1		ug/L		100	33 - 143	6	15
Benzo[a]pyrene			50.0	45.4		ug/L		91	17 - 163	6	15
Benzo[b]fluoranthene			50.0	49.1		ug/L		98	24 - 159	8	17
Benzo[g,h,i]perylene			50.0	50.4		ug/L		101	1 - 219	4	19
Benzo[k]fluoranthene			50.0	52.9		ug/L		106	11 - 162	0	19
Bis(2-chloroethoxy)methane			50.0	44.8		ug/L		90	33 - 184	2	23
Bis(2-chloroethyl)ether			50.0	42.4		ug/L		85	12 - 158	1	33
Bis(2-ethylhexyl) phthalate			50.0	49.1		ug/L		98	8 - 158	5	15
Butyl benzyl phthalate			50.0	48.6		ug/L		97	1 - 152	7	15
Chrysene			50.0	48.2		ug/L		96	17 - 168	4	15
Di-n-butyl phthalate			50.0	50.8		ug/L		102	1 - 120	5	15
Di-n-octyl phthalate			50.0	49.2		ug/L		98	4 - 146	5	15
Dibenz(a,h)anthracene			50.0	52.3		ug/L		105	1 - 227	4	18
Diethyl phthalate			50.0	49.4		ug/L		99	1 - 120	4	15
Dimethyl phthalate			50.0	48.9		ug/L		98	1 - 120	4	15
Fluoranthene			50.0	52.6		ug/L		105	26 - 137	2	15
Fluorene			50.0	50.0		ug/L		100	59 - 121	2	18
Hexachlorobenzene			50.0	51.8		ug/L		104	1 - 152	2	15
Hexachlorocyclopentadiene			50.0	36.6		ug/L		73	5 - 120	3	50
Hexachloroethane			50.0	42.3		ug/L		85	40 - 120	0	43
Indeno[1,2,3-cd]pyrene			50.0	50.5		ug/L		101	1 - 171	5	17
Isophorone			50.0	45.1		ug/L		90	21 - 196	2	21
N-Nitrosodi-n-propylamine			50.0	44.1		ug/L		88	1 - 230	2	23
N-Nitrosodiphenylamine			50.0	50.5		ug/L		101	54 - 125	2	15
Naphthalene			50.0	46.0		ug/L		92	21 - 133	1	31
Nitrobenzene			50.0	43.0		ug/L		86	35 - 180	0	27
Pentachlorophenol			100	101		ug/L		101	14 - 176	6	21
Phenanthrene			50.0	49.8		ug/L		100	54 - 120	2	16
Phenol			50.0	18.2		ug/L		36	5 - 120	0	36
Pyrene			50.0	48.8		ug/L		98	52 - 120	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*108*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol	*44*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-610782/3-A
Matrix: Water
Analysis Batch: 610830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 610782

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*15 - 314*
p-Terphenyl-d14	*94*		*22 - 125*
Phenol-d5	*31*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-611004/1-A
Matrix: Water
Analysis Batch: 611332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		01/07/22 08:19	01/10/22 13:45	1

Lab Sample ID: LCS 480-611004/2-A
Matrix: Water
Analysis Batch: 611332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.205		mg/L		103	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-611072/1-A
Matrix: Water
Analysis Batch: 611132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		01/07/22 11:55	01/07/22 15:15	1

Lab Sample ID: LCS 480-611072/2-A
Matrix: Water
Analysis Batch: 611132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00730		mg/L		109	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-611656/1-A
Matrix: Water
Analysis Batch: 611678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00750	J	0.010	0.0050	mg/L		01/13/22 11:10	01/13/22 11:59	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-611656/2-A
Matrix: Water
Analysis Batch: 611678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.408		mg/L		102	90 - 110

Lab Sample ID: LCS 480-611656/3-A
Matrix: Water
Analysis Batch: 611678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Lab Sample ID: 480-193874-6 MS
Matrix: Water
Analysis Batch: 611678

Client Sample ID: LAB COMP
Prep Type: Total/NA
Prep Batch: 611656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.18	F1 B	0.100	0.255	F1	mg/L		80	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-610875/1
Matrix: Water
Analysis Batch: 610875

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 480-193874-6 DU
Matrix: Water
Analysis Batch: 610875

Client Sample ID: LAB COMP
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		1	5
Temperature	22.2	HF	22.3		Degrees C		0.4	10

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 610733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-5	TRIP BLANK	Total/NA	Water	624.1	
480-193874-6	LAB COMP	Total/NA	Water	624.1	
MB 480-610733/8	Method Blank	Total/NA	Water	624.1	
LCS 480-610733/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 610782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	625	
MB 480-610782/1-A	Method Blank	Total/NA	Water	625	
LCS 480-610782/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-610782/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 610830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	625.1	610782
MB 480-610782/1-A	Method Blank	Total/NA	Water	625.1	610782
LCS 480-610782/2-A	Lab Control Sample	Total/NA	Water	625.1	610782
LCSD 480-610782/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	610782

Metals

Prep Batch: 611004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	200.7	
MB 480-611004/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-611004/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 611072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	245.1	
MB 480-611072/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-611072/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 611132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	245.1	611072
MB 480-611072/1-A	Method Blank	Total/NA	Water	245.1	611072
LCS 480-611072/2-A	Lab Control Sample	Total/NA	Water	245.1	611072

Analysis Batch: 611332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	200.7 Rev 4.4	611004
MB 480-611004/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	611004
LCS 480-611004/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	611004

General Chemistry

Analysis Batch: 610875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 610875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-610875/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-193874-6 DU	LAB COMP	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 611656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	Distill/CN	
MB 480-611656/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-611656/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-611656/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-193874-6 MS	LAB COMP	Total/NA	Water	Distill/CN	

Analysis Batch: 611678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193874-6	LAB COMP	Total/NA	Water	335.4	611656
MB 480-611656/1-A	Method Blank	Total/NA	Water	335.4	611656
LCS 480-611656/2-A	Lab Control Sample	Total/NA	Water	335.4	611656
LCS 480-611656/3-A	Lab Control Sample	Total/NA	Water	335.4	611656
480-193874-6 MS	LAB COMP	Total/NA	Water	335.4	611656

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-193874-5
Date Collected: 01/03/22 00:00
Matrix: Water
Date Received: 01/03/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	610733	01/04/22 15:35	ATG	TAL BUF

Client Sample ID: LAB COMP
Lab Sample ID: 480-193874-6
Date Collected: 01/03/22 13:15
Matrix: Water
Date Received: 01/03/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	610733	01/04/22 16:00	ATG	TAL BUF
Total/NA	Prep	625			610782	01/04/22 15:48	CMC	TAL BUF
Total/NA	Analysis	625.1		1	610830	01/05/22 12:36	JMM	TAL BUF
Total/NA	Prep	200.7			611004	01/07/22 08:19	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	611332	01/10/22 14:03	AMH	TAL BUF
Total/NA	Prep	245.1			611072	01/07/22 11:55	NVK	TAL BUF
Total/NA	Analysis	245.1		1	611132	01/07/22 15:47	BMB	TAL BUF
Total/NA	Prep	Distill/CN			611656	01/13/22 11:10	RJM	TAL BUF
Total/NA	Analysis	335.4		1	611678	01/13/22 12:07	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	610875	01/05/22 12:27	KEB	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-193874-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193874-5	TRIP BLANK	Water	01/03/22 00:00	01/03/22 13:40
480-193874-6	LAB COMP	Water	01/03/22 13:15	01/03/22 13:40

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-163859-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: \ Yes \ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, ...odecahydrate, ...e, ...specify)

480-193874 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Num	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	1/3/22	0715	G	Water			X	X	X	X	X		Lab TO Composite Samples
001-2		0915					X	X	X	X	X		
001-3		1115					X	X	X	X	X		
001-4		1315					X	X	X	X	X		
Trip Blank	—	—	—								X		Short Hold Time

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
Jason Gutkowski	1/3/22 / 13:34	Arcadis		1/3/2022 13:40	EEIN
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.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-193874-1

Login Number: 193874
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-194697-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
2/16/2022 2:00:26 PM

Steve Hartmann, Service Center Manager
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

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
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

Job ID: 480-194697-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-194697-1

Comments
No additional comments.

Receipt
The samples were received on 2/3/2022 1:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 2/3/22 as requested by the client: COMP (480-194697-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-614248 and analytical batch 480-614371 recovered outside control limits for the following analytes: Benzidine.

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
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMP (480-194697-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-194697-5

No Detections.

Client Sample ID: COMP
Lab Sample ID: 480-194697-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.17		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-194697-5

Date Collected: 02/03/22 00:00

Matrix: Water

Date Received: 02/03/22 13:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/04/22 00:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/04/22 00:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/04/22 00:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/04/22 00:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/04/22 00:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/04/22 00:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/04/22 00:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/04/22 00:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/04/22 00:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/04/22 00:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/04/22 00:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/04/22 00:45	1
Acrolein	ND		100	17	ug/L			02/04/22 00:45	1
Acrylonitrile	ND		50	1.9	ug/L			02/04/22 00:45	1
Benzene	ND		5.0	0.60	ug/L			02/04/22 00:45	1
Bromoform	ND		5.0	0.47	ug/L			02/04/22 00:45	1
Bromomethane	ND		5.0	1.2	ug/L			02/04/22 00:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/04/22 00:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/04/22 00:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/04/22 00:45	1
Chloroethane	ND		5.0	0.87	ug/L			02/04/22 00:45	1
Chloroform	ND		5.0	0.54	ug/L			02/04/22 00:45	1
Chloromethane	ND		5.0	0.64	ug/L			02/04/22 00:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/04/22 00:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/04/22 00:45	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/04/22 00:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/04/22 00:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/04/22 00:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/04/22 00:45	1
Toluene	ND		5.0	0.45	ug/L			02/04/22 00:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/04/22 00:45	1
Trichloroethene	ND		5.0	0.60	ug/L			02/04/22 00:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/04/22 00:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/04/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*02/04/22 00:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*02/04/22 00:45*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/04/22 00:45*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/04/22 00:45*	*1*

Client Sample ID: COMP

Lab Sample ID: 480-194697-6

Date Collected: 02/03/22 13:05

Matrix: Water

Date Received: 02/03/22 13:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/04/22 01:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/04/22 01:09	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/04/22 01:09	1

Client Sample ID: COMP
Lab Sample ID: 480-194697-6
Date Collected: 02/03/22 13:05
Matrix: Water
Date Received: 02/03/22 13:25

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/04/22 01:09	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/04/22 01:09	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/04/22 01:09	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/04/22 01:09	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/04/22 01:09	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/04/22 01:09	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/04/22 01:09	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/04/22 01:09	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/04/22 01:09	1
Acrolein	ND		100	17	ug/L			02/04/22 01:09	1
Acrylonitrile	ND		50	1.9	ug/L			02/04/22 01:09	1
Benzene	ND		5.0	0.60	ug/L			02/04/22 01:09	1
Bromoform	ND		5.0	0.47	ug/L			02/04/22 01:09	1
Bromomethane	ND		5.0	1.2	ug/L			02/04/22 01:09	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/04/22 01:09	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/04/22 01:09	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/04/22 01:09	1
Chloroethane	ND		5.0	0.87	ug/L			02/04/22 01:09	1
Chloroform	ND		5.0	0.54	ug/L			02/04/22 01:09	1
Chloromethane	ND		5.0	0.64	ug/L			02/04/22 01:09	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/04/22 01:09	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/04/22 01:09	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/04/22 01:09	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/04/22 01:09	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/04/22 01:09	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/04/22 01:09	1
Toluene	ND		5.0	0.45	ug/L			02/04/22 01:09	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/04/22 01:09	1
Trichloroethene	ND		5.0	0.60	ug/L			02/04/22 01:09	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/04/22 01:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/04/22 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*02/04/22 01:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*02/04/22 01:09*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/04/22 01:09*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/04/22 01:09*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		02/09/22 10:49	02/10/22 14:28	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		02/09/22 10:49	02/10/22 14:28	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		02/09/22 10:49	02/10/22 14:28	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		02/09/22 10:49	02/10/22 14:28	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		02/09/22 10:49	02/10/22 14:28	1

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: COMP
Lab Sample ID: 480-194697-6
Date Collected: 02/03/22 13:05
Matrix: Water
Date Received: 02/03/22 13:25

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.40	ug/L		02/09/22 10:49	02/10/22 14:28	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 14:28	1
2-Chlorophenol	ND		5.0	0.17	ug/L		02/09/22 10:49	02/10/22 14:28	1
2-Nitrophenol	ND		5.0	0.18	ug/L		02/09/22 10:49	02/10/22 14:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 14:28	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		02/09/22 10:49	02/10/22 14:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 14:28	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 14:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 14:28	1
4-Nitrophenol	ND		15	0.49	ug/L		02/09/22 10:49	02/10/22 14:28	1
Acenaphthene	ND		5.0	0.20	ug/L		02/09/22 10:49	02/10/22 14:28	1
Acenaphthylene	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 14:28	1
Anthracene	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzidine	ND	*1	80	14	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 14:28	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 14:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 14:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 14:28	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		02/09/22 10:49	02/10/22 14:28	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 14:28	1
Chrysene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
Decane	ND		10	0.40	ug/L		02/09/22 10:49	02/10/22 14:28	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 14:28	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 14:28	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 14:28	1
Diethyl phthalate	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 14:28	1
Fluoranthene	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 14:28	1
Fluorene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 14:28	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		02/09/22 10:49	02/10/22 14:28	1
Hexachloroethane	ND		5.0	0.15	ug/L		02/09/22 10:49	02/10/22 14:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 14:28	1
Isophorone	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 14:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 14:28	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		02/09/22 10:49	02/10/22 14:28	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		02/09/22 10:49	02/10/22 14:28	1
Naphthalene	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 14:28	1
Nitrobenzene	ND		5.0	0.20	ug/L		02/09/22 10:49	02/10/22 14:28	1
Pentachlorophenol	ND		10	0.79	ug/L		02/09/22 10:49	02/10/22 14:28	1
Phenanthrene	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 14:28	1
Phenol	ND		5.0	0.088	ug/L		02/09/22 10:49	02/10/22 14:28	1
Pyrene	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 14:28	1
n-Octadecane	ND		10	0.30	ug/L		02/09/22 10:49	02/10/22 14:28	1

Client Sample ID: COMP
Lab Sample ID: 480-194697-6
Date Collected: 02/03/22 13:05
Matrix: Water
Date Received: 02/03/22 13:25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*52 - 151*	*02/09/22 10:49*	*02/10/22 14:28*	*1*
2-Fluorobiphenyl	*94*		*44 - 120*	*02/09/22 10:49*	*02/10/22 14:28*	*1*
2-Fluorophenol	*49*		*17 - 120*	*02/09/22 10:49*	*02/10/22 14:28*	*1*
Nitrobenzene-d5	*90*		*15 - 314*	*02/09/22 10:49*	*02/10/22 14:28*	*1*
p-Terphenyl-d14	*94*		*22 - 125*	*02/09/22 10:49*	*02/10/22 14:28*	*1*
Phenol-d5	*33*		*8 - 424*	*02/09/22 10:49*	*02/10/22 14:28*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		02/08/22 08:55	02/10/22 17:46	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/08/22 10:50	02/08/22 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.17**		0.010	0.0050	mg/L		02/04/22 14:52	02/04/22 15:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.1	0.1	SU			02/07/22 14:40	1
Temperature	**22.8**	**HF**	0.001	0.001	Degrees C			02/07/22 14:40	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-194697-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-194697-5	TRIP BLANK	104	103	101	101
480-194697-6	COMP	103	102	101	102
LCS 480-613737/6	Lab Control Sample	99	99	100	98
MB 480-613737/8	Method Blank	99	100	99	101

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-194697-6	COMP	75	94	49	90	94	33
LCS 480-614248/2-A	Lab Control Sample	91	83	44	80	99	32
LCSD 480-614248/3-A	Lab Control Sample Dup	92	90	49	89	102	36
MB 480-614248/1-A	Method Blank	77	93	49	88	104	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-613737/8
Matrix: Water
Analysis Batch: 613737

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/03/22 17:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/03/22 17:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/03/22 17:32	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/03/22 17:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/03/22 17:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/03/22 17:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/03/22 17:32	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/03/22 17:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/03/22 17:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/03/22 17:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/03/22 17:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/03/22 17:32	1
Acrolein	ND		100	17	ug/L			02/03/22 17:32	1
Acrylonitrile	ND		50	1.9	ug/L			02/03/22 17:32	1
Benzene	ND		5.0	0.60	ug/L			02/03/22 17:32	1
Bromoform	ND		5.0	0.47	ug/L			02/03/22 17:32	1
Bromomethane	ND		5.0	1.2	ug/L			02/03/22 17:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/03/22 17:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/03/22 17:32	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/03/22 17:32	1
Chloroethane	ND		5.0	0.87	ug/L			02/03/22 17:32	1
Chloroform	ND		5.0	0.54	ug/L			02/03/22 17:32	1
Chloromethane	ND		5.0	0.64	ug/L			02/03/22 17:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/03/22 17:32	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/03/22 17:32	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/03/22 17:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/03/22 17:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/03/22 17:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/03/22 17:32	1
Toluene	ND		5.0	0.45	ug/L			02/03/22 17:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/03/22 17:32	1
Trichloroethene	ND		5.0	0.60	ug/L			02/03/22 17:32	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/03/22 17:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/03/22 17:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*02/03/22 17:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*02/03/22 17:32*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*02/03/22 17:32*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/03/22 17:32*	*1*

Lab Sample ID: LCS 480-613737/6
Matrix: Water
Analysis Batch: 613737

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		106	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-613737/6
Matrix: Water
Analysis Batch: 613737

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	52 - 150
1,1-Dichloroethane	20.0	20.4		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	17.0		ug/L		85	1 - 234
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	18 - 190
1,2-Dichloroethane	20.0	19.8		ug/L		99	49 - 155
1,2-Dichloropropane	20.0	20.7		ug/L		103	1 - 210
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	59 - 156
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	18 - 190
2-Chloroethyl vinyl ether	20.0	20.7	J	ug/L		104	1 - 305
Benzene	20.0	20.1		ug/L		101	37 - 151
Bromoform	20.0	18.9		ug/L		94	45 - 169
Bromomethane	20.0	20.8		ug/L		104	1 - 242
Carbon tetrachloride	20.0	16.7		ug/L		83	70 - 140
Chlorobenzene	20.0	20.0		ug/L		100	37 - 160
Dibromochloromethane	20.0	19.4		ug/L		97	53 - 149
Chloroethane	20.0	23.0		ug/L		115	14 - 230
Chloroform	20.0	20.1		ug/L		101	51 - 138
Chloromethane	20.0	21.4		ug/L		107	1 - 273
cis-1,3-Dichloropropene	20.0	19.7		ug/L		99	1 - 227
Bromodichloromethane	20.0	19.8		ug/L		99	35 - 155
Ethylbenzene	20.0	20.8		ug/L		104	37 - 162
Methylene Chloride	20.0	18.7		ug/L		93	1 - 221
Tetrachloroethene	20.0	19.6		ug/L		98	64 - 148
Toluene	20.0	20.2		ug/L		101	47 - 150
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	17 - 183
Trichloroethene	20.0	19.4		ug/L		97	71 - 157
Trichlorofluoromethane	20.0	22.0		ug/L		110	17 - 181
Vinyl chloride	20.0	20.6		ug/L		103	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-614248/1-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		02/09/22 10:49	02/10/22 13:15	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		02/09/22 10:49	02/10/22 13:15	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		02/09/22 10:49	02/10/22 13:15	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		02/09/22 10:49	02/10/22 13:15	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-614248/1-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		02/09/22 10:49	02/10/22 13:15	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 13:15	1
2-Chlorophenol	ND		5.0	0.17	ug/L		02/09/22 10:49	02/10/22 13:15	1
2-Nitrophenol	ND		5.0	0.18	ug/L		02/09/22 10:49	02/10/22 13:15	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 13:15	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		02/09/22 10:49	02/10/22 13:15	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 13:15	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 13:15	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 13:15	1
4-Nitrophenol	ND		15	0.49	ug/L		02/09/22 10:49	02/10/22 13:15	1
Acenaphthene	ND		5.0	0.20	ug/L		02/09/22 10:49	02/10/22 13:15	1
Acenaphthylene	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 13:15	1
Anthracene	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzidine	ND		80	14	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 13:15	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		02/09/22 10:49	02/10/22 13:15	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 13:15	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 13:15	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		02/09/22 10:49	02/10/22 13:15	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		02/09/22 10:49	02/10/22 13:15	1
Chrysene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
Decane	ND		10	0.40	ug/L		02/09/22 10:49	02/10/22 13:15	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 13:15	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 13:15	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 13:15	1
Diethyl phthalate	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		02/09/22 10:49	02/10/22 13:15	1
Fluoranthene	ND		5.0	0.40	ug/L		02/09/22 10:49	02/10/22 13:15	1
Fluorene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		02/09/22 10:49	02/10/22 13:15	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		02/09/22 10:49	02/10/22 13:15	1
Hexachloroethane	ND		5.0	0.15	ug/L		02/09/22 10:49	02/10/22 13:15	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		02/09/22 10:49	02/10/22 13:15	1
Isophorone	ND		5.0	0.19	ug/L		02/09/22 10:49	02/10/22 13:15	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 13:15	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		02/09/22 10:49	02/10/22 13:15	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		02/09/22 10:49	02/10/22 13:15	1
Naphthalene	ND		5.0	0.22	ug/L		02/09/22 10:49	02/10/22 13:15	1
Nitrobenzene	ND		5.0	0.20	ug/L		02/09/22 10:49	02/10/22 13:15	1
Pentachlorophenol	ND		10	0.79	ug/L		02/09/22 10:49	02/10/22 13:15	1
Phenanthrene	ND		5.0	0.30	ug/L		02/09/22 10:49	02/10/22 13:15	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-614248/1-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		02/09/22 10:49	02/10/22 13:15	1
Pyrene	ND		5.0	0.35	ug/L		02/09/22 10:49	02/10/22 13:15	1
n-Octadecane	ND		10	0.30	ug/L		02/09/22 10:49	02/10/22 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*52 - 151*	*02/09/22 10:49*	*02/10/22 13:15*	*1*
2-Fluorobiphenyl	*93*		*44 - 120*	*02/09/22 10:49*	*02/10/22 13:15*	*1*
2-Fluorophenol	*49*		*17 - 120*	*02/09/22 10:49*	*02/10/22 13:15*	*1*
Nitrobenzene-d5	*88*		*15 - 314*	*02/09/22 10:49*	*02/10/22 13:15*	*1*
p-Terphenyl-d14	*104*		*22 - 125*	*02/09/22 10:49*	*02/10/22 13:15*	*1*
Phenol-d5	*35*		*8 - 424*	*02/09/22 10:49*	*02/10/22 13:15*	*1*

Lab Sample ID: LCS 480-614248/2-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	37.8		ug/L		76	44 - 142
1,2-Dichlorobenzene	50.0	35.7		ug/L		71	32 - 129
1,3-Dichlorobenzene	50.0	34.5		ug/L		69	1 - 172
1,4-Dichlorobenzene	50.0	34.1		ug/L		68	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	38.6		ug/L		77	36 - 166
2,4,6-Trichlorophenol	50.0	42.1		ug/L		84	37 - 144
2,4-Dichlorophenol	50.0	43.3		ug/L		87	39 - 135
2,4-Dimethylphenol	50.0	41.8		ug/L		84	32 - 120
2,4-Dinitrophenol	100	95.6		ug/L		96	1 - 191
2,4-Dinitrotoluene	50.0	50.8		ug/L		102	39 - 139
2,6-Dinitrotoluene	50.0	46.5		ug/L		93	50 - 158
2-Chloronaphthalene	50.0	39.2		ug/L		78	60 - 120
2-Chlorophenol	50.0	36.1		ug/L		72	23 - 134
2-Nitrophenol	50.0	38.0		ug/L		76	29 - 182
3,3'-Dichlorobenzidine	100	84.8		ug/L		85	1 - 262
4,6-Dinitro-2-methylphenol	100	92.1		ug/L		92	1 - 181
4-Bromophenyl phenyl ether	50.0	43.6		ug/L		87	53 - 127
4-Chloro-3-methylphenol	50.0	48.8		ug/L		98	22 - 147
4-Chlorophenyl phenyl ether	50.0	44.6		ug/L		89	25 - 158
4-Nitrophenol	100	48.1		ug/L		48	1 - 132
Acenaphthene	50.0	42.7		ug/L		85	47 - 145
Acenaphthylene	50.0	39.9		ug/L		80	33 - 145
Anthracene	50.0	46.5		ug/L		93	27 - 133
Benzidine	100	30.7	J	ug/L		31	1 - 120
Benzo[a]anthracene	50.0	46.8		ug/L		94	33 - 143
Benzo[a]pyrene	50.0	42.5		ug/L		85	17 - 163
Benzo[b]fluoranthene	50.0	48.7		ug/L		97	24 - 159
Benzo[g,h,i]perylene	50.0	42.6		ug/L		85	1 - 219
Benzo[k]fluoranthene	50.0	47.6		ug/L		95	11 - 162
Bis(2-chloroethoxy)methane	50.0	40.5		ug/L		81	33 - 184
Bis(2-chloroethyl)ether	50.0	38.7		ug/L		77	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-614248/2-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bis(2-ethylhexyl) phthalate			50.0	49.9		ug/L		100	8 - 158		
Butyl benzyl phthalate			50.0	49.1		ug/L		98	1 - 152		
Chrysene			50.0	44.2		ug/L		88	17 - 168		
Di-n-butyl phthalate			50.0	51.5		ug/L		103	1 - 120		
Di-n-octyl phthalate			50.0	49.4		ug/L		99	4 - 146		
Dibenz(a,h)anthracene			50.0	43.8		ug/L		88	1 - 227		
Diethyl phthalate			50.0	50.5		ug/L		101	1 - 120		
Dimethyl phthalate			50.0	48.8		ug/L		98	1 - 120		
Fluoranthene			50.0	49.6		ug/L		99	26 - 137		
Fluorene			50.0	45.8		ug/L		92	59 - 121		
Hexachlorobenzene			50.0	43.7		ug/L		87	1 - 152		
Hexachlorocyclopentadiene			50.0	34.3		ug/L		69	5 - 120		
Hexachloroethane			50.0	33.6		ug/L		67	40 - 120		
Indeno[1,2,3-cd]pyrene			50.0	43.2		ug/L		86	1 - 171		
Isophorone			50.0	44.7		ug/L		89	21 - 196		
N-Nitrosodi-n-propylamine			50.0	44.3		ug/L		89	1 - 230		
N-Nitrosodiphenylamine			50.0	44.6		ug/L		89	54 - 125		
Naphthalene			50.0	39.6		ug/L		79	21 - 133		
Nitrobenzene			50.0	39.2		ug/L		78	35 - 180		
Pentachlorophenol			100	88.8		ug/L		89	14 - 176		
Phenanthrene			50.0	45.3		ug/L		91	54 - 120		
Phenol			50.0	16.4		ug/L		33	5 - 120		
Pyrene			50.0	47.8		ug/L		96	52 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*52 - 151*
2-Fluorobiphenyl	*83*		*44 - 120*
2-Fluorophenol	*44*		*17 - 120*
Nitrobenzene-d5	*80*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*32*		*8 - 424*

Lab Sample ID: LCSD 480-614248/3-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			50.0	43.6		ug/L		87	44 - 142	14	34
1,2-Dichlorobenzene			50.0	40.8		ug/L		82	32 - 129	13	38
1,3-Dichlorobenzene			50.0	39.5		ug/L		79	1 - 172	13	37
1,4-Dichlorobenzene			50.0	39.5		ug/L		79	20 - 124	15	40
2,2'-Oxybis(1-chloropropane)			50.0	43.7		ug/L		87	36 - 166	12	36
2,4,6-Trichlorophenol			50.0	46.7		ug/L		93	37 - 144	10	20
2,4-Dichlorophenol			50.0	47.6		ug/L		95	39 - 135	9	23
2,4-Dimethylphenol			50.0	46.2		ug/L		92	32 - 120	10	18
2,4-Dinitrophenol			100	108		ug/L		108	1 - 191	12	29
2,4-Dinitrotoluene			50.0	54.5		ug/L		109	39 - 139	7	20
2,6-Dinitrotoluene			50.0	51.1		ug/L		102	50 - 158	10	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-614248/3-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	44.6		ug/L		89	60 - 120	13	30
2-Chlorophenol			50.0	40.6		ug/L		81	23 - 134	12	26
2-Nitrophenol			50.0	43.6		ug/L		87	29 - 182	14	28
3,3'-Dichlorobenzidine			100	87.6		ug/L		88	1 - 262	3	31
4,6-Dinitro-2-methylphenol			100	99.3		ug/L		99	1 - 181	8	30
4-Bromophenyl phenyl ether			50.0	46.8		ug/L		94	53 - 127	7	16
4-Chloro-3-methylphenol			50.0	52.2		ug/L		104	22 - 147	7	16
4-Chlorophenyl phenyl ether			50.0	50.0		ug/L		100	25 - 158	11	15
4-Nitrophenol			100	52.0		ug/L		52	1 - 132	8	24
Acenaphthene			50.0	47.6		ug/L		95	47 - 145	11	25
Acenaphthylene			50.0	44.7		ug/L		89	33 - 145	11	22
Anthracene			50.0	49.1		ug/L		98	27 - 133	5	15
Benzidine			100	ND	*1	ug/L		5	1 - 120	142	50
Benzo[a]anthracene			50.0	50.1		ug/L		100	33 - 143	7	15
Benzo[a]pyrene			50.0	45.7		ug/L		91	17 - 163	7	15
Benzo[b]fluoranthene			50.0	52.9		ug/L		106	24 - 159	8	17
Benzo[g,h,i]perylene			50.0	44.4		ug/L		89	1 - 219	4	19
Benzo[k]fluoranthene			50.0	51.4		ug/L		103	11 - 162	8	19
Bis(2-chloroethoxy)methane			50.0	45.4		ug/L		91	33 - 184	11	23
Bis(2-chloroethyl)ether			50.0	41.9		ug/L		84	12 - 158	8	33
Bis(2-ethylhexyl) phthalate			50.0	54.6		ug/L		109	8 - 158	9	15
Butyl benzyl phthalate			50.0	53.7		ug/L		107	1 - 152	9	15
Chrysene			50.0	48.4		ug/L		97	17 - 168	9	15
Di-n-butyl phthalate			50.0	55.6		ug/L		111	1 - 120	8	15
Di-n-octyl phthalate			50.0	54.9		ug/L		110	4 - 146	11	15
Dibenz(a,h)anthracene			50.0	45.7		ug/L		91	1 - 227	4	18
Diethyl phthalate			50.0	54.8		ug/L		110	1 - 120	8	15
Dimethyl phthalate			50.0	52.6		ug/L		105	1 - 120	8	15
Fluoranthene			50.0	53.7		ug/L		107	26 - 137	8	15
Fluorene			50.0	50.9		ug/L		102	59 - 121	10	18
Hexachlorobenzene			50.0	46.2		ug/L		92	1 - 152	6	15
Hexachlorocyclopentadiene			50.0	40.7		ug/L		81	5 - 120	17	50
Hexachloroethane			50.0	40.0		ug/L		80	40 - 120	17	43
Indeno[1,2,3-cd]pyrene			50.0	45.3		ug/L		91	1 - 171	5	17
Isophorone			50.0	50.1		ug/L		100	21 - 196	11	21
N-Nitrosodi-n-propylamine			50.0	48.5		ug/L		97	1 - 230	9	23
N-Nitrosodiphenylamine			50.0	47.1		ug/L		94	54 - 125	5	15
Naphthalene			50.0	43.9		ug/L		88	21 - 133	10	31
Nitrobenzene			50.0	44.2		ug/L		88	35 - 180	12	27
Pentachlorophenol			100	96.9		ug/L		97	14 - 176	9	21
Phenanthrene			50.0	47.9		ug/L		96	54 - 120	5	16
Phenol			50.0	18.1		ug/L		36	5 - 120	10	36
Pyrene			50.0	50.0		ug/L		100	52 - 120	4	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*49*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-614248/3-A
Matrix: Water
Analysis Batch: 614371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614248

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*89*		*15 - 314*
p-Terphenyl-d14	*102*		*22 - 125*
Phenol-d5	*36*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-614028/1-A
Matrix: Water
Analysis Batch: 614656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		02/08/22 08:55	02/11/22 15:09	1

Lab Sample ID: LCS 480-614028/2-A
Matrix: Water
Analysis Batch: 614656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.211		mg/L		106	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-614015/1-A
Matrix: Water
Analysis Batch: 614171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		02/08/22 10:50	02/08/22 14:43	1

Lab Sample ID: LCS 480-614015/2-A
Matrix: Water
Analysis Batch: 614171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00650		mg/L		97	85 - 115

Lab Sample ID: 480-194697-6 MS
Matrix: Water
Analysis Batch: 614171

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 614015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00693		mg/L		104	70 - 130

Lab Sample ID: 480-194697-6 MSD
Matrix: Water
Analysis Batch: 614171

Client Sample ID: COMP
Prep Type: Total/NA
Prep Batch: 614015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00682		mg/L		102	70 - 130	2	20

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-613887/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 613897
Prep Batch: 613887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		02/04/22 14:52	02/04/22 15:29	1

Lab Sample ID: LCS 480-613887/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 613897
Prep Batch: 613887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.235		mg/L		94	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-614024/23
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 614024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 480-194697-6 DU
Client Sample ID: COMP
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 614024

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		1	5
Temperature	22.8	HF	22.8		Degrees C		0	10

GC/MS VOA

Analysis Batch: 613737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-5	TRIP BLANK	Total/NA	Water	624.1	
480-194697-6	COMP	Total/NA	Water	624.1	
MB 480-613737/8	Method Blank	Total/NA	Water	624.1	
LCS 480-613737/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 614248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	625	
MB 480-614248/1-A	Method Blank	Total/NA	Water	625	
LCS 480-614248/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-614248/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 614371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	625.1	614248
MB 480-614248/1-A	Method Blank	Total/NA	Water	625.1	614248
LCS 480-614248/2-A	Lab Control Sample	Total/NA	Water	625.1	614248
LCSD 480-614248/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	614248

Metals

Prep Batch: 614015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	245.1	
MB 480-614015/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-614015/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-194697-6 MS	COMP	Total/NA	Water	245.1	
480-194697-6 MSD	COMP	Total/NA	Water	245.1	

Prep Batch: 614028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	200.7	
MB 480-614028/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-614028/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 614171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	245.1	614015
MB 480-614015/1-A	Method Blank	Total/NA	Water	245.1	614015
LCS 480-614015/2-A	Lab Control Sample	Total/NA	Water	245.1	614015
480-194697-6 MS	COMP	Total/NA	Water	245.1	614015
480-194697-6 MSD	COMP	Total/NA	Water	245.1	614015

Analysis Batch: 614576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	200.7 Rev 4.4	614028

Analysis Batch: 614656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-614028/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	614028

Metals (Continued)

Analysis Batch: 614656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-614028/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	614028

General Chemistry

Prep Batch: 613887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	Distill/CN	
MB 480-613887/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-613887/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 613897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	335.4	613887
MB 480-613887/1-A	Method Blank	Total/NA	Water	335.4	613887
LCS 480-613887/2-A	Lab Control Sample	Total/NA	Water	335.4	613887

Analysis Batch: 614024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-194697-6	COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-614024/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-194697-6 DU	COMP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-194697-5
Date Collected: 02/03/22 00:00
Matrix: Water
Date Received: 02/03/22 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	613737	02/04/22 00:45	ATG	TAL BUF

Client Sample ID: COMP
Lab Sample ID: 480-194697-6
Date Collected: 02/03/22 13:05
Matrix: Water
Date Received: 02/03/22 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	613737	02/04/22 01:09	ATG	TAL BUF
Total/NA	Prep	625			614248	02/09/22 10:49	CMC	TAL BUF
Total/NA	Analysis	625.1		1	614371	02/10/22 14:28	JMM	TAL BUF
Total/NA	Prep	200.7			614028	02/08/22 08:55	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	614576	02/10/22 17:46	AMH	TAL BUF
Total/NA	Prep	245.1			614015	02/08/22 10:50	NVK	TAL BUF
Total/NA	Analysis	245.1		1	614171	02/08/22 15:06	BMB	TAL BUF
Total/NA	Prep	Distill/CN			613887	02/04/22 14:52	JGO	TAL BUF
Total/NA	Analysis	335.4		1	613897	02/04/22 15:42	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	614024	02/07/22 14:40	KEB	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-194697-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-194697-5	TRIP BLANK	Water	02/03/22 00:00	02/03/22 13:25
480-194697-6	COMP	Water	02/03/22 13:05	02/03/22 13:25

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-163858-34075.1
Client Contact: Jason Gutkowski	Phone: 315 4363605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone: 315-671-9173(Tel) 315-446-8053(Fax)
Email: jason.gutkowski@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm. Monthly
Site:

Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: ☐ Yes ☐ No
PO #: Needed 30082116
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3

480-194697 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62		Total Number of	Special Instructions/Note:
Preservation Code:							D	B	N	N	N			
001-1	2/3/22	0705	G	Water			X	X	X	X	X	X		Lab To
001-2		0905					X	X	X	X	X			Composite
001-3		1105					X	X	X	X	X			Samples
001-4		1305					X	X	X	X	X			
Trip Blank	—	—	—								X			
														Short
														Hold Time

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	Dan Gutkowski	2/3/22 1325	Arcadis			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/3/22 1325	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.4

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-194697-1

Login Number: 194697

List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-195419-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
3/15/2022 10:52:57 AM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@Eurofinset.com

LINKS

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-195419-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195419-1

Comments
No additional comments.

Receipt
The samples were received on 3/2/2022 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 3/3/22 as requested by the client: COMPOSITE (480-195419-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: TRIP BLANK (480-195419-5). The requested target analyte list contains 2-Chloroethyl vinyl ether and/or Acrolein, which are acid-labile compounds that degrade in an acidic medium.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-616732 and analytical batch 480-616774 recovered outside control limits for the following analytes: Benzidine.

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
Methods SM 4500 H+ B: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: COMPOSITE (480-195419-6).

Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMPOSITE (480-195419-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-195419-5

No Detections.

Client Sample ID: COMPOSITE
Lab Sample ID: 480-195419-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.13		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.7	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-195419-5

Date Collected: 03/02/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/03/22 17:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/03/22 17:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/03/22 17:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/03/22 17:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/03/22 17:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/03/22 17:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/03/22 17:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/03/22 17:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/03/22 17:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/03/22 17:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/03/22 17:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/03/22 17:45	1
Acrolein	ND		100	17	ug/L			03/03/22 17:45	1
Acrylonitrile	ND		50	1.9	ug/L			03/03/22 17:45	1
Benzene	ND		5.0	0.60	ug/L			03/03/22 17:45	1
Bromoform	ND		5.0	0.47	ug/L			03/03/22 17:45	1
Bromomethane	ND		5.0	1.2	ug/L			03/03/22 17:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/03/22 17:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/03/22 17:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/03/22 17:45	1
Chloroethane	ND		5.0	0.87	ug/L			03/03/22 17:45	1
Chloroform	ND		5.0	0.54	ug/L			03/03/22 17:45	1
Chloromethane	ND		5.0	0.64	ug/L			03/03/22 17:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/03/22 17:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/03/22 17:45	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/03/22 17:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/03/22 17:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/03/22 17:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/03/22 17:45	1
Toluene	ND		5.0	0.45	ug/L			03/03/22 17:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/03/22 17:45	1
Trichloroethene	ND		5.0	0.60	ug/L			03/03/22 17:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/03/22 17:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/03/22 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*03/03/22 17:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*03/03/22 17:45*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*03/03/22 17:45*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/03/22 17:45*	*1*

Client Sample ID: COMPOSITE
Lab Sample ID: 480-195419-6

Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/03/22 18:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/03/22 18:09	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/03/22 18:09	1

Client Sample ID: COMPOSITE
Lab Sample ID: 480-195419-6
Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/03/22 18:09	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/03/22 18:09	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/03/22 18:09	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/03/22 18:09	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/03/22 18:09	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/03/22 18:09	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/03/22 18:09	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/03/22 18:09	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/03/22 18:09	1
Acrolein	ND		100	17	ug/L			03/03/22 18:09	1
Acrylonitrile	ND		50	1.9	ug/L			03/03/22 18:09	1
Benzene	ND		5.0	0.60	ug/L			03/03/22 18:09	1
Bromoform	ND		5.0	0.47	ug/L			03/03/22 18:09	1
Bromomethane	ND		5.0	1.2	ug/L			03/03/22 18:09	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/03/22 18:09	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/03/22 18:09	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/03/22 18:09	1
Chloroethane	ND		5.0	0.87	ug/L			03/03/22 18:09	1
Chloroform	ND		5.0	0.54	ug/L			03/03/22 18:09	1
Chloromethane	ND		5.0	0.64	ug/L			03/03/22 18:09	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/03/22 18:09	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/03/22 18:09	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/03/22 18:09	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/03/22 18:09	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/03/22 18:09	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/03/22 18:09	1
Toluene	ND		5.0	0.45	ug/L			03/03/22 18:09	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/03/22 18:09	1
Trichloroethene	ND		5.0	0.60	ug/L			03/03/22 18:09	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/03/22 18:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/03/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*03/03/22 18:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*03/03/22 18:09*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*03/03/22 18:09*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/03/22 18:09*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		03/03/22 15:58	03/04/22 19:08	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		03/03/22 15:58	03/04/22 19:08	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		03/03/22 15:58	03/04/22 19:08	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		03/03/22 15:58	03/04/22 19:08	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		03/03/22 15:58	03/04/22 19:08	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-195419-1

Client Sample ID: COMPOSITE
Date Collected: 03/03/22 00:00
Date Received: 03/02/22 14:48

Lab Sample ID: 480-195419-6
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.40	ug/L		03/03/22 15:58	03/04/22 19:08	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 19:08	1
2-Chlorophenol	ND		5.0	0.17	ug/L		03/03/22 15:58	03/04/22 19:08	1
2-Nitrophenol	ND		5.0	0.18	ug/L		03/03/22 15:58	03/04/22 19:08	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 19:08	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		03/03/22 15:58	03/04/22 19:08	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 19:08	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 19:08	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 19:08	1
4-Nitrophenol	ND		15	0.49	ug/L		03/03/22 15:58	03/04/22 19:08	1
Acenaphthene	ND		5.0	0.20	ug/L		03/03/22 15:58	03/04/22 19:08	1
Acenaphthylene	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 19:08	1
Anthracene	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzidine	ND	*1	80	14	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 19:08	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 19:08	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 19:08	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 19:08	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		03/03/22 15:58	03/04/22 19:08	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 19:08	1
Chrysene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
Decane	ND		10	0.40	ug/L		03/03/22 15:58	03/04/22 19:08	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 19:08	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 19:08	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 19:08	1
Diethyl phthalate	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 19:08	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 19:08	1
Fluorene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 19:08	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		03/03/22 15:58	03/04/22 19:08	1
Hexachloroethane	ND		5.0	0.15	ug/L		03/03/22 15:58	03/04/22 19:08	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 19:08	1
Isophorone	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 19:08	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 19:08	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		03/03/22 15:58	03/04/22 19:08	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		03/03/22 15:58	03/04/22 19:08	1
Naphthalene	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 19:08	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/03/22 15:58	03/04/22 19:08	1
Pentachlorophenol	ND		10	0.79	ug/L		03/03/22 15:58	03/04/22 19:08	1
Phenanthrene	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 19:08	1
Phenol	ND		5.0	0.088	ug/L		03/03/22 15:58	03/04/22 19:08	1
Pyrene	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 19:08	1
n-Octadecane	ND		10	0.30	ug/L		03/03/22 15:58	03/04/22 19:08	1

Client Sample ID: COMPOSITE
Lab Sample ID: 480-195419-6

Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*52 - 151*	*03/03/22 15:58*	*03/04/22 19:08*	*1*
2-Fluorobiphenyl	*95*		*44 - 120*	*03/03/22 15:58*	*03/04/22 19:08*	*1*
2-Fluorophenol	*50*		*17 - 120*	*03/03/22 15:58*	*03/04/22 19:08*	*1*
Nitrobenzene-d5	*95*		*15 - 314*	*03/03/22 15:58*	*03/04/22 19:08*	*1*
p-Terphenyl-d14	*101*		*22 - 125*	*03/03/22 15:58*	*03/04/22 19:08*	*1*
Phenol-d5	*33*		*8 - 424*	*03/03/22 15:58*	*03/04/22 19:08*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		03/04/22 09:32	03/07/22 20:01	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		03/07/22 11:05	03/07/22 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.13**		0.010	0.0050	mg/L		03/03/22 15:39	03/04/22 08:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.0**	**HF**	0.1	0.1	SU			03/10/22 13:15	1
Temperature	**16.7**	**HF**	0.001	0.001	Degrees C			03/10/22 13:15	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-195419-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-195419-5	TRIP BLANK	96	101	101	105
480-195419-6	COMPOSITE	93	101	100	104
LCS 480-616688/6	Lab Control Sample	97	98	101	104
MB 480-616688/8	Method Blank	97	104	100	102

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-195419-6	COMPOSITE	101	95	50	95	101	33
LCS 480-616732/2-A	Lab Control Sample	110	92	52	95	104	35
LCSD 480-616732/3-A	Lab Control Sample Dup	110	90	50	90	102	35
MB 480-616732/1-A	Method Blank	81	87	47	86	97	33

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-195419-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-616688/8
Matrix: Water
Analysis Batch: 616688

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/03/22 16:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/03/22 16:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/03/22 16:51	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/03/22 16:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/03/22 16:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/03/22 16:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/03/22 16:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/03/22 16:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/03/22 16:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/03/22 16:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/03/22 16:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/03/22 16:51	1
Acrolein	ND		100	17	ug/L			03/03/22 16:51	1
Acrylonitrile	ND		50	1.9	ug/L			03/03/22 16:51	1
Benzene	ND		5.0	0.60	ug/L			03/03/22 16:51	1
Bromoform	ND		5.0	0.47	ug/L			03/03/22 16:51	1
Bromomethane	ND		5.0	1.2	ug/L			03/03/22 16:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/03/22 16:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/03/22 16:51	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/03/22 16:51	1
Chloroethane	ND		5.0	0.87	ug/L			03/03/22 16:51	1
Chloroform	ND		5.0	0.54	ug/L			03/03/22 16:51	1
Chloromethane	ND		5.0	0.64	ug/L			03/03/22 16:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/03/22 16:51	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/03/22 16:51	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/03/22 16:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/03/22 16:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/03/22 16:51	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/03/22 16:51	1
Toluene	ND		5.0	0.45	ug/L			03/03/22 16:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/03/22 16:51	1
Trichloroethene	ND		5.0	0.60	ug/L			03/03/22 16:51	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/03/22 16:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/03/22 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*03/03/22 16:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*03/03/22 16:51*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*03/03/22 16:51*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/03/22 16:51*	*1*

Lab Sample ID: LCS 480-616688/6
Matrix: Water
Analysis Batch: 616688

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane			20.0	17.0		ug/L		85	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	20.3		ug/L		102	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-616688/6
Matrix: Water
Analysis Batch: 616688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	52 - 150
1,1-Dichloroethane	20.0	19.5		ug/L		98	59 - 155
1,1-Dichloroethene	20.0	19.4		ug/L		97	1 - 234
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	18 - 190
1,2-Dichloroethane	20.0	19.8		ug/L		99	49 - 155
1,2-Dichloropropane	20.0	19.8		ug/L		99	1 - 210
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	59 - 156
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	18 - 190
2-Chloroethyl vinyl ether	20.0	18.5	J	ug/L		92	1 - 305
Benzene	20.0	19.6		ug/L		98	37 - 151
Bromoform	20.0	19.5		ug/L		97	45 - 169
Bromomethane	20.0	20.0		ug/L		100	1 - 242
Carbon tetrachloride	20.0	16.8		ug/L		84	70 - 140
Chlorobenzene	20.0	19.7		ug/L		98	37 - 160
Dibromochloromethane	20.0	20.2		ug/L		101	53 - 149
Chloroethane	20.0	18.0		ug/L		90	14 - 230
Chloroform	20.0	20.0		ug/L		100	51 - 138
Chloromethane	20.0	19.4		ug/L		97	1 - 273
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	1 - 227
Bromodichloromethane	20.0	20.0		ug/L		100	35 - 155
Ethylbenzene	20.0	20.1		ug/L		100	37 - 162
Methylene Chloride	20.0	21.4		ug/L		107	1 - 221
Tetrachloroethene	20.0	19.5		ug/L		98	64 - 148
Toluene	20.0	20.0		ug/L		100	47 - 150
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	17 - 183
Trichloroethene	20.0	18.6		ug/L		93	71 - 157
Trichlorofluoromethane	20.0	19.9		ug/L		99	17 - 181
Vinyl chloride	20.0	16.7		ug/L		83	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-616732/1-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		03/03/22 15:58	03/04/22 17:06	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		03/03/22 15:58	03/04/22 17:06	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		03/03/22 15:58	03/04/22 17:06	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		03/03/22 15:58	03/04/22 17:06	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-616732/1-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		03/03/22 15:58	03/04/22 17:06	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 17:06	1
2-Chlorophenol	ND		5.0	0.17	ug/L		03/03/22 15:58	03/04/22 17:06	1
2-Nitrophenol	ND		5.0	0.18	ug/L		03/03/22 15:58	03/04/22 17:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 17:06	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		03/03/22 15:58	03/04/22 17:06	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 17:06	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 17:06	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 17:06	1
4-Nitrophenol	ND		15	0.49	ug/L		03/03/22 15:58	03/04/22 17:06	1
Acenaphthene	ND		5.0	0.20	ug/L		03/03/22 15:58	03/04/22 17:06	1
Acenaphthylene	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 17:06	1
Anthracene	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzidine	ND		80	14	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 17:06	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		03/03/22 15:58	03/04/22 17:06	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 17:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 17:06	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		03/03/22 15:58	03/04/22 17:06	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		03/03/22 15:58	03/04/22 17:06	1
Chrysene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
Decane	ND		10	0.40	ug/L		03/03/22 15:58	03/04/22 17:06	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 17:06	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 17:06	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 17:06	1
Diethyl phthalate	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		03/03/22 15:58	03/04/22 17:06	1
Fluoranthene	ND		5.0	0.40	ug/L		03/03/22 15:58	03/04/22 17:06	1
Fluorene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		03/03/22 15:58	03/04/22 17:06	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		03/03/22 15:58	03/04/22 17:06	1
Hexachloroethane	ND		5.0	0.15	ug/L		03/03/22 15:58	03/04/22 17:06	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		03/03/22 15:58	03/04/22 17:06	1
Isophorone	ND		5.0	0.19	ug/L		03/03/22 15:58	03/04/22 17:06	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 17:06	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		03/03/22 15:58	03/04/22 17:06	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		03/03/22 15:58	03/04/22 17:06	1
Naphthalene	ND		5.0	0.22	ug/L		03/03/22 15:58	03/04/22 17:06	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/03/22 15:58	03/04/22 17:06	1
Pentachlorophenol	ND		10	0.79	ug/L		03/03/22 15:58	03/04/22 17:06	1
Phenanthrene	ND		5.0	0.30	ug/L		03/03/22 15:58	03/04/22 17:06	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-616732/1-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		03/03/22 15:58	03/04/22 17:06	1
Pyrene	ND		5.0	0.35	ug/L		03/03/22 15:58	03/04/22 17:06	1
n-Octadecane	ND		10	0.30	ug/L		03/03/22 15:58	03/04/22 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*52 - 151*	*03/03/22 15:58*	*03/04/22 17:06*	*1*
2-Fluorobiphenyl	*87*		*44 - 120*	*03/03/22 15:58*	*03/04/22 17:06*	*1*
2-Fluorophenol	*47*		*17 - 120*	*03/03/22 15:58*	*03/04/22 17:06*	*1*
Nitrobenzene-d5	*86*		*15 - 314*	*03/03/22 15:58*	*03/04/22 17:06*	*1*
p-Terphenyl-d14	*97*		*22 - 125*	*03/03/22 15:58*	*03/04/22 17:06*	*1*
Phenol-d5	*33*		*8 - 424*	*03/03/22 15:58*	*03/04/22 17:06*	*1*

Lab Sample ID: LCS 480-616732/2-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	40.8		ug/L		82	44 - 142
1,2-Dichlorobenzene	50.0	38.1		ug/L		76	32 - 129
1,3-Dichlorobenzene	50.0	36.6		ug/L		73	1 - 172
1,4-Dichlorobenzene	50.0	36.7		ug/L		73	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	41.1		ug/L		82	36 - 166
2,4,6-Trichlorophenol	50.0	49.7		ug/L		99	37 - 144
2,4-Dichlorophenol	50.0	49.6		ug/L		99	39 - 135
2,4-Dimethylphenol	50.0	49.2		ug/L		98	32 - 120
2,4-Dinitrophenol	100	115		ug/L		115	1 - 191
2,4-Dinitrotoluene	50.0	55.3		ug/L		111	39 - 139
2,6-Dinitrotoluene	50.0	51.7		ug/L		103	50 - 158
2-Chloronaphthalene	50.0	45.0		ug/L		90	60 - 120
2-Chlorophenol	50.0	44.3		ug/L		89	23 - 134
2-Nitrophenol	50.0	50.2		ug/L		100	29 - 182
3,3'-Dichlorobenzidine	100	105		ug/L		105	1 - 262
4,6-Dinitro-2-methylphenol	100	112		ug/L		112	1 - 181
4-Bromophenyl phenyl ether	50.0	51.2		ug/L		102	53 - 127
4-Chloro-3-methylphenol	50.0	51.9		ug/L		104	22 - 147
4-Chlorophenyl phenyl ether	50.0	49.5		ug/L		99	25 - 158
4-Nitrophenol	100	51.2		ug/L		51	1 - 132
Acenaphthene	50.0	47.0		ug/L		94	47 - 145
Acenaphthylene	50.0	45.6		ug/L		91	33 - 145
Anthracene	50.0	50.9		ug/L		102	27 - 133
Benzidine	100	ND		ug/L		11	1 - 120
Benzo[a]anthracene	50.0	52.1		ug/L		104	33 - 143
Benzo[a]pyrene	50.0	46.9		ug/L		94	17 - 163
Benzo[b]fluoranthene	50.0	53.2		ug/L		106	24 - 159
Benzo[g,h,i]perylene	50.0	54.3		ug/L		109	1 - 219
Benzo[k]fluoranthene	50.0	53.5		ug/L		107	11 - 162
Bis(2-chloroethoxy)methane	50.0	46.6		ug/L		93	33 - 184
Bis(2-chloroethyl)ether	50.0	44.2		ug/L		88	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-616732/2-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	50.0	51.6		ug/L		103	8 - 158
Butyl benzyl phthalate	50.0	52.7		ug/L		105	1 - 152
Chrysene	50.0	51.3		ug/L		103	17 - 168
Di-n-butyl phthalate	50.0	52.8		ug/L		106	1 - 120
Di-n-octyl phthalate	50.0	53.6		ug/L		107	4 - 146
Dibenz(a,h)anthracene	50.0	54.8		ug/L		110	1 - 227
Diethyl phthalate	50.0	52.5		ug/L		105	1 - 120
Dimethyl phthalate	50.0	51.5		ug/L		103	1 - 120
Fluoranthene	50.0	54.3		ug/L		109	26 - 137
Fluorene	50.0	50.2		ug/L		100	59 - 121
Hexachlorobenzene	50.0	50.3		ug/L		101	1 - 152
Hexachlorocyclopentadiene	50.0	36.8		ug/L		74	5 - 120
Hexachloroethane	50.0	35.5		ug/L		71	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.8		ug/L		110	1 - 171
Isophorone	50.0	48.6		ug/L		97	21 - 196
N-Nitrosodi-n-propylamine	50.0	47.4		ug/L		95	1 - 230
N-Nitrosodiphenylamine	50.0	51.4		ug/L		103	54 - 125
Naphthalene	50.0	43.3		ug/L		87	21 - 133
Nitrobenzene	50.0	46.7		ug/L		93	35 - 180
Pentachlorophenol	100	122		ug/L		122	14 - 176
Phenanthrene	50.0	51.3		ug/L		103	54 - 120
Phenol	50.0	19.7		ug/L		39	5 - 120
Pyrene	50.0	52.9		ug/L		106	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*52 - 151*
2-Fluorobiphenyl	*92*		*44 - 120*
2-Fluorophenol	*52*		*17 - 120*
Nitrobenzene-d5	*95*		*15 - 314*
p-Terphenyl-d14	*104*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Lab Sample ID: LCSD 480-616732/3-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616732

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	38.5		ug/L		77	44 - 142	6	34
1,2-Dichlorobenzene	50.0	35.8		ug/L		72	32 - 129	6	38
1,3-Dichlorobenzene	50.0	34.8		ug/L		70	1 - 172	5	37
1,4-Dichlorobenzene	50.0	35.8		ug/L		72	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	50.0	39.4		ug/L		79	36 - 166	4	36
2,4,6-Trichlorophenol	50.0	47.8		ug/L		96	37 - 144	4	20
2,4-Dichlorophenol	50.0	46.2		ug/L		92	39 - 135	7	23
2,4-Dimethylphenol	50.0	46.2		ug/L		92	32 - 120	6	18
2,4-Dinitrophenol	100	114		ug/L		114	1 - 191	1	29
2,4-Dinitrotoluene	50.0	54.0		ug/L		108	39 - 139	2	20
2,6-Dinitrotoluene	50.0	51.1		ug/L		102	50 - 158	1	17

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-195419-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-616732/3-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616732

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	43.6		ug/L		87	60 - 120	3	30
2-Chlorophenol			50.0	42.0		ug/L		84	23 - 134	5	26
2-Nitrophenol			50.0	48.4		ug/L		97	29 - 182	4	28
3,3'-Dichlorobenzidine			100	97.9		ug/L		98	1 - 262	7	31
4,6-Dinitro-2-methylphenol			100	108		ug/L		108	1 - 181	4	30
4-Bromophenyl phenyl ether			50.0	47.7		ug/L		95	53 - 127	7	16
4-Chloro-3-methylphenol			50.0	49.5		ug/L		99	22 - 147	5	16
4-Chlorophenyl phenyl ether			50.0	48.2		ug/L		96	25 - 158	3	15
4-Nitrophenol			100	51.8		ug/L		52	1 - 132	1	24
Acenaphthene			50.0	45.9		ug/L		92	47 - 145	2	25
Acenaphthylene			50.0	44.0		ug/L		88	33 - 145	3	22
Anthracene			50.0	49.0		ug/L		98	27 - 133	4	15
Benzidine			100	60.2	J *1	ug/L		60	1 - 120	140	50
Benzo[a]anthracene			50.0	50.6		ug/L		101	33 - 143	3	15
Benzo[a]pyrene			50.0	45.7		ug/L		91	17 - 163	3	15
Benzo[b]fluoranthene			50.0	52.4		ug/L		105	24 - 159	1	17
Benzo[g,h,i]perylene			50.0	51.8		ug/L		104	1 - 219	5	19
Benzo[k]fluoranthene			50.0	51.0		ug/L		102	11 - 162	5	19
Bis(2-chloroethoxy)methane			50.0	44.3		ug/L		89	33 - 184	5	23
Bis(2-chloroethyl)ether			50.0	43.3		ug/L		87	12 - 158	2	33
Bis(2-ethylhexyl) phthalate			50.0	50.4		ug/L		101	8 - 158	2	15
Butyl benzyl phthalate			50.0	52.0		ug/L		104	1 - 152	1	15
Chrysene			50.0	48.8		ug/L		98	17 - 168	5	15
Di-n-butyl phthalate			50.0	51.2		ug/L		102	1 - 120	3	15
Di-n-octyl phthalate			50.0	51.1		ug/L		102	4 - 146	5	15
Dibenz(a,h)anthracene			50.0	52.3		ug/L		105	1 - 227	5	18
Diethyl phthalate			50.0	51.3		ug/L		103	1 - 120	2	15
Dimethyl phthalate			50.0	49.9		ug/L		100	1 - 120	3	15
Fluoranthene			50.0	53.0		ug/L		106	26 - 137	2	15
Fluorene			50.0	48.0		ug/L		96	59 - 121	5	18
Hexachlorobenzene			50.0	49.2		ug/L		98	1 - 152	2	15
Hexachlorocyclopentadiene			50.0	36.1		ug/L		72	5 - 120	2	50
Hexachloroethane			50.0	34.0		ug/L		68	40 - 120	4	43
Indeno[1,2,3-cd]pyrene			50.0	52.2		ug/L		104	1 - 171	5	17
Isophorone			50.0	46.6		ug/L		93	21 - 196	4	21
N-Nitrosodi-n-propylamine			50.0	45.7		ug/L		91	1 - 230	4	23
N-Nitrosodiphenylamine			50.0	49.1		ug/L		98	54 - 125	5	15
Naphthalene			50.0	40.7		ug/L		81	21 - 133	6	31
Nitrobenzene			50.0	43.8		ug/L		88	35 - 180	6	27
Pentachlorophenol			100	117		ug/L		117	14 - 176	4	21
Phenanthrene			50.0	49.6		ug/L		99	54 - 120	4	16
Phenol			50.0	19.9		ug/L		40	5 - 120	1	36
Pyrene			50.0	50.6		ug/L		101	52 - 120	4	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*50*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-616732/3-A
Matrix: Water
Analysis Batch: 616774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 616732

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*90*		*15 - 314*
p-Terphenyl-d14	*102*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-616717/1-A
Matrix: Water
Analysis Batch: 617089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		03/04/22 09:32	03/07/22 19:24	1

Lab Sample ID: LCS 480-616717/2-A
Matrix: Water
Analysis Batch: 617089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.199		mg/L		100	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-616981/1-A
Matrix: Water
Analysis Batch: 617022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		03/07/22 11:05	03/07/22 13:41	1

Lab Sample ID: LCS 480-616981/2-A
Matrix: Water
Analysis Batch: 617022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00675		mg/L		101	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-616724/1-A
Matrix: Water
Analysis Batch: 616788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/03/22 15:39	03/04/22 08:52	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-616724/2-A
Matrix: Water
Analysis Batch: 616788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.242		mg/L		97	90 - 110		

Lab Sample ID: 480-195419-6 DU
Matrix: Water
Analysis Batch: 616788

Client Sample ID: COMPOSITE
Prep Type: Total/NA
Prep Batch: 616724

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.13			0.137		mg/L				4	15

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-617464/1
Matrix: Water
Analysis Batch: 617464

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	6.9		SU		99	99 - 101		

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 616688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-5	TRIP BLANK	Total/NA	Water	624.1	
480-195419-6	COMPOSITE	Total/NA	Water	624.1	
MB 480-616688/8	Method Blank	Total/NA	Water	624.1	
LCS 480-616688/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 616732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	625	
MB 480-616732/1-A	Method Blank	Total/NA	Water	625	
LCS 480-616732/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-616732/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 616774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	625.1	616732
MB 480-616732/1-A	Method Blank	Total/NA	Water	625.1	616732
LCS 480-616732/2-A	Lab Control Sample	Total/NA	Water	625.1	616732
LCSD 480-616732/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	616732

Metals

Prep Batch: 616717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	200.7	
MB 480-616717/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-616717/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 616981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	245.1	
MB 480-616981/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-616981/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 617022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	245.1	616981
MB 480-616981/1-A	Method Blank	Total/NA	Water	245.1	616981
LCS 480-616981/2-A	Lab Control Sample	Total/NA	Water	245.1	616981

Analysis Batch: 617089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	200.7 Rev 4.4	616717
MB 480-616717/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	616717
LCS 480-616717/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	616717

General Chemistry

Prep Batch: 616724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 616724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-616724/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-616724/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-195419-6 DU	COMPOSITE	Total/NA	Water	Distill/CN	

Analysis Batch: 616788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	335.4	616724
MB 480-616724/1-A	Method Blank	Total/NA	Water	335.4	616724
LCS 480-616724/2-A	Lab Control Sample	Total/NA	Water	335.4	616724
480-195419-6 DU	COMPOSITE	Total/NA	Water	335.4	616724

Analysis Batch: 617464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195419-6	COMPOSITE	Total/NA	Water	SM 4500 H+ B	
LCS 480-617464/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-195419-5
Date Collected: 03/02/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	616688	03/03/22 17:45	ATG	TAL BUF

Client Sample ID: COMPOSITE
Lab Sample ID: 480-195419-6
Date Collected: 03/03/22 00:00
Matrix: Water
Date Received: 03/02/22 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	616688	03/03/22 18:09	ATG	TAL BUF
Total/NA	Prep	625			616732	03/03/22 15:58	CMC	TAL BUF
Total/NA	Analysis	625.1		1	616774	03/04/22 19:08	JMM	TAL BUF
Total/NA	Prep	200.7			616717	03/04/22 09:32	NVK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	617089	03/07/22 20:01	LMH	TAL BUF
Total/NA	Prep	245.1			616981	03/07/22 11:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	617022	03/07/22 13:57	BMB	TAL BUF
Total/NA	Prep	Distill/CN			616724	03/03/22 15:39	JGO	TAL BUF
Total/NA	Analysis	335.4		1	616788	03/04/22 08:57	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	617464	03/10/22 13:15	PRD	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-195419-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195419-5	TRIP BLANK	Water	03/02/22 00:00	03/02/22 14:48
480-195419-6	COMPOSITE	Water	03/03/22 00:00	03/02/22 14:48

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-153387-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Syracuse	TAT Requested (days): Standard Turn		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)
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No		
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30125855		Other:
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001		
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056		
Site:	SSOW#:		

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N		
001-1	3/2/22	0700	G	Water									Lab To
001-2	↓	0900	↓	↓									Composite
001-3		1100											Samples
001-4		1300											
Trip Blank	—	—	—										
													Short Hold Time

480-195419 Chain of Custody

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
Jason Gutkowski	3/2/22 / 1440	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/4/22 1478	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9 #1 ICE

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-195419-1

Login Number: 195419
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	2.9 #1 ICE
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: June 30, 2022
Our Ref: 30125855
Subject: **Discharge Monitoring Report – Second Quarter 2022**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this second quarter 2022 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period April 1 through June 30, 2022. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 109,806 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 3/28/2022 to 6/27/2022). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the second quarter 2022.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the April, May, and June monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

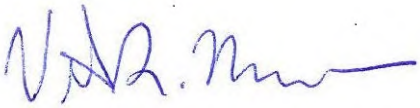
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In April, May, and June 2022, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
June 30, 2022

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

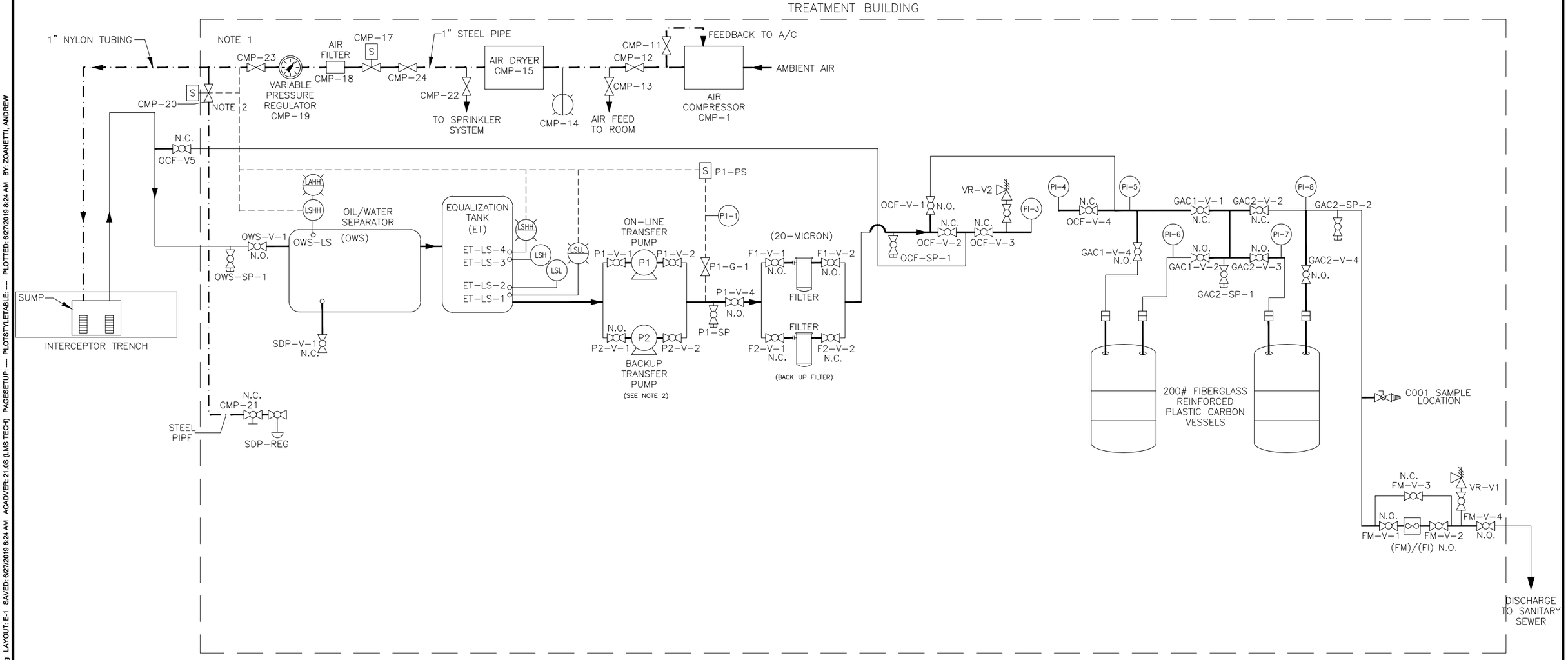
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

- A Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	4/4/22	→	→	→	JTG
Sample Time	0735	0935	1135	1335	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	Sunny 33°F	Sunny 35°F	Sunny 36°F	Sunny 39°F	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski — Sample Technician

4/4/22 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	5/2/22	→	→	→	JT6
Sample Time	0735	0935	1135	1335	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	48°F Light Rain	47°F Overcast	48°F Overcast	52°F Overcast	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski 5/2/22

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	6/1/22	→	→	→	JT6
Sample Time	0700	0900	1100	1300	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	68°F Overcast	75°F Overcast	72°F Overcast	69°F Overcast	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 6/1/22

Sample Technician Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	3/28/2022	4/4/2022	4/12/2022	4/18/2022	4/25/2022	5/2/2022	5/9/2022
Totalizer	gal	NA	847,758	857,025	867,722	875,502	884,467	893,320	902,279
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	1.10E-03	NS	NS	NS	1.58E-04	NS
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
pH	SU	5.0-12.0	NS	7.1	NS	NS	NS	7.8	NS
Total Daily Flow	gal	14,400	-	1,324	1,337	1,297	1,281	1,265	1,280

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	5/16/2022	5/23/2022	6/1/2022	6/6/2022	6/13/2022	6/20/2022	6/27/2022
Totalizer	gal	NA	910,606	918,628	929,070	934,872	942,639	950,220	957,564
Total Mercury	lbs	0.00001**	NS	NS	ND	NS	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	ND	NS	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	1.26E-03	NS	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	ND	NS	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	ND *+	NS	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	7.4	NS	NS	NS	NS
Total Daily Flow	gal	14,400	1,190	1,146	1,160	1,160	1,110	1,083	1,049

Notes:

HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
*1 - LCS/LCSD RPD exceeds control limits.
*+ - LCS and/or LCSD is outside acceptance limits, high biased.
NA - Not Applicable
ND - Not Detected at the reporting limit
NS - Not Sampled
gal - Gallons
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-196382-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
4/13/2022 4:11:17 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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/MS Semi 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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-196382-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-196382-1

Comments
No additional comments.

Receipt
The samples were received on 4/4/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method 624.1: The following Volatile sample(s) was composited by the laboratory on 4/4/22 as requested by the client: 001-1-4 LAB COMP (480-196382-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

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

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

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001-1-4 LAB COMP (480-196382-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-196382-5

No Detections.

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-196382-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.10		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.4	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-196382-5
Date Collected: 04/04/22 00:00
Matrix: Water
Date Received: 04/04/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/22 17:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/22 17:30	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/22 17:30	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/22 17:30	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/22 17:30	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/22 17:30	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/22 17:30	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/22 17:30	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/22 17:30	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/22 17:30	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/22 17:30	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/22 17:30	1
Acrolein	ND		100	17	ug/L			04/04/22 17:30	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/22 17:30	1
Benzene	ND		5.0	0.60	ug/L			04/04/22 17:30	1
Bromoform	ND		5.0	0.47	ug/L			04/04/22 17:30	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/22 17:30	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/22 17:30	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/22 17:30	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/22 17:30	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/22 17:30	1
Chloroform	ND		5.0	0.54	ug/L			04/04/22 17:30	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/22 17:30	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/22 17:30	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/22 17:30	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/22 17:30	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/22 17:30	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/22 17:30	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/22 17:30	1
Toluene	ND		5.0	0.45	ug/L			04/04/22 17:30	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/22 17:30	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/22 17:30	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/22 17:30	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*04/04/22 17:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*04/04/22 17:30*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*04/04/22 17:30*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*04/04/22 17:30*	*1*

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-196382-6
Date Collected: 04/04/22 13:35
Matrix: Water
Date Received: 04/04/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/22 17:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/22 17:07	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/22 17:07	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-196382-6
Date Collected: 04/04/22 13:35
Matrix: Water
Date Received: 04/04/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/22 17:07	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/22 17:07	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/22 17:07	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/22 17:07	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/22 17:07	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/22 17:07	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/22 17:07	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/22 17:07	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/22 17:07	1
Acrolein	ND		100	17	ug/L			04/04/22 17:07	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/22 17:07	1
Benzene	ND		5.0	0.60	ug/L			04/04/22 17:07	1
Bromoform	ND		5.0	0.47	ug/L			04/04/22 17:07	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/22 17:07	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/22 17:07	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/22 17:07	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/22 17:07	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/22 17:07	1
Chloroform	ND		5.0	0.54	ug/L			04/04/22 17:07	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/22 17:07	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/22 17:07	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/22 17:07	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/22 17:07	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/22 17:07	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/22 17:07	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/22 17:07	1
Toluene	ND		5.0	0.45	ug/L			04/04/22 17:07	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/22 17:07	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/22 17:07	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/22 17:07	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*04/04/22 17:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*04/04/22 17:07*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*04/04/22 17:07*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/04/22 17:07*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		04/05/22 14:50	04/06/22 17:10	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		04/05/22 14:50	04/06/22 17:10	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		04/05/22 14:50	04/06/22 17:10	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		04/05/22 14:50	04/06/22 17:10	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		04/05/22 14:50	04/06/22 17:10	1

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-196382-1

Client Sample ID: 001-1-4 LAB COMP
Date Collected: 04/04/22 13:35
Date Received: 04/04/22 14:00

Lab Sample ID: 480-196382-6
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.40	ug/L		04/05/22 14:50	04/06/22 17:10	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 17:10	1
2-Chlorophenol	ND		5.0	0.17	ug/L		04/05/22 14:50	04/06/22 17:10	1
2-Nitrophenol	ND		5.0	0.18	ug/L		04/05/22 14:50	04/06/22 17:10	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 17:10	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		04/05/22 14:50	04/06/22 17:10	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 17:10	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 17:10	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 17:10	1
4-Nitrophenol	ND		15	0.49	ug/L		04/05/22 14:50	04/06/22 17:10	1
Acenaphthene	ND		5.0	0.20	ug/L		04/05/22 14:50	04/06/22 17:10	1
Acenaphthylene	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 17:10	1
Anthracene	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzidine	ND		80	14	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 17:10	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 17:10	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 17:10	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 17:10	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		04/05/22 14:50	04/06/22 17:10	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 17:10	1
Chrysene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
Decane	ND		10	0.40	ug/L		04/05/22 14:50	04/06/22 17:10	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 17:10	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 17:10	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 17:10	1
Diethyl phthalate	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 17:10	1
Fluoranthene	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 17:10	1
Fluorene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 17:10	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		04/05/22 14:50	04/06/22 17:10	1
Hexachloroethane	ND		5.0	0.15	ug/L		04/05/22 14:50	04/06/22 17:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 17:10	1
Isophorone	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 17:10	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 17:10	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		04/05/22 14:50	04/06/22 17:10	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		04/05/22 14:50	04/06/22 17:10	1
Naphthalene	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 17:10	1
Nitrobenzene	ND		5.0	0.20	ug/L		04/05/22 14:50	04/06/22 17:10	1
Pentachlorophenol	ND		10	0.79	ug/L		04/05/22 14:50	04/06/22 17:10	1
Phenanthrene	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 17:10	1
Phenol	ND		5.0	0.088	ug/L		04/05/22 14:50	04/06/22 17:10	1
Pyrene	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 17:10	1
n-Octadecane	ND		10	0.30	ug/L		04/05/22 14:50	04/06/22 17:10	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-196382-6

Date Collected: 04/04/22 13:35
Matrix: Water
Date Received: 04/04/22 14:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*52 - 151*	*04/05/22 14:50*	*04/06/22 17:10*	*1*
2-Fluorobiphenyl	*95*		*44 - 120*	*04/05/22 14:50*	*04/06/22 17:10*	*1*
2-Fluorophenol	*55*		*17 - 120*	*04/05/22 14:50*	*04/06/22 17:10*	*1*
Nitrobenzene-d5	*86*		*15 - 314*	*04/05/22 14:50*	*04/06/22 17:10*	*1*
p-Terphenyl-d14	*95*		*22 - 125*	*04/05/22 14:50*	*04/06/22 17:10*	*1*
Phenol-d5	*35*		*8 - 424*	*04/05/22 14:50*	*04/06/22 17:10*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/06/22 09:28	04/08/22 19:52	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		04/08/22 10:49	04/08/22 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.10**		0.010	0.0050	mg/L		04/05/22 12:54	04/05/22 14:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**	0.1	0.1	SU			04/08/22 17:20	1
Temperature	**20.4**	**HF**	0.001	0.001	Degrees C			04/08/22 17:20	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-196382-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-196382-5	TRIP BLANK	93	104	99	110
480-196382-6	001-1-4 LAB COMP	97	101	97	105
LCS 480-620346/6	Lab Control Sample	101	100	100	106
MB 480-620346/8	Method Blank	94	104	97	105

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-196382-6	001-1-4 LAB COMP	81	95	55	86	95	35
LCS 480-620526/2-A	Lab Control Sample	110	93	51	87	101	35
LCSD 480-620526/3-A	Lab Control Sample Dup	102	92	51	89	99	34
MB 480-620526/1-A	Method Blank	65	89	45	84	93	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-196382-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-620346/8
Matrix: Water
Analysis Batch: 620346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/22 16:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/22 16:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/22 16:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/22 16:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/22 16:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/22 16:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/22 16:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/22 16:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/22 16:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/22 16:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/22 16:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/22 16:26	1
Acrolein	ND		100	17	ug/L			04/04/22 16:26	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/22 16:26	1
Benzene	ND		5.0	0.60	ug/L			04/04/22 16:26	1
Bromoform	ND		5.0	0.47	ug/L			04/04/22 16:26	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/22 16:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/22 16:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/22 16:26	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/22 16:26	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/22 16:26	1
Chloroform	ND		5.0	0.54	ug/L			04/04/22 16:26	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/22 16:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/22 16:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/22 16:26	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/22 16:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/22 16:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/22 16:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/22 16:26	1
Toluene	ND		5.0	0.45	ug/L			04/04/22 16:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/22 16:26	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/22 16:26	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/22 16:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/22 16:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*04/04/22 16:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*04/04/22 16:26*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*04/04/22 16:26*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*04/04/22 16:26*	*1*

Lab Sample ID: LCS 480-620346/6
Matrix: Water
Analysis Batch: 620346

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	22.8		ug/L		114	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	21.2		ug/L		106	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-620346/6
Matrix: Water
Analysis Batch: 620346

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	52 - 150
1,1-Dichloroethane	20.0	21.6		ug/L		108	59 - 155
1,1-Dichloroethene	20.0	21.0		ug/L		105	1 - 234
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	18 - 190
1,2-Dichloroethane	20.0	20.4		ug/L		102	49 - 155
1,2-Dichloropropane	20.0	20.9		ug/L		105	1 - 210
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	59 - 156
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	18 - 190
2-Chloroethyl vinyl ether	20.0	20.8	J	ug/L		104	1 - 305
Benzene	20.0	21.2		ug/L		106	37 - 151
Bromoform	20.0	21.7		ug/L		109	45 - 169
Bromomethane	20.0	25.3		ug/L		126	1 - 242
Carbon tetrachloride	20.0	22.7		ug/L		113	70 - 140
Chlorobenzene	20.0	20.8		ug/L		104	37 - 160
Dibromochloromethane	20.0	20.9		ug/L		104	53 - 149
Chloroethane	20.0	21.5		ug/L		107	14 - 230
Chloroform	20.0	22.0		ug/L		110	51 - 138
Chloromethane	20.0	23.7		ug/L		119	1 - 273
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	1 - 227
Bromodichloromethane	20.0	20.8		ug/L		104	35 - 155
Ethylbenzene	20.0	21.5		ug/L		108	37 - 162
Methylene Chloride	20.0	21.8		ug/L		109	1 - 221
Tetrachloroethene	20.0	20.7		ug/L		103	64 - 148
Toluene	20.0	20.5		ug/L		102	47 - 150
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	17 - 183
Trichloroethene	20.0	20.1		ug/L		100	71 - 157
Trichlorofluoromethane	20.0	24.4		ug/L		122	17 - 181
Vinyl chloride	20.0	22.6		ug/L		113	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-620526/1-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		04/05/22 14:50	04/06/22 15:32	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		04/05/22 14:50	04/06/22 15:32	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		04/05/22 14:50	04/06/22 15:32	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		04/05/22 14:50	04/06/22 15:32	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-620526/1-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		04/05/22 14:50	04/06/22 15:32	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 15:32	1
2-Chlorophenol	ND		5.0	0.17	ug/L		04/05/22 14:50	04/06/22 15:32	1
2-Nitrophenol	ND		5.0	0.18	ug/L		04/05/22 14:50	04/06/22 15:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 15:32	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		04/05/22 14:50	04/06/22 15:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 15:32	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 15:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 15:32	1
4-Nitrophenol	ND		15	0.49	ug/L		04/05/22 14:50	04/06/22 15:32	1
Acenaphthene	ND		5.0	0.20	ug/L		04/05/22 14:50	04/06/22 15:32	1
Acenaphthylene	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 15:32	1
Anthracene	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzidine	ND		80	14	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 15:32	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		04/05/22 14:50	04/06/22 15:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 15:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 15:32	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		04/05/22 14:50	04/06/22 15:32	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		04/05/22 14:50	04/06/22 15:32	1
Chrysene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
Decane	ND		10	0.40	ug/L		04/05/22 14:50	04/06/22 15:32	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 15:32	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 15:32	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 15:32	1
Diethyl phthalate	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		04/05/22 14:50	04/06/22 15:32	1
Fluoranthene	ND		5.0	0.40	ug/L		04/05/22 14:50	04/06/22 15:32	1
Fluorene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		04/05/22 14:50	04/06/22 15:32	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		04/05/22 14:50	04/06/22 15:32	1
Hexachloroethane	ND		5.0	0.15	ug/L		04/05/22 14:50	04/06/22 15:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		04/05/22 14:50	04/06/22 15:32	1
Isophorone	ND		5.0	0.19	ug/L		04/05/22 14:50	04/06/22 15:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 15:32	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		04/05/22 14:50	04/06/22 15:32	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		04/05/22 14:50	04/06/22 15:32	1
Naphthalene	ND		5.0	0.22	ug/L		04/05/22 14:50	04/06/22 15:32	1
Nitrobenzene	ND		5.0	0.20	ug/L		04/05/22 14:50	04/06/22 15:32	1
Pentachlorophenol	ND		10	0.79	ug/L		04/05/22 14:50	04/06/22 15:32	1
Phenanthrene	ND		5.0	0.30	ug/L		04/05/22 14:50	04/06/22 15:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-620526/1-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		04/05/22 14:50	04/06/22 15:32	1
Pyrene	ND		5.0	0.35	ug/L		04/05/22 14:50	04/06/22 15:32	1
n-Octadecane	ND		10	0.30	ug/L		04/05/22 14:50	04/06/22 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*52 - 151*	*04/05/22 14:50*	*04/06/22 15:32*	*1*
2-Fluorobiphenyl	*89*		*44 - 120*	*04/05/22 14:50*	*04/06/22 15:32*	*1*
2-Fluorophenol	*45*		*17 - 120*	*04/05/22 14:50*	*04/06/22 15:32*	*1*
Nitrobenzene-d5	*84*		*15 - 314*	*04/05/22 14:50*	*04/06/22 15:32*	*1*
p-Terphenyl-d14	*93*		*22 - 125*	*04/05/22 14:50*	*04/06/22 15:32*	*1*
Phenol-d5	*30*		*8 - 424*	*04/05/22 14:50*	*04/06/22 15:32*	*1*

Lab Sample ID: LCS 480-620526/2-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	43.6		ug/L		87	44 - 142
1,2-Dichlorobenzene	50.0	38.5		ug/L		77	32 - 129
1,3-Dichlorobenzene	50.0	36.7		ug/L		73	1 - 172
1,4-Dichlorobenzene	50.0	37.9		ug/L		76	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	35.7		ug/L		71	36 - 166
2,4,6-Trichlorophenol	50.0	47.5		ug/L		95	37 - 144
2,4-Dichlorophenol	50.0	47.2		ug/L		94	39 - 135
2,4-Dimethylphenol	50.0	47.0		ug/L		94	32 - 120
2,4-Dinitrophenol	100	118		ug/L		118	1 - 191
2,4-Dinitrotoluene	50.0	53.1		ug/L		106	39 - 139
2,6-Dinitrotoluene	50.0	49.4		ug/L		99	50 - 158
2-Chloronaphthalene	50.0	43.5		ug/L		87	60 - 120
2-Chlorophenol	50.0	39.7		ug/L		79	23 - 134
2-Nitrophenol	50.0	48.8		ug/L		98	29 - 182
3,3'-Dichlorobenzidine	100	98.2		ug/L		98	1 - 262
4,6-Dinitro-2-methylphenol	100	112		ug/L		112	1 - 181
4-Bromophenyl phenyl ether	50.0	48.3		ug/L		97	53 - 127
4-Chloro-3-methylphenol	50.0	45.1		ug/L		90	22 - 147
4-Chlorophenyl phenyl ether	50.0	47.9		ug/L		96	25 - 158
4-Nitrophenol	100	48.9		ug/L		49	1 - 132
Acenaphthene	50.0	45.1		ug/L		90	47 - 145
Acenaphthylene	50.0	43.8		ug/L		88	33 - 145
Anthracene	50.0	47.6		ug/L		95	27 - 133
Benzidine	100	51.3	J	ug/L		51	1 - 120
Benzo[a]anthracene	50.0	48.9		ug/L		98	33 - 143
Benzo[a]pyrene	50.0	45.3		ug/L		91	17 - 163
Benzo[b]fluoranthene	50.0	48.8		ug/L		98	24 - 159
Benzo[g,h,i]perylene	50.0	50.2		ug/L		100	1 - 219
Benzo[k]fluoranthene	50.0	51.5		ug/L		103	11 - 162
Bis(2-chloroethoxy)methane	50.0	44.1		ug/L		88	33 - 184
Bis(2-chloroethyl)ether	50.0	40.8		ug/L		82	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-620526/2-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	48.7		ug/L		97	8 - 158
Butyl benzyl phthalate	50.0	50.0		ug/L		100	1 - 152
Chrysene	50.0	48.1		ug/L		96	17 - 168
Di-n-butyl phthalate	50.0	50.2		ug/L		100	1 - 120
Di-n-octyl phthalate	50.0	51.8		ug/L		104	4 - 146
Dibenz(a,h)anthracene	50.0	51.3		ug/L		103	1 - 227
Diethyl phthalate	50.0	49.7		ug/L		99	1 - 120
Dimethyl phthalate	50.0	49.5		ug/L		99	1 - 120
Fluoranthene	50.0	52.0		ug/L		104	26 - 137
Fluorene	50.0	47.0		ug/L		94	59 - 121
Hexachlorobenzene	50.0	50.3		ug/L		101	1 - 152
Hexachlorocyclopentadiene	50.0	39.9		ug/L		80	5 - 120
Hexachloroethane	50.0	35.0		ug/L		70	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	50.6		ug/L		101	1 - 171
Isophorone	50.0	45.1		ug/L		90	21 - 196
N-Nitrosodi-n-propylamine	50.0	42.0		ug/L		84	1 - 230
N-Nitrosodiphenylamine	50.0	48.2		ug/L		96	54 - 125
Naphthalene	50.0	43.0		ug/L		86	21 - 133
Nitrobenzene	50.0	43.1		ug/L		86	35 - 180
Pentachlorophenol	100	107		ug/L		107	14 - 176
Phenanthrene	50.0	47.9		ug/L		96	54 - 120
Phenol	50.0	19.9		ug/L		40	5 - 120
Pyrene	50.0	49.5		ug/L		99	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*
Nitrobenzene-d5	*87*		*15 - 314*
p-Terphenyl-d14	*101*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Lab Sample ID: LCSD 480-620526/3-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	44.4		ug/L		89	44 - 142	2	34
1,2-Dichlorobenzene	50.0	41.3		ug/L		83	32 - 129	7	38
1,3-Dichlorobenzene	50.0	40.0		ug/L		80	1 - 172	9	37
1,4-Dichlorobenzene	50.0	40.3		ug/L		81	20 - 124	6	40
2,2'-Oxybis(1-chloropropane)	50.0	37.0		ug/L		74	36 - 166	3	36
2,4,6-Trichlorophenol	50.0	46.9		ug/L		94	37 - 144	1	20
2,4-Dichlorophenol	50.0	46.1		ug/L		92	39 - 135	2	23
2,4-Dimethylphenol	50.0	45.9		ug/L		92	32 - 120	2	18
2,4-Dinitrophenol	100	119		ug/L		119	1 - 191	1	29
2,4-Dinitrotoluene	50.0	52.1		ug/L		104	39 - 139	2	20
2,6-Dinitrotoluene	50.0	48.8		ug/L		98	50 - 158	1	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-620526/3-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620526

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	44.6		ug/L		89	60 - 120	2	30
2-Chlorophenol			50.0	41.2		ug/L		82	23 - 134	4	26
2-Nitrophenol			50.0	49.9		ug/L		100	29 - 182	2	28
3,3'-Dichlorobenzidine			100	101		ug/L		101	1 - 262	3	31
4,6-Dinitro-2-methylphenol			100	108		ug/L		108	1 - 181	3	30
4-Bromophenyl phenyl ether			50.0	48.2		ug/L		96	53 - 127	0	16
4-Chloro-3-methylphenol			50.0	44.7		ug/L		89	22 - 147	1	16
4-Chlorophenyl phenyl ether			50.0	47.6		ug/L		95	25 - 158	1	15
4-Nitrophenol			100	44.6		ug/L		45	1 - 132	9	24
Acenaphthene			50.0	46.8		ug/L		94	47 - 145	4	25
Acenaphthylene			50.0	45.4		ug/L		91	33 - 145	4	22
Anthracene			50.0	49.4		ug/L		99	27 - 133	4	15
Benzidine			100	79.1	J	ug/L		79	1 - 120	43	50
Benzo[a]anthracene			50.0	49.8		ug/L		100	33 - 143	2	15
Benzo[a]pyrene			50.0	43.7		ug/L		87	17 - 163	4	15
Benzo[b]fluoranthene			50.0	48.6		ug/L		97	24 - 159	0	17
Benzo[g,h,i]perylene			50.0	49.9		ug/L		100	1 - 219	0	19
Benzo[k]fluoranthene			50.0	50.6		ug/L		101	11 - 162	2	19
Bis(2-chloroethoxy)methane			50.0	43.5		ug/L		87	33 - 184	1	23
Bis(2-chloroethyl)ether			50.0	41.4		ug/L		83	12 - 158	2	33
Bis(2-ethylhexyl) phthalate			50.0	49.0		ug/L		98	8 - 158	1	15
Butyl benzyl phthalate			50.0	51.1		ug/L		102	1 - 152	2	15
Chrysene			50.0	49.0		ug/L		98	17 - 168	2	15
Di-n-butyl phthalate			50.0	48.9		ug/L		98	1 - 120	2	15
Di-n-octyl phthalate			50.0	51.5		ug/L		103	4 - 146	1	15
Dibenz(a,h)anthracene			50.0	50.8		ug/L		102	1 - 227	1	18
Diethyl phthalate			50.0	49.5		ug/L		99	1 - 120	0	15
Dimethyl phthalate			50.0	48.3		ug/L		97	1 - 120	3	15
Fluoranthene			50.0	50.0		ug/L		100	26 - 137	4	15
Fluorene			50.0	47.2		ug/L		94	59 - 121	0	18
Hexachlorobenzene			50.0	46.2		ug/L		92	1 - 152	8	15
Hexachlorocyclopentadiene			50.0	44.1		ug/L		88	5 - 120	10	50
Hexachloroethane			50.0	38.7		ug/L		77	40 - 120	10	43
Indeno[1,2,3-cd]pyrene			50.0	51.3		ug/L		103	1 - 171	1	17
Isophorone			50.0	44.9		ug/L		90	21 - 196	0	21
N-Nitrosodi-n-propylamine			50.0	41.9		ug/L		84	1 - 230	0	23
N-Nitrosodiphenylamine			50.0	47.9		ug/L		96	54 - 125	0	15
Naphthalene			50.0	45.0		ug/L		90	21 - 133	4	31
Nitrobenzene			50.0	44.7		ug/L		89	35 - 180	4	27
Pentachlorophenol			100	98.0		ug/L		98	14 - 176	9	21
Phenanthrene			50.0	49.2		ug/L		98	54 - 120	3	16
Phenol			50.0	19.0		ug/L		38	5 - 120	5	36
Pyrene			50.0	49.9		ug/L		100	52 - 120	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*52 - 151*
2-Fluorobiphenyl	*92*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-620526/3-A
Matrix: Water
Analysis Batch: 620585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 620526

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*89*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*34*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-620536/1-A
Matrix: Water
Analysis Batch: 621080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/06/22 09:28	04/08/22 19:45	1

Lab Sample ID: LCS 480-620536/2-A
Matrix: Water
Analysis Batch: 621080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.211		mg/L		106	85 - 115

Lab Sample ID: 480-196382-6 MS
Matrix: Water
Analysis Batch: 621080

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 620536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND		0.200	0.224		mg/L		112	70 - 130

Lab Sample ID: 480-196382-6 MSD
Matrix: Water
Analysis Batch: 621080

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 620536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	ND		0.200	0.208		mg/L		104	70 - 130	7	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-620864/1-A
Matrix: Water
Analysis Batch: 621040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		04/08/22 10:49	04/08/22 13:44	1

Lab Sample ID: LCS 480-620864/2-A
Matrix: Water
Analysis Batch: 621040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00703		mg/L		105	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-620503/1-A
Matrix: Water
Analysis Batch: 620531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		04/05/22 12:54	04/05/22 14:26	1

Lab Sample ID: LCS 480-620503/2-A
Matrix: Water
Analysis Batch: 620531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620503

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.259		mg/L		104	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-621115/64
Matrix: Water
Analysis Batch: 621115

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-196382-6 DU
Matrix: Water
Analysis Batch: 621115

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.1	HF		7.0		SU				0.4	5
Temperature	20.4	HF		20.4		Degrees C				0	10

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 620346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-5	TRIP BLANK	Total/NA	Water	624.1	
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	624.1	
MB 480-620346/8	Method Blank	Total/NA	Water	624.1	
LCS 480-620346/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 620526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	625	
MB 480-620526/1-A	Method Blank	Total/NA	Water	625	
LCS 480-620526/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-620526/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 620585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	625.1	620526
MB 480-620526/1-A	Method Blank	Total/NA	Water	625.1	620526
LCS 480-620526/2-A	Lab Control Sample	Total/NA	Water	625.1	620526
LCSD 480-620526/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	620526

Metals

Prep Batch: 620536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	200.7	
MB 480-620536/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-620536/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-196382-6 MS	001-1-4 LAB COMP	Total/NA	Water	200.7	
480-196382-6 MSD	001-1-4 LAB COMP	Total/NA	Water	200.7	

Prep Batch: 620864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	245.1	
MB 480-620864/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-620864/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 621040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	245.1	620864
MB 480-620864/1-A	Method Blank	Total/NA	Water	245.1	620864
LCS 480-620864/2-A	Lab Control Sample	Total/NA	Water	245.1	620864

Analysis Batch: 621080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	620536
MB 480-620536/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	620536
LCS 480-620536/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	620536
480-196382-6 MS	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	620536
480-196382-6 MSD	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	620536

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Prep Batch: 620503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	Distill/CN	
MB 480-620503/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-620503/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 620531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	335.4	620503
MB 480-620503/1-A	Method Blank	Total/NA	Water	335.4	620503
LCS 480-620503/2-A	Lab Control Sample	Total/NA	Water	335.4	620503

Analysis Batch: 621115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196382-6	001-1-4 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-621115/64	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-196382-6 DU	001-1-4 LAB COMP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-196382-5
Date Collected: 04/04/22 00:00
Matrix: Water
Date Received: 04/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	620346	04/04/22 17:30	ATG	TAL BUF

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-196382-6
Date Collected: 04/04/22 13:35
Matrix: Water
Date Received: 04/04/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	620346	04/04/22 17:07	ATG	TAL BUF
Total/NA	Prep	625			620526	04/05/22 14:50	CMC	TAL BUF
Total/NA	Analysis	625.1		1	620585	04/06/22 17:10	JMM	TAL BUF
Total/NA	Prep	200.7			620536	04/06/22 09:28	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	621080	04/08/22 19:52	LMH	TAL BUF
Total/NA	Prep	245.1			620864	04/08/22 10:49	NVK	TAL BUF
Total/NA	Analysis	245.1		1	621040	04/08/22 13:48	BMB	TAL BUF
Total/NA	Prep	Distill/CN			620503	04/05/22 12:54	JGO	TAL BUF
Total/NA	Analysis	335.4		1	620531	04/05/22 14:43	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	621115	04/08/22 17:20	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-196382-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-196382-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196382-5	TRIP BLANK	Water	04/04/22 00:00	04/04/22 14:00
480-196382-6	001-1-4 LAB COMP	Water	04/04/22 13:35	04/04/22 14:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171456-34075.1
Client Contact: Jason Gutkowski	Phone: 315 4363605	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
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	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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	4/4/22	0735	6	Water			X	X	X	X	X	X		Lab To
001-2	↓	0935	↓	Water			X	X	X	X	X	X		Composite
001-3		1135		↓			X	X	X	X	X	X		Samples
001-4		1335					X	X	X	X	X	X		
Trip Blank	—	—										X		Short Hold Time

480-196382 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained ...)
☐ 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
Jason Gutkowski	4/4/22 / 1355	Arcadis	Cyn	4-4-22 1400	TAB
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.:	Cooler Temperature(s) °C and Other Remarks: 2.1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-196382-1

Login Number: 196382
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197443-1
Client Project/Site: Iroquois Gas/Westwood Pharm.

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Judy Stone

Authorized for release by:
5/11/2022 3:57:34 PM
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS 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/MS Semi 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.

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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-197443-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-197443-1

Comments
No additional comments.

Receipt
The samples were received on 5/2/2022 2:19 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 5/4 as requested by the client: 001-1-4 LAB COMP (480-197443-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-624486 recovered outside acceptance criteria, low biased, for Acrylonitrile. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for the analyte, the data are reported.

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

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

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

General Chemistry
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001-1-4 LAB COMP (480-197443-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-197443-5

No Detections.

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-197443-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.015		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.5	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-197443-5
Date Collected: 05/02/22 00:00
Matrix: Water
Date Received: 05/02/22 14:19

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/04/22 16:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/04/22 16:34	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/04/22 16:34	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/04/22 16:34	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/04/22 16:34	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/04/22 16:34	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/04/22 16:34	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/04/22 16:34	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/04/22 16:34	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/04/22 16:34	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/04/22 16:34	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/04/22 16:34	1
Acrolein	ND		100	17	ug/L			05/04/22 16:34	1
Acrylonitrile	ND		50	1.9	ug/L			05/04/22 16:34	1
Benzene	ND		5.0	0.60	ug/L			05/04/22 16:34	1
Bromoform	ND		5.0	0.47	ug/L			05/04/22 16:34	1
Bromomethane	ND		5.0	1.2	ug/L			05/04/22 16:34	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/04/22 16:34	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/04/22 16:34	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/04/22 16:34	1
Chloroethane	ND		5.0	0.87	ug/L			05/04/22 16:34	1
Chloroform	ND		5.0	0.54	ug/L			05/04/22 16:34	1
Chloromethane	ND		5.0	0.64	ug/L			05/04/22 16:34	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/04/22 16:34	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/04/22 16:34	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/04/22 16:34	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/04/22 16:34	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/04/22 16:34	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/04/22 16:34	1
Toluene	ND		5.0	0.45	ug/L			05/04/22 16:34	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/04/22 16:34	1
Trichloroethene	ND		5.0	0.60	ug/L			05/04/22 16:34	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/04/22 16:34	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/04/22 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*05/04/22 16:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*05/04/22 16:34*	*1*
Toluene-d8 (Surr)	*93*		*77 - 120*		*05/04/22 16:34*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/04/22 16:34*	*1*

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-197443-6
Date Collected: 05/02/22 13:35
Matrix: Water
Date Received: 05/02/22 14:19

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/04/22 16:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/04/22 16:58	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/04/22 16:58	1

Client Sample ID: 001-1-4 LAB COMP
Date Collected: 05/02/22 13:35
Date Received: 05/02/22 14:19

Lab Sample ID: 480-197443-6
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/04/22 16:58	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/04/22 16:58	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/04/22 16:58	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/04/22 16:58	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/04/22 16:58	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/04/22 16:58	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/04/22 16:58	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/04/22 16:58	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/04/22 16:58	1
Acrolein	ND		100	17	ug/L			05/04/22 16:58	1
Acrylonitrile	ND		50	1.9	ug/L			05/04/22 16:58	1
Benzene	ND		5.0	0.60	ug/L			05/04/22 16:58	1
Bromoform	ND		5.0	0.47	ug/L			05/04/22 16:58	1
Bromomethane	ND		5.0	1.2	ug/L			05/04/22 16:58	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/04/22 16:58	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/04/22 16:58	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/04/22 16:58	1
Chloroethane	ND		5.0	0.87	ug/L			05/04/22 16:58	1
Chloroform	ND		5.0	0.54	ug/L			05/04/22 16:58	1
Chloromethane	ND		5.0	0.64	ug/L			05/04/22 16:58	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/04/22 16:58	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/04/22 16:58	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/04/22 16:58	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/04/22 16:58	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/04/22 16:58	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/04/22 16:58	1
Toluene	ND		5.0	0.45	ug/L			05/04/22 16:58	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/04/22 16:58	1
Trichloroethene	ND		5.0	0.60	ug/L			05/04/22 16:58	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/04/22 16:58	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/04/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*05/04/22 16:58*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 123*		*05/04/22 16:58*	*1*
Toluene-d8 (Surr)	*94*		*77 - 120*		*05/04/22 16:58*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*05/04/22 16:58*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		05/05/22 09:36	05/06/22 15:52	1
1,2-Dichlorobenzene	ND		10	0.27	ug/L		05/05/22 09:36	05/06/22 15:52	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		05/05/22 09:36	05/06/22 15:52	1
1,3-Dichlorobenzene	ND		10	0.18	ug/L		05/05/22 09:36	05/06/22 15:52	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,2'-Oxybis(1-chloropropane)	ND		5.2	0.22	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,4,6-Trichlorophenol	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,4-Dichlorophenol	ND		5.2	0.20	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,4-Dimethylphenol	ND		5.2	0.36	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		05/05/22 09:36	05/06/22 15:52	1

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-197443-6
Date Collected: 05/02/22 13:35
Matrix: Water
Date Received: 05/02/22 14:19

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.41	ug/L		05/05/22 09:36	05/06/22 15:52	1
2,6-Dinitrotoluene	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
2-Chloronaphthalene	ND		5.2	0.23	ug/L		05/05/22 09:36	05/06/22 15:52	1
2-Chlorophenol	ND		5.2	0.17	ug/L		05/05/22 09:36	05/06/22 15:52	1
2-Nitrophenol	ND		5.2	0.18	ug/L		05/05/22 09:36	05/06/22 15:52	1
3,3'-Dichlorobenzidine	ND		5.2	0.41	ug/L		05/05/22 09:36	05/06/22 15:52	1
4,6-Dinitro-2-methylphenol	ND		10	0.46	ug/L		05/05/22 09:36	05/06/22 15:52	1
4-Bromophenyl phenyl ether	ND		5.2	0.36	ug/L		05/05/22 09:36	05/06/22 15:52	1
4-Chloro-3-methylphenol	ND		5.2	0.28	ug/L		05/05/22 09:36	05/06/22 15:52	1
4-Chlorophenyl phenyl ether	ND		5.2	0.34	ug/L		05/05/22 09:36	05/06/22 15:52	1
4-Nitrophenol	ND		15	0.50	ug/L		05/05/22 09:36	05/06/22 15:52	1
Acenaphthene	ND		5.2	0.21	ug/L		05/05/22 09:36	05/06/22 15:52	1
Acenaphthylene	ND		5.2	0.22	ug/L		05/05/22 09:36	05/06/22 15:52	1
Anthracene	ND		5.2	0.36	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzidine	ND		82	14	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzo[a]anthracene	ND		5.2	0.28	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzo[a]pyrene	ND		5.2	0.34	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzo[b]fluoranthene	ND		5.2	0.31	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzo[g,h,i]perylene	ND		5.2	0.39	ug/L		05/05/22 09:36	05/06/22 15:52	1
Benzo[k]fluoranthene	ND		5.2	0.34	ug/L		05/05/22 09:36	05/06/22 15:52	1
Bis(2-chloroethoxy)methane	ND		5.2	0.19	ug/L		05/05/22 09:36	05/06/22 15:52	1
Bis(2-chloroethyl)ether	ND		5.2	0.24	ug/L		05/05/22 09:36	05/06/22 15:52	1
Bis(2-ethylhexyl) phthalate	ND		10	0.31	ug/L		05/05/22 09:36	05/06/22 15:52	1
Butyl benzyl phthalate	ND		5.2	0.28	ug/L		05/05/22 09:36	05/06/22 15:52	1
Chrysene	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
Decane	ND		10	0.41	ug/L		05/05/22 09:36	05/06/22 15:52	1
Di-n-butyl phthalate	ND		5.2	0.41	ug/L		05/05/22 09:36	05/06/22 15:52	1
Di-n-octyl phthalate	ND		5.2	0.31	ug/L		05/05/22 09:36	05/06/22 15:52	1
Dibenz(a,h)anthracene	ND		5.2	0.39	ug/L		05/05/22 09:36	05/06/22 15:52	1
Diethyl phthalate	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
Dimethyl phthalate	ND		5.2	0.23	ug/L		05/05/22 09:36	05/06/22 15:52	1
Fluoranthene	ND		5.2	0.41	ug/L		05/05/22 09:36	05/06/22 15:52	1
Fluorene	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
Hexachlorobenzene	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
Hexachlorobutadiene	ND		5.2	0.26	ug/L		05/05/22 09:36	05/06/22 15:52	1
Hexachlorocyclopentadiene	ND		10	0.54	ug/L		05/05/22 09:36	05/06/22 15:52	1
Hexachloroethane	ND		5.2	0.15	ug/L		05/05/22 09:36	05/06/22 15:52	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.39	ug/L		05/05/22 09:36	05/06/22 15:52	1
Isophorone	ND		5.2	0.19	ug/L		05/05/22 09:36	05/06/22 15:52	1
N-Nitrosodi-n-propylamine	ND		5.2	0.23	ug/L		05/05/22 09:36	05/06/22 15:52	1
N-Nitrosodimethylamine	ND		10	0.15	ug/L		05/05/22 09:36	05/06/22 15:52	1
N-Nitrosodiphenylamine	ND		5.2	0.21	ug/L		05/05/22 09:36	05/06/22 15:52	1
Naphthalene	ND		5.2	0.22	ug/L		05/05/22 09:36	05/06/22 15:52	1
Nitrobenzene	ND		5.2	0.21	ug/L		05/05/22 09:36	05/06/22 15:52	1
Pentachlorophenol	ND		10	0.81	ug/L		05/05/22 09:36	05/06/22 15:52	1
Phenanthrene	ND		5.2	0.31	ug/L		05/05/22 09:36	05/06/22 15:52	1
Phenol	ND		5.2	0.090	ug/L		05/05/22 09:36	05/06/22 15:52	1
Pyrene	ND		5.2	0.36	ug/L		05/05/22 09:36	05/06/22 15:52	1
n-Octadecane	ND		10	0.31	ug/L		05/05/22 09:36	05/06/22 15:52	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-197443-6

Date Collected: 05/02/22 13:35
Matrix: Water
Date Received: 05/02/22 14:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*52 - 151*	*05/05/22 09:36*	*05/06/22 15:52*	*1*
2-Fluorobiphenyl	*98*		*44 - 120*	*05/05/22 09:36*	*05/06/22 15:52*	*1*
2-Fluorophenol	*55*		*17 - 120*	*05/05/22 09:36*	*05/06/22 15:52*	*1*
Nitrobenzene-d5	*98*		*15 - 314*	*05/05/22 09:36*	*05/06/22 15:52*	*1*
p-Terphenyl-d14	*108*		*22 - 125*	*05/05/22 09:36*	*05/06/22 15:52*	*1*
Phenol-d5	*40*		*8 - 424*	*05/05/22 09:36*	*05/06/22 15:52*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		05/09/22 09:36	05/10/22 17:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		05/10/22 10:21	05/10/22 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.015**		0.010	0.0050	mg/L		05/06/22 09:44	05/06/22 12:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.8**	**HF**	0.1	0.1	SU			05/06/22 01:22	1
Temperature	**20.5**	**HF**	0.001	0.001	Degrees C			05/06/22 01:22	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-197443-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-197443-5	TRIP BLANK	93	94	93	96
480-197443-6	001-1-4 LAB COMP	95	95	94	97
LCS 480-624486/6	Lab Control Sample	94	92	98	98
MB 480-624486/8	Method Blank	90	93	95	94

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-197443-6	001-1-4 LAB COMP	86	98	55	98	108	40
LCS 480-624677/2-A	Lab Control Sample	92	88	46	84	105	35
MB 480-624677/1-A	Method Blank	65	81	46	81	101	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-624486/8
Matrix: Water
Analysis Batch: 624486

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/04/22 12:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/04/22 12:47	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/04/22 12:47	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/04/22 12:47	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/04/22 12:47	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/04/22 12:47	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/04/22 12:47	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/04/22 12:47	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/04/22 12:47	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/04/22 12:47	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/04/22 12:47	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/04/22 12:47	1
Acrolein	ND		100	17	ug/L			05/04/22 12:47	1
Acrylonitrile	ND		50	1.9	ug/L			05/04/22 12:47	1
Benzene	ND		5.0	0.60	ug/L			05/04/22 12:47	1
Bromoform	ND		5.0	0.47	ug/L			05/04/22 12:47	1
Bromomethane	ND		5.0	1.2	ug/L			05/04/22 12:47	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/04/22 12:47	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/04/22 12:47	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/04/22 12:47	1
Chloroethane	ND		5.0	0.87	ug/L			05/04/22 12:47	1
Chloroform	ND		5.0	0.54	ug/L			05/04/22 12:47	1
Chloromethane	ND		5.0	0.64	ug/L			05/04/22 12:47	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/04/22 12:47	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/04/22 12:47	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/04/22 12:47	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/04/22 12:47	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/04/22 12:47	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/04/22 12:47	1
Toluene	ND		5.0	0.45	ug/L			05/04/22 12:47	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/04/22 12:47	1
Trichloroethene	ND		5.0	0.60	ug/L			05/04/22 12:47	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/04/22 12:47	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/04/22 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*68 - 130*		*05/04/22 12:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*05/04/22 12:47*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*05/04/22 12:47*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*05/04/22 12:47*	*1*

Lab Sample ID: LCS 480-624486/6
Matrix: Water
Analysis Batch: 624486

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	17.4		ug/L		87	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.1		ug/L		95	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-624486/6
Matrix: Water
Analysis Batch: 624486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	52 - 150
1,1-Dichloroethane	20.0	19.4		ug/L		97	59 - 155
1,1-Dichloroethene	20.0	19.4		ug/L		97	1 - 234
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
1,2-Dichloroethane	20.0	21.0		ug/L		105	49 - 155
1,2-Dichloropropane	20.0	23.1		ug/L		116	1 - 210
1,3-Dichlorobenzene	20.0	21.3		ug/L		106	59 - 156
1,4-Dichlorobenzene	20.0	21.3		ug/L		106	18 - 190
2-Chloroethyl vinyl ether	20.0	23.7	J	ug/L		118	1 - 305
Benzene	20.0	22.7		ug/L		114	37 - 151
Bromoform	20.0	20.3		ug/L		102	45 - 169
Bromomethane	20.0	23.9		ug/L		119	1 - 242
Carbon tetrachloride	20.0	20.1		ug/L		101	70 - 140
Chlorobenzene	20.0	21.8		ug/L		109	37 - 160
Dibromochloromethane	20.0	22.2		ug/L		111	53 - 149
Chloroethane	20.0	24.0		ug/L		120	14 - 230
Chloroform	20.0	21.8		ug/L		109	51 - 138
Chloromethane	20.0	22.0		ug/L		110	1 - 273
cis-1,3-Dichloropropene	20.0	22.9		ug/L		114	1 - 227
Bromodichloromethane	20.0	22.4		ug/L		112	35 - 155
Ethylbenzene	20.0	21.9		ug/L		110	37 - 162
Methylene Chloride	20.0	19.1		ug/L		95	1 - 221
Tetrachloroethene	20.0	22.4		ug/L		112	64 - 148
Toluene	20.0	22.8		ug/L		114	47 - 150
trans-1,3-Dichloropropene	20.0	21.6		ug/L		108	17 - 183
Trichloroethene	20.0	22.7		ug/L		114	71 - 157
Trichlorofluoromethane	20.0	24.5		ug/L		122	17 - 181
Vinyl chloride	20.0	23.4		ug/L		117	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*
4-Bromofluorobenzene (Surr)	*92*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-624677/1-A
Matrix: Water
Analysis Batch: 624827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		05/05/22 09:36	05/06/22 12:36	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		05/05/22 09:36	05/06/22 12:36	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		05/05/22 09:36	05/06/22 12:36	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		05/05/22 09:36	05/06/22 12:36	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-624677/1-A
Matrix: Water
Analysis Batch: 624827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		05/05/22 09:36	05/06/22 12:36	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		05/05/22 09:36	05/06/22 12:36	1
2-Chlorophenol	ND		5.0	0.17	ug/L		05/05/22 09:36	05/06/22 12:36	1
2-Nitrophenol	ND		5.0	0.18	ug/L		05/05/22 09:36	05/06/22 12:36	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/05/22 09:36	05/06/22 12:36	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		05/05/22 09:36	05/06/22 12:36	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		05/05/22 09:36	05/06/22 12:36	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		05/05/22 09:36	05/06/22 12:36	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		05/05/22 09:36	05/06/22 12:36	1
4-Nitrophenol	ND		15	0.49	ug/L		05/05/22 09:36	05/06/22 12:36	1
Acenaphthene	ND		5.0	0.20	ug/L		05/05/22 09:36	05/06/22 12:36	1
Acenaphthylene	ND		5.0	0.22	ug/L		05/05/22 09:36	05/06/22 12:36	1
Anthracene	ND		5.0	0.35	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzidine	ND		80	14	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		05/05/22 09:36	05/06/22 12:36	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		05/05/22 09:36	05/06/22 12:36	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		05/05/22 09:36	05/06/22 12:36	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		05/05/22 09:36	05/06/22 12:36	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		05/05/22 09:36	05/06/22 12:36	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		05/05/22 09:36	05/06/22 12:36	1
Chrysene	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
Decane	ND		10	0.40	ug/L		05/05/22 09:36	05/06/22 12:36	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		05/05/22 09:36	05/06/22 12:36	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		05/05/22 09:36	05/06/22 12:36	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		05/05/22 09:36	05/06/22 12:36	1
Diethyl phthalate	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		05/05/22 09:36	05/06/22 12:36	1
Fluoranthene	ND		5.0	0.40	ug/L		05/05/22 09:36	05/06/22 12:36	1
Fluorene	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		05/05/22 09:36	05/06/22 12:36	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		05/05/22 09:36	05/06/22 12:36	1
Hexachloroethane	ND		5.0	0.15	ug/L		05/05/22 09:36	05/06/22 12:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		05/05/22 09:36	05/06/22 12:36	1
Isophorone	ND		5.0	0.19	ug/L		05/05/22 09:36	05/06/22 12:36	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		05/05/22 09:36	05/06/22 12:36	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		05/05/22 09:36	05/06/22 12:36	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		05/05/22 09:36	05/06/22 12:36	1
Naphthalene	ND		5.0	0.22	ug/L		05/05/22 09:36	05/06/22 12:36	1
Nitrobenzene	ND		5.0	0.20	ug/L		05/05/22 09:36	05/06/22 12:36	1
Pentachlorophenol	ND		10	0.79	ug/L		05/05/22 09:36	05/06/22 12:36	1
Phenanthrene	ND		5.0	0.30	ug/L		05/05/22 09:36	05/06/22 12:36	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-624677/1-A
Matrix: Water
Analysis Batch: 624827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		05/05/22 09:36	05/06/22 12:36	1
Pyrene	ND		5.0	0.35	ug/L		05/05/22 09:36	05/06/22 12:36	1
n-Octadecane	ND		10	0.30	ug/L		05/05/22 09:36	05/06/22 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*52 - 151*	*05/05/22 09:36*	*05/06/22 12:36*	*1*
2-Fluorobiphenyl	*81*		*44 - 120*	*05/05/22 09:36*	*05/06/22 12:36*	*1*
2-Fluorophenol	*46*		*17 - 120*	*05/05/22 09:36*	*05/06/22 12:36*	*1*
Nitrobenzene-d5	*81*		*15 - 314*	*05/05/22 09:36*	*05/06/22 12:36*	*1*
p-Terphenyl-d14	*101*		*22 - 125*	*05/05/22 09:36*	*05/06/22 12:36*	*1*
Phenol-d5	*34*		*8 - 424*	*05/05/22 09:36*	*05/06/22 12:36*	*1*

Lab Sample ID: LCS 480-624677/2-A
Matrix: Water
Analysis Batch: 624827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	39.1		ug/L		78	44 - 142
1,2-Dichlorobenzene	50.0	36.4		ug/L		73	32 - 129
1,3-Dichlorobenzene	50.0	34.6		ug/L		69	1 - 172
1,4-Dichlorobenzene	50.0	35.5		ug/L		71	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	43.2		ug/L		86	36 - 166
2,4,6-Trichlorophenol	50.0	48.2		ug/L		96	37 - 144
2,4-Dichlorophenol	50.0	46.3		ug/L		93	39 - 135
2,4-Dimethylphenol	50.0	46.7		ug/L		93	32 - 120
2,4-Dinitrophenol	100	112		ug/L		112	1 - 191
2,4-Dinitrotoluene	50.0	55.7		ug/L		111	39 - 139
2,6-Dinitrotoluene	50.0	53.4		ug/L		107	50 - 158
2-Chloronaphthalene	50.0	44.0		ug/L		88	60 - 120
2-Chlorophenol	50.0	40.3		ug/L		81	23 - 134
2-Nitrophenol	50.0	47.3		ug/L		95	29 - 182
3,3'-Dichlorobenzidine	100	104		ug/L		104	1 - 262
4,6-Dinitro-2-methylphenol	100	118		ug/L		118	1 - 181
4-Bromophenyl phenyl ether	50.0	50.6		ug/L		101	53 - 127
4-Chloro-3-methylphenol	50.0	50.8		ug/L		102	22 - 147
4-Chlorophenyl phenyl ether	50.0	49.2		ug/L		98	25 - 158
4-Nitrophenol	100	53.7		ug/L		54	1 - 132
Acenaphthene	50.0	49.1		ug/L		98	47 - 145
Acenaphthylene	50.0	44.7		ug/L		89	33 - 145
Anthracene	50.0	52.9		ug/L		106	27 - 133
Benzidine	100	42.4	J	ug/L		42	1 - 120
Benzo[a]anthracene	50.0	54.7		ug/L		109	33 - 143
Benzo[a]pyrene	50.0	47.8		ug/L		96	17 - 163
Benzo[b]fluoranthene	50.0	53.3		ug/L		107	24 - 159
Benzo[g,h,i]perylene	50.0	53.3		ug/L		107	1 - 219
Benzo[k]fluoranthene	50.0	58.0		ug/L		116	11 - 162
Bis(2-chloroethoxy)methane	50.0	46.9		ug/L		94	33 - 184
Bis(2-chloroethyl)ether	50.0	44.5		ug/L		89	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-624677/2-A
Matrix: Water
Analysis Batch: 624827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	56.8		ug/L		114	8 - 158
Butyl benzyl phthalate	50.0	56.0		ug/L		112	1 - 152
Chrysene	50.0	54.3		ug/L		109	17 - 168
Di-n-butyl phthalate	50.0	56.1		ug/L		112	1 - 120
Di-n-octyl phthalate	50.0	55.8		ug/L		112	4 - 146
Dibenz(a,h)anthracene	50.0	54.0		ug/L		108	1 - 227
Diethyl phthalate	50.0	54.6		ug/L		109	1 - 120
Dimethyl phthalate	50.0	53.8		ug/L		108	1 - 120
Fluoranthene	50.0	55.2		ug/L		110	26 - 137
Fluorene	50.0	51.5		ug/L		103	59 - 121
Hexachlorobenzene	50.0	48.0		ug/L		96	1 - 152
Hexachlorocyclopentadiene	50.0	24.1		ug/L		48	5 - 120
Hexachloroethane	50.0	33.5		ug/L		67	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.7		ug/L		109	1 - 171
Isophorone	50.0	49.7		ug/L		99	21 - 196
N-Nitrosodi-n-propylamine	50.0	49.3		ug/L		99	1 - 230
N-Nitrosodiphenylamine	50.0	52.7		ug/L		105	54 - 125
Naphthalene	50.0	42.9		ug/L		86	21 - 133
Nitrobenzene	50.0	44.3		ug/L		89	35 - 180
Pentachlorophenol	100	94.1		ug/L		94	14 - 176
Phenanthrene	50.0	52.4		ug/L		105	54 - 120
Phenol	50.0	21.3		ug/L		43	5 - 120
Pyrene	50.0	55.1		ug/L		110	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*52 - 151*
2-Fluorobiphenyl	*88*		*44 - 120*
2-Fluorophenol	*46*		*17 - 120*
Nitrobenzene-d5	*84*		*15 - 314*
p-Terphenyl-d14	*105*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-624789/1-A
Matrix: Water
Analysis Batch: 625541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		05/09/22 09:36	05/10/22 17:32	1

Lab Sample ID: LCS 480-624789/2-A
Matrix: Water
Analysis Batch: 625541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.212		mg/L		106	85 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-197443-6 MS
Matrix: Water
Analysis Batch: 625541

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 624789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND		0.200	0.198		mg/L		99	70 - 130

Lab Sample ID: 480-197443-6 MSD
Matrix: Water
Analysis Batch: 625541

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 624789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	ND		0.200	0.204		mg/L		102	70 - 130	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-625256/1-A
Matrix: Water
Analysis Batch: 625450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		05/10/22 10:21	05/10/22 13:44	1

Lab Sample ID: LCS 480-625256/2-A
Matrix: Water
Analysis Batch: 625450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00683		mg/L		102	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-624861/1-A
Matrix: Water
Analysis Batch: 624922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		05/06/22 09:44	05/06/22 12:09	1

Lab Sample ID: LCS 480-624861/2-A
Matrix: Water
Analysis Batch: 624922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.393		mg/L		98	90 - 110

Lab Sample ID: LCS 480-624861/3-A
Matrix: Water
Analysis Batch: 624922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.238		mg/L		95	90 - 110

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-624819/1
Matrix: Water
Analysis Batch: 624819

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 624486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-5	TRIP BLANK	Total/NA	Water	624.1	
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	624.1	
MB 480-624486/8	Method Blank	Total/NA	Water	624.1	
LCS 480-624486/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 624677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	625	
MB 480-624677/1-A	Method Blank	Total/NA	Water	625	
LCS 480-624677/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 624827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	625.1	624677
MB 480-624677/1-A	Method Blank	Total/NA	Water	625.1	624677
LCS 480-624677/2-A	Lab Control Sample	Total/NA	Water	625.1	624677

Metals

Prep Batch: 624789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	200.7	
MB 480-624789/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-624789/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-197443-6 MS	001-1-4 LAB COMP	Total/NA	Water	200.7	
480-197443-6 MSD	001-1-4 LAB COMP	Total/NA	Water	200.7	

Prep Batch: 625256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	245.1	
MB 480-625256/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-625256/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 625450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	245.1	625256
MB 480-625256/1-A	Method Blank	Total/NA	Water	245.1	625256
LCS 480-625256/2-A	Lab Control Sample	Total/NA	Water	245.1	625256

Analysis Batch: 625541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	624789
MB 480-624789/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	624789
LCS 480-624789/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	624789
480-197443-6 MS	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	624789
480-197443-6 MSD	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	624789

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

General Chemistry

Analysis Batch: 624819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-624819/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 624861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	Distill/CN	
MB 480-624861/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-624861/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-624861/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 624922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197443-6	001-1-4 LAB COMP	Total/NA	Water	335.4	624861
MB 480-624861/1-A	Method Blank	Total/NA	Water	335.4	624861
LCS 480-624861/2-A	Lab Control Sample	Total/NA	Water	335.4	624861
LCS 480-624861/3-A	Lab Control Sample	Total/NA	Water	335.4	624861

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-197443-5
Date Collected: 05/02/22 00:00
Matrix: Water
Date Received: 05/02/22 14:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	624486	05/04/22 16:34	ATG	TAL BUF

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-197443-6
Date Collected: 05/02/22 13:35
Matrix: Water
Date Received: 05/02/22 14:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	624486	05/04/22 16:58	ATG	TAL BUF
Total/NA	Prep	625			624677	05/05/22 09:36	JMP	TAL BUF
Total/NA	Analysis	625.1		1	624827	05/06/22 15:52	JMM	TAL BUF
Total/NA	Prep	200.7			624789	05/09/22 09:36	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	625541	05/10/22 17:59	LMH	TAL BUF
Total/NA	Prep	245.1			625256	05/10/22 10:21	NVK	TAL BUF
Total/NA	Analysis	245.1		1	625450	05/10/22 13:53	NVK	TAL BUF
Total/NA	Prep	Distill/CN			624861	05/06/22 09:44	NLK	TAL BUF
Total/NA	Analysis	335.4		1	624922	05/06/22 12:37	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	624819	05/06/22 01:22	RDA	TAL BUF

Laboratory References:
TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-197443-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-197443-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197443-5	TRIP BLANK	Water	05/02/22 00:00	05/02/22 14:19
480-197443-6	001-1-4 LAB COMP	Water	05/02/22 13:35	05/02/22 14:19

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171457-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30082116			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	5/2/22	0735	G	Water			X	X	X	X	X			
001-2	↓	0935	↓	Water			X	X	X	X	X			
001-3		1135		↓			X	X	X	X	X			
001-4		1335					X	X	X	X	X			
Trip Blank	—	—	—									X		

480-197443 Chain of Custody

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: Dan Gutkowski	Date/Time: 5/2/22 / 1419	Company: Arcadis	Received by: [illegible]	Date/Time: 5/2/22 14	Company: TA
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.:

Cooler Temperature(s) °C and Other Remarks: S.2 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-197443-1

Login Number: 197443
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-198533-1
Client Project/Site: Iroquois Gas/Westwood Pharm Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
6/14/2022 12:21:40 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Job ID: 480-198533-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-198533-1

Comments
No additional comments.

Receipt
The samples were received on 6/1/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.2º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 6/2 as requested by the client: 001-1-4 LAB COMP (480-198533-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-628619 and analytical batch 480-628920 recovered outside control limits for the following analytes: Pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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
Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001-1-4 LAB COMP (480-198533-6).

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

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-628619.

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
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-198533-5

No Detections.

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.13	B	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.5	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-198533-5
Date Collected: 06/01/22 00:00
Matrix: Water
Date Received: 06/01/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/02/22 17:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/02/22 17:07	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/02/22 17:07	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/02/22 17:07	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/02/22 17:07	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/02/22 17:07	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/02/22 17:07	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/02/22 17:07	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/02/22 17:07	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/02/22 17:07	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/02/22 17:07	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/02/22 17:07	1
Acrolein	ND		100	17	ug/L			06/02/22 17:07	1
Acrylonitrile	ND		50	1.9	ug/L			06/02/22 17:07	1
Benzene	ND		5.0	0.60	ug/L			06/02/22 17:07	1
Bromoform	ND		5.0	0.47	ug/L			06/02/22 17:07	1
Bromomethane	ND		5.0	1.2	ug/L			06/02/22 17:07	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/02/22 17:07	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/02/22 17:07	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/02/22 17:07	1
Chloroethane	ND		5.0	0.87	ug/L			06/02/22 17:07	1
Chloroform	ND		5.0	0.54	ug/L			06/02/22 17:07	1
Chloromethane	ND		5.0	0.64	ug/L			06/02/22 17:07	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/02/22 17:07	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/02/22 17:07	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/02/22 17:07	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/02/22 17:07	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/02/22 17:07	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/02/22 17:07	1
Toluene	ND		5.0	0.45	ug/L			06/02/22 17:07	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/02/22 17:07	1
Trichloroethene	ND		5.0	0.60	ug/L			06/02/22 17:07	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/02/22 17:07	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/02/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*06/02/22 17:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*06/02/22 17:07*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*06/02/22 17:07*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/02/22 17:07*	*1*

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6
Date Collected: 06/01/22 13:00
Matrix: Water
Date Received: 06/01/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/02/22 17:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/02/22 17:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/02/22 17:32	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6
Date Collected: 06/01/22 13:00
Matrix: Water
Date Received: 06/01/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/02/22 17:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/02/22 17:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/02/22 17:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/02/22 17:32	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/02/22 17:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/02/22 17:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/02/22 17:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/02/22 17:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/02/22 17:32	1
Acrolein	ND		100	17	ug/L			06/02/22 17:32	1
Acrylonitrile	ND		50	1.9	ug/L			06/02/22 17:32	1
Benzene	ND		5.0	0.60	ug/L			06/02/22 17:32	1
Bromoform	ND		5.0	0.47	ug/L			06/02/22 17:32	1
Bromomethane	ND		5.0	1.2	ug/L			06/02/22 17:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/02/22 17:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/02/22 17:32	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/02/22 17:32	1
Chloroethane	ND		5.0	0.87	ug/L			06/02/22 17:32	1
Chloroform	ND		5.0	0.54	ug/L			06/02/22 17:32	1
Chloromethane	ND		5.0	0.64	ug/L			06/02/22 17:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/02/22 17:32	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/02/22 17:32	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/02/22 17:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/02/22 17:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/02/22 17:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/02/22 17:32	1
Toluene	ND		5.0	0.45	ug/L			06/02/22 17:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/02/22 17:32	1
Trichloroethene	ND		5.0	0.60	ug/L			06/02/22 17:32	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/02/22 17:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/02/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*06/02/22 17:32*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*06/02/22 17:32*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*06/02/22 17:32*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/02/22 17:32*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		06/03/22 08:50	06/06/22 17:08	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		06/03/22 08:50	06/06/22 17:08	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		06/03/22 08:50	06/06/22 17:08	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		06/03/22 08:50	06/06/22 17:08	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,2'-Oxybis(1-chloropropane)	ND		5.1	0.21	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,4,6-Trichlorophenol	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,4-Dichlorophenol	ND		5.1	0.19	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,4-Dimethylphenol	ND		5.1	0.35	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		06/03/22 08:50	06/06/22 17:08	1

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6
Date Collected: 06/01/22 13:00
Matrix: Water
Date Received: 06/01/22 14:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10	0.41	ug/L		06/03/22 08:50	06/06/22 17:08	1
2,6-Dinitrotoluene	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
2-Chloronaphthalene	ND		5.1	0.23	ug/L		06/03/22 08:50	06/06/22 17:08	1
2-Chlorophenol	ND		5.1	0.17	ug/L		06/03/22 08:50	06/06/22 17:08	1
2-Nitrophenol	ND		5.1	0.18	ug/L		06/03/22 08:50	06/06/22 17:08	1
3,3'-Dichlorobenzidine	ND		5.1	0.40	ug/L		06/03/22 08:50	06/06/22 17:08	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		06/03/22 08:50	06/06/22 17:08	1
4-Bromophenyl phenyl ether	ND		5.1	0.35	ug/L		06/03/22 08:50	06/06/22 17:08	1
4-Chloro-3-methylphenol	ND		5.1	0.28	ug/L		06/03/22 08:50	06/06/22 17:08	1
4-Chlorophenyl phenyl ether	ND		5.1	0.33	ug/L		06/03/22 08:50	06/06/22 17:08	1
4-Nitrophenol	ND		15	0.49	ug/L		06/03/22 08:50	06/06/22 17:08	1
Acenaphthene	ND		5.1	0.20	ug/L		06/03/22 08:50	06/06/22 17:08	1
Acenaphthylene	ND		5.1	0.22	ug/L		06/03/22 08:50	06/06/22 17:08	1
Anthracene	ND		5.1	0.35	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzidine	ND		81	14	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzo[a]anthracene	ND		5.1	0.28	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzo[a]pyrene	ND		5.1	0.33	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzo[b]fluoranthene	ND		5.1	0.30	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzo[g,h,i]perylene	ND		5.1	0.38	ug/L		06/03/22 08:50	06/06/22 17:08	1
Benzo[k]fluoranthene	ND		5.1	0.33	ug/L		06/03/22 08:50	06/06/22 17:08	1
Bis(2-chloroethoxy)methane	ND		5.1	0.19	ug/L		06/03/22 08:50	06/06/22 17:08	1
Bis(2-chloroethyl)ether	ND		5.1	0.23	ug/L		06/03/22 08:50	06/06/22 17:08	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		06/03/22 08:50	06/06/22 17:08	1
Butyl benzyl phthalate	ND		5.1	0.28	ug/L		06/03/22 08:50	06/06/22 17:08	1
Chrysene	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
Decane	ND		10	0.40	ug/L		06/03/22 08:50	06/06/22 17:08	1
Di-n-butyl phthalate	ND		5.1	0.40	ug/L		06/03/22 08:50	06/06/22 17:08	1
Di-n-octyl phthalate	ND		5.1	0.30	ug/L		06/03/22 08:50	06/06/22 17:08	1
Dibenz(a,h)anthracene	ND		5.1	0.38	ug/L		06/03/22 08:50	06/06/22 17:08	1
Diethyl phthalate	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
Dimethyl phthalate	ND		5.1	0.23	ug/L		06/03/22 08:50	06/06/22 17:08	1
Fluoranthene	ND		5.1	0.40	ug/L		06/03/22 08:50	06/06/22 17:08	1
Fluorene	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
Hexachlorobenzene	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
Hexachlorobutadiene	ND		5.1	0.25	ug/L		06/03/22 08:50	06/06/22 17:08	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		06/03/22 08:50	06/06/22 17:08	1
Hexachloroethane	ND		5.1	0.15	ug/L		06/03/22 08:50	06/06/22 17:08	1
Indeno[1,2,3-cd]pyrene	ND		5.1	0.38	ug/L		06/03/22 08:50	06/06/22 17:08	1
Isophorone	ND		5.1	0.19	ug/L		06/03/22 08:50	06/06/22 17:08	1
N-Nitrosodi-n-propylamine	ND		5.1	0.22	ug/L		06/03/22 08:50	06/06/22 17:08	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		06/03/22 08:50	06/06/22 17:08	1
N-Nitrosodiphenylamine	ND		5.1	0.21	ug/L		06/03/22 08:50	06/06/22 17:08	1
Naphthalene	ND		5.1	0.22	ug/L		06/03/22 08:50	06/06/22 17:08	1
Nitrobenzene	ND		5.1	0.20	ug/L		06/03/22 08:50	06/06/22 17:08	1
Pentachlorophenol	ND		10	0.80	ug/L		06/03/22 08:50	06/06/22 17:08	1
Phenanthrene	ND		5.1	0.30	ug/L		06/03/22 08:50	06/06/22 17:08	1
Phenol	ND		5.1	0.088	ug/L		06/03/22 08:50	06/06/22 17:08	1
Pyrene	ND	*+	5.1	0.35	ug/L		06/03/22 08:50	06/06/22 17:08	1
n-Octadecane	ND		10	0.30	ug/L		06/03/22 08:50	06/06/22 17:08	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6

Date Collected: 06/01/22 13:00
Matrix: Water
Date Received: 06/01/22 14:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*52 - 151*	*06/03/22 08:50*	*06/06/22 17:08*	*1*
2-Fluorobiphenyl	*94*		*44 - 120*	*06/03/22 08:50*	*06/06/22 17:08*	*1*
2-Fluorophenol	*46*		*17 - 120*	*06/03/22 08:50*	*06/06/22 17:08*	*1*
Nitrobenzene-d5	*80*		*15 - 314*	*06/03/22 08:50*	*06/06/22 17:08*	*1*
p-Terphenyl-d14	*106*		*22 - 125*	*06/03/22 08:50*	*06/06/22 17:08*	*1*
Phenol-d5	*32*		*8 - 424*	*06/03/22 08:50*	*06/06/22 17:08*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		06/06/22 09:48	06/06/22 22:19	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		06/03/22 10:56	06/03/22 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.13**	**B**	0.010	0.0050	mg/L		06/10/22 10:05	06/10/22 13:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**	**HF**	0.1	0.1	SU			06/07/22 18:44	1
Temperature	**21.5**	**HF**	0.001	0.001	Degrees C			06/07/22 18:44	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-198533-5	TRIP BLANK	94	96	99	99
480-198533-6	001-1-4 LAB COMP	96	99	100	102
LCS 480-628542/6	Lab Control Sample	96	94	99	95
MB 480-628542/8	Method Blank	96	99	101	102

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-198533-6	001-1-4 LAB COMP	76	94	46	80	106	32
LCS 480-628619/2-A	Lab Control Sample	105	93	48	77	103	36
LCSD 480-628619/3-A	Lab Control Sample Dup	102	98	48	83	112	37
MB 480-628619/1-A	Method Blank	73	100	50	82	109	33

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-628542/8
Matrix: Water
Analysis Batch: 628542

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/02/22 16:34	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/02/22 16:34	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/02/22 16:34	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/02/22 16:34	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/02/22 16:34	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/02/22 16:34	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/02/22 16:34	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/02/22 16:34	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/02/22 16:34	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/02/22 16:34	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/02/22 16:34	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/02/22 16:34	1
Acrolein	ND		100	17	ug/L			06/02/22 16:34	1
Acrylonitrile	ND		50	1.9	ug/L			06/02/22 16:34	1
Benzene	ND		5.0	0.60	ug/L			06/02/22 16:34	1
Bromoform	ND		5.0	0.47	ug/L			06/02/22 16:34	1
Bromomethane	ND		5.0	1.2	ug/L			06/02/22 16:34	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/02/22 16:34	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/02/22 16:34	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/02/22 16:34	1
Chloroethane	ND		5.0	0.87	ug/L			06/02/22 16:34	1
Chloroform	ND		5.0	0.54	ug/L			06/02/22 16:34	1
Chloromethane	ND		5.0	0.64	ug/L			06/02/22 16:34	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/02/22 16:34	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/02/22 16:34	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/02/22 16:34	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/02/22 16:34	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/02/22 16:34	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/02/22 16:34	1
Toluene	ND		5.0	0.45	ug/L			06/02/22 16:34	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/02/22 16:34	1
Trichloroethene	ND		5.0	0.60	ug/L			06/02/22 16:34	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/02/22 16:34	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/02/22 16:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*06/02/22 16:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*06/02/22 16:34*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*06/02/22 16:34*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/02/22 16:34*	*1*

Lab Sample ID: LCS 480-628542/6
Matrix: Water
Analysis Batch: 628542

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	17.1		ug/L		85	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		97	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-628542/6
Matrix: Water
Analysis Batch: 628542

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	52 - 150
1,1-Dichloroethane	20.0	18.2		ug/L		91	59 - 155
1,1-Dichloroethene	20.0	18.0		ug/L		90	1 - 234
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	18 - 190
1,2-Dichloroethane	20.0	18.0		ug/L		90	49 - 155
1,2-Dichloropropane	20.0	18.8		ug/L		94	1 - 210
1,3-Dichlorobenzene	20.0	18.5		ug/L		93	59 - 156
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	18 - 190
2-Chloroethyl vinyl ether	20.0	19.4	J	ug/L		97	1 - 305
Benzene	20.0	18.6		ug/L		93	37 - 151
Bromoform	20.0	18.8		ug/L		94	45 - 169
Bromomethane	20.0	15.7		ug/L		79	1 - 242
Carbon tetrachloride	20.0	17.4		ug/L		87	70 - 140
Chlorobenzene	20.0	18.6		ug/L		93	37 - 160
Dibromochloromethane	20.0	18.4		ug/L		92	53 - 149
Chloroethane	20.0	16.3		ug/L		82	14 - 230
Chloroform	20.0	17.8		ug/L		89	51 - 138
Chloromethane	20.0	15.3		ug/L		77	1 - 273
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	1 - 227
Bromodichloromethane	20.0	18.2		ug/L		91	35 - 155
Ethylbenzene	20.0	17.8		ug/L		89	37 - 162
Methylene Chloride	20.0	18.5		ug/L		93	1 - 221
Tetrachloroethene	20.0	18.4		ug/L		92	64 - 148
Toluene	20.0	18.5		ug/L		92	47 - 150
trans-1,3-Dichloropropene	20.0	18.7		ug/L		94	17 - 183
Trichloroethene	20.0	18.3		ug/L		92	71 - 157
Trichlorofluoromethane	20.0	15.4		ug/L		77	17 - 181
Vinyl chloride	20.0	15.2		ug/L		76	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*99*		*77 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-628619/1-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		06/03/22 08:50	06/06/22 15:05	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		06/03/22 08:50	06/06/22 15:05	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		06/03/22 08:50	06/06/22 15:05	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		06/03/22 08:50	06/06/22 15:05	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-628619/1-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		06/03/22 08:50	06/06/22 15:05	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		06/03/22 08:50	06/06/22 15:05	1
2-Chlorophenol	ND		5.0	0.17	ug/L		06/03/22 08:50	06/06/22 15:05	1
2-Nitrophenol	ND		5.0	0.18	ug/L		06/03/22 08:50	06/06/22 15:05	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/03/22 08:50	06/06/22 15:05	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		06/03/22 08:50	06/06/22 15:05	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		06/03/22 08:50	06/06/22 15:05	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		06/03/22 08:50	06/06/22 15:05	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		06/03/22 08:50	06/06/22 15:05	1
4-Nitrophenol	ND		15	0.49	ug/L		06/03/22 08:50	06/06/22 15:05	1
Acenaphthene	ND		5.0	0.20	ug/L		06/03/22 08:50	06/06/22 15:05	1
Acenaphthylene	ND		5.0	0.22	ug/L		06/03/22 08:50	06/06/22 15:05	1
Anthracene	ND		5.0	0.35	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzidine	ND		80	14	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		06/03/22 08:50	06/06/22 15:05	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		06/03/22 08:50	06/06/22 15:05	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		06/03/22 08:50	06/06/22 15:05	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		06/03/22 08:50	06/06/22 15:05	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		06/03/22 08:50	06/06/22 15:05	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		06/03/22 08:50	06/06/22 15:05	1
Chrysene	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
Decane	ND		10	0.40	ug/L		06/03/22 08:50	06/06/22 15:05	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		06/03/22 08:50	06/06/22 15:05	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		06/03/22 08:50	06/06/22 15:05	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		06/03/22 08:50	06/06/22 15:05	1
Diethyl phthalate	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		06/03/22 08:50	06/06/22 15:05	1
Fluoranthene	ND		5.0	0.40	ug/L		06/03/22 08:50	06/06/22 15:05	1
Fluorene	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		06/03/22 08:50	06/06/22 15:05	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		06/03/22 08:50	06/06/22 15:05	1
Hexachloroethane	ND		5.0	0.15	ug/L		06/03/22 08:50	06/06/22 15:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		06/03/22 08:50	06/06/22 15:05	1
Isophorone	ND		5.0	0.19	ug/L		06/03/22 08:50	06/06/22 15:05	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		06/03/22 08:50	06/06/22 15:05	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		06/03/22 08:50	06/06/22 15:05	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		06/03/22 08:50	06/06/22 15:05	1
Naphthalene	ND		5.0	0.22	ug/L		06/03/22 08:50	06/06/22 15:05	1
Nitrobenzene	ND		5.0	0.20	ug/L		06/03/22 08:50	06/06/22 15:05	1
Pentachlorophenol	ND		10	0.79	ug/L		06/03/22 08:50	06/06/22 15:05	1
Phenanthrene	ND		5.0	0.30	ug/L		06/03/22 08:50	06/06/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-628619/1-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		06/03/22 08:50	06/06/22 15:05	1
Pyrene	ND		5.0	0.35	ug/L		06/03/22 08:50	06/06/22 15:05	1
n-Octadecane	ND		10	0.30	ug/L		06/03/22 08:50	06/06/22 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*52 - 151*	*06/03/22 08:50*	*06/06/22 15:05*	*1*
2-Fluorobiphenyl	*100*		*44 - 120*	*06/03/22 08:50*	*06/06/22 15:05*	*1*
2-Fluorophenol	*50*		*17 - 120*	*06/03/22 08:50*	*06/06/22 15:05*	*1*
Nitrobenzene-d5	*82*		*15 - 314*	*06/03/22 08:50*	*06/06/22 15:05*	*1*
p-Terphenyl-d14	*109*		*22 - 125*	*06/03/22 08:50*	*06/06/22 15:05*	*1*
Phenol-d5	*33*		*8 - 424*	*06/03/22 08:50*	*06/06/22 15:05*	*1*

Lab Sample ID: LCS 480-628619/2-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	43.6		ug/L		87	44 - 142
1,2-Dichlorobenzene	50.0	39.3		ug/L		79	32 - 129
1,3-Dichlorobenzene	50.0	36.8		ug/L		74	1 - 172
1,4-Dichlorobenzene	50.0	40.0		ug/L		80	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	37.9		ug/L		76	36 - 166
2,4,6-Trichlorophenol	50.0	48.5		ug/L		97	37 - 144
2,4-Dichlorophenol	50.0	48.9		ug/L		98	39 - 135
2,4-Dimethylphenol	50.0	45.7		ug/L		91	32 - 120
2,4-Dinitrophenol	100	88.5		ug/L		89	1 - 191
2,4-Dinitrotoluene	50.0	51.3		ug/L		103	39 - 139
2,6-Dinitrotoluene	50.0	49.9		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	47.4		ug/L		95	60 - 120
2-Chlorophenol	50.0	44.1		ug/L		88	23 - 134
2-Nitrophenol	50.0	46.7		ug/L		93	29 - 182
3,3'-Dichlorobenzidine	100	103		ug/L		103	1 - 262
4,6-Dinitro-2-methylphenol	100	97.6		ug/L		98	1 - 181
4-Bromophenyl phenyl ether	50.0	50.6		ug/L		101	53 - 127
4-Chloro-3-methylphenol	50.0	44.2		ug/L		88	22 - 147
4-Chlorophenyl phenyl ether	50.0	49.6		ug/L		99	25 - 158
4-Nitrophenol	100	37.7		ug/L		38	1 - 132
Acenaphthene	50.0	51.0		ug/L		102	47 - 145
Acenaphthylene	50.0	47.6		ug/L		95	33 - 145
Anthracene	50.0	53.5		ug/L		107	27 - 133
Benzidine	100	112		ug/L		112	1 - 120
Benzo[a]anthracene	50.0	52.7		ug/L		105	33 - 143
Benzo[a]pyrene	50.0	49.9		ug/L		100	17 - 163
Benzo[b]fluoranthene	50.0	53.1		ug/L		106	24 - 159
Benzo[g,h,i]perylene	50.0	49.9		ug/L		100	1 - 219
Benzo[k]fluoranthene	50.0	55.3		ug/L		111	11 - 162
Bis(2-chloroethoxy)methane	50.0	44.6		ug/L		89	33 - 184
Bis(2-chloroethyl)ether	50.0	41.8		ug/L		84	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-628619/2-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	55.7		ug/L		111	8 - 158
Butyl benzyl phthalate	50.0	54.0		ug/L		108	1 - 152
Chrysene	50.0	52.7		ug/L		105	17 - 168
Di-n-butyl phthalate	50.0	53.6		ug/L		107	1 - 120
Di-n-octyl phthalate	50.0	57.0		ug/L		114	4 - 146
Dibenz(a,h)anthracene	50.0	54.0		ug/L		108	1 - 227
Diethyl phthalate	50.0	50.7		ug/L		101	1 - 120
Dimethyl phthalate	50.0	51.0		ug/L		102	1 - 120
Fluoranthene	50.0	55.2		ug/L		110	26 - 137
Fluorene	50.0	52.0		ug/L		104	59 - 121
Hexachlorobenzene	50.0	52.9		ug/L		106	1 - 152
Hexachlorocyclopentadiene	50.0	33.9		ug/L		68	5 - 120
Hexachloroethane	50.0	33.6		ug/L		67	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	52.9		ug/L		106	1 - 171
Isophorone	50.0	43.9		ug/L		88	21 - 196
N-Nitrosodi-n-propylamine	50.0	43.8		ug/L		88	1 - 230
N-Nitrosodiphenylamine	50.0	56.0		ug/L		112	54 - 125
Naphthalene	50.0	44.2		ug/L		88	21 - 133
Nitrobenzene	50.0	39.6		ug/L		79	35 - 180
Pentachlorophenol	100	132		ug/L		132	14 - 176
Phenanthrene	50.0	53.0		ug/L		106	54 - 120
Phenol	50.0	18.4		ug/L		37	5 - 120
Pyrene	50.0	57.5		ug/L		115	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol	*48*		*17 - 120*
Nitrobenzene-d5	*77*		*15 - 314*
p-Terphenyl-d14	*103*		*22 - 125*
Phenol-d5	*36*		*8 - 424*

Lab Sample ID: LCSD 480-628619/3-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628619

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	42.7		ug/L		85	44 - 142	2	34
1,2-Dichlorobenzene	50.0	39.3		ug/L		79	32 - 129	0	38
1,3-Dichlorobenzene	50.0	37.0		ug/L		74	1 - 172	1	37
1,4-Dichlorobenzene	50.0	37.8		ug/L		76	20 - 124	6	40
2,2'-Oxybis(1-chloropropane)	50.0	36.0		ug/L		72	36 - 166	5	36
2,4,6-Trichlorophenol	50.0	51.4		ug/L		103	37 - 144	6	20
2,4-Dichlorophenol	50.0	49.1		ug/L		98	39 - 135	0	23
2,4-Dimethylphenol	50.0	45.3		ug/L		91	32 - 120	1	18
2,4-Dinitrophenol	100	103		ug/L		103	1 - 191	15	29
2,4-Dinitrotoluene	50.0	56.5		ug/L		113	39 - 139	10	20
2,6-Dinitrotoluene	50.0	54.7		ug/L		109	50 - 158	9	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-628619/3-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628619

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	50.0		ug/L		100	60 - 120	5	30
2-Chlorophenol			50.0	43.9		ug/L		88	23 - 134	1	26
2-Nitrophenol			50.0	49.4		ug/L		99	29 - 182	6	28
3,3'-Dichlorobenzidine			100	111		ug/L		111	1 - 262	8	31
4,6-Dinitro-2-methylphenol			100	101		ug/L		101	1 - 181	4	30
4-Bromophenyl phenyl ether			50.0	50.5		ug/L		101	53 - 127	0	16
4-Chloro-3-methylphenol			50.0	45.8		ug/L		92	22 - 147	4	16
4-Chlorophenyl phenyl ether			50.0	53.7		ug/L		107	25 - 158	8	15
4-Nitrophenol			100	41.1		ug/L		41	1 - 132	8	24
Acenaphthene			50.0	51.9		ug/L		104	47 - 145	2	25
Acenaphthylene			50.0	50.0		ug/L		100	33 - 145	5	22
Anthracene			50.0	55.3		ug/L		111	27 - 133	3	15
Benzidine			100	102		ug/L		102	1 - 120	9	50
Benzo[a]anthracene			50.0	57.1		ug/L		114	33 - 143	8	15
Benzo[a]pyrene			50.0	50.3		ug/L		101	17 - 163	1	15
Benzo[b]fluoranthene			50.0	54.3		ug/L		109	24 - 159	2	17
Benzo[g,h,i]perylene			50.0	52.2		ug/L		104	1 - 219	4	19
Benzo[k]fluoranthene			50.0	56.4		ug/L		113	11 - 162	2	19
Bis(2-chloroethoxy)methane			50.0	43.7		ug/L		87	33 - 184	2	23
Bis(2-chloroethyl)ether			50.0	42.1		ug/L		84	12 - 158	1	33
Bis(2-ethylhexyl) phthalate			50.0	59.8		ug/L		120	8 - 158	7	15
Butyl benzyl phthalate			50.0	57.9		ug/L		116	1 - 152	7	15
Chrysene			50.0	57.7		ug/L		115	17 - 168	9	15
Di-n-butyl phthalate			50.0	58.0		ug/L		116	1 - 120	8	15
Di-n-octyl phthalate			50.0	61.6		ug/L		123	4 - 146	8	15
Dibenz(a,h)anthracene			50.0	56.3		ug/L		113	1 - 227	4	18
Diethyl phthalate			50.0	51.8		ug/L		104	1 - 120	2	15
Dimethyl phthalate			50.0	54.4		ug/L		109	1 - 120	7	15
Fluoranthene			50.0	57.7		ug/L		115	26 - 137	4	15
Fluorene			50.0	55.3		ug/L		111	59 - 121	6	18
Hexachlorobenzene			50.0	52.0		ug/L		104	1 - 152	2	15
Hexachlorocyclopentadiene			50.0	33.1		ug/L		66	5 - 120	3	50
Hexachloroethane			50.0	34.0		ug/L		68	40 - 120	1	43
Indeno[1,2,3-cd]pyrene			50.0	53.8		ug/L		108	1 - 171	2	17
Isophorone			50.0	43.6		ug/L		87	21 - 196	1	21
N-Nitrosodi-n-propylamine			50.0	43.4		ug/L		87	1 - 230	1	23
N-Nitrosodiphenylamine			50.0	56.1		ug/L		112	54 - 125	0	15
Naphthalene			50.0	44.1		ug/L		88	21 - 133	0	31
Nitrobenzene			50.0	40.4		ug/L		81	35 - 180	2	27
Pentachlorophenol			100	138		ug/L		138	14 - 176	4	21
Phenanthrene			50.0	55.1		ug/L		110	54 - 120	4	16
Phenol			50.0	20.4		ug/L		41	5 - 120	11	36
Pyrene			50.0	60.4	*+	ug/L		121	52 - 120	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol	*48*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-628619/3-A
Matrix: Water
Analysis Batch: 628920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 628619

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*83*		*15 - 314*
p-Terphenyl-d14	*112*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-628732/1-A
Matrix: Water
Analysis Batch: 629040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		06/06/22 09:48	06/06/22 21:34	1

Lab Sample ID: LCS 480-628732/2-A
Matrix: Water
Analysis Batch: 629040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.200		mg/L		100	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-628660/1-A
Matrix: Water
Analysis Batch: 628735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 628660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		06/03/22 10:56	06/03/22 14:13	1

Lab Sample ID: LCS 480-628660/2-A
Matrix: Water
Analysis Batch: 628735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 628660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00670		mg/L		100	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-629585/1-A
Matrix: Water
Analysis Batch: 629633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00532	J	0.010	0.0050	mg/L		06/10/22 10:05	06/10/22 12:46	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-629585/2-A
Matrix: Water
Analysis Batch: 629633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.371		mg/L		93	90 - 110

Lab Sample ID: LCS 480-629585/3-A
Matrix: Water
Analysis Batch: 629633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.229		mg/L		92	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-629292/1
Matrix: Water
Analysis Batch: 629292

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

GC/MS VOA

Analysis Batch: 628542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-5	TRIP BLANK	Total/NA	Water	624.1	
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	624.1	
MB 480-628542/8	Method Blank	Total/NA	Water	624.1	
LCS 480-628542/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 628619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	625	
MB 480-628619/1-A	Method Blank	Total/NA	Water	625	
LCS 480-628619/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-628619/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 628920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	625.1	628619
MB 480-628619/1-A	Method Blank	Total/NA	Water	625.1	628619
LCS 480-628619/2-A	Lab Control Sample	Total/NA	Water	625.1	628619
LCSD 480-628619/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	628619

Metals

Prep Batch: 628660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	245.1	
MB 480-628660/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-628660/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 628732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	200.7	
MB 480-628732/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-628732/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 628735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	245.1	628660
MB 480-628660/1-A	Method Blank	Total/NA	Water	245.1	628660
LCS 480-628660/2-A	Lab Control Sample	Total/NA	Water	245.1	628660

Analysis Batch: 629040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	628732
MB 480-628732/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	628732
LCS 480-628732/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	628732

General Chemistry

Analysis Batch: 629292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 629292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-629292/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 629585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	Distill/CN	
MB 480-629585/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-629585/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-629585/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 629633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-198533-6	001-1-4 LAB COMP	Total/NA	Water	335.4	629585
MB 480-629585/1-A	Method Blank	Total/NA	Water	335.4	629585
LCS 480-629585/2-A	Lab Control Sample	Total/NA	Water	335.4	629585
LCS 480-629585/3-A	Lab Control Sample	Total/NA	Water	335.4	629585

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-198533-5
Date Collected: 06/01/22 00:00
Matrix: Water
Date Received: 06/01/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	628542	06/02/22 17:07	ATG	TAL BUF

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-198533-6
Date Collected: 06/01/22 13:00
Matrix: Water
Date Received: 06/01/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	628542	06/02/22 17:32	ATG	TAL BUF
Total/NA	Prep	625			628619	06/03/22 08:50	JMP	TAL BUF
Total/NA	Analysis	625.1		1	628920	06/06/22 17:08	PJQ	TAL BUF
Total/NA	Prep	200.7			628732	06/06/22 09:48	NBS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	629040	06/06/22 22:19	LMH	TAL BUF
Total/NA	Prep	245.1			628660	06/03/22 10:56	NBS	TAL BUF
Total/NA	Analysis	245.1		1	628735	06/03/22 14:35	NVK	TAL BUF
Total/NA	Prep	Distill/CN			629585	06/10/22 10:05	EJL	TAL BUF
Total/NA	Analysis	335.4		1	629633	06/10/22 13:07	CLT	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	629292	06/07/22 18:44	RDA	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-198533-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-198533-5	TRIP BLANK	Water	06/01/22 00:00	06/01/22 14:00
480-198533-6	001-1-4 LAB COMP	Water	06/01/22 13:00	06/01/22 14:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171458-34075.1
Client Contact: Jason Gutkowski	Phone: 315 4363605	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30682116	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	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, Y - Trizma, 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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	6/1/22	0700	G	Water			X	X	X	X	X			Lab To
001-2		0900		Water			X	X	X	X	X			Composite
001-3		1100					X	X	X	X	X			Samples
001-4		1300					X	X	X	X	X			
Trip Blank	—	—	—								X	X		Short Hold Time

480-198533 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Samp (ained 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
Jason Gutkowski	6/1/22 / 1319	Arcadis	[illegible]	6/1/22 1400	TA
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.:	Cooler Temperature(s) °C and Other Remarks: 10.2 # ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-198533-1

Login Number: 198533
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	10.2 #1 ICE
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: September 30, 2022
Our Ref: 30125855
Subject: **Discharge Monitoring Report – Third Quarter 2022**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this third quarter 2022 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period July 1 through September 30, 2022. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 94,562 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 6/27/2022 to 9/28/2022). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the third quarter 2022.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the July, August, and September monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

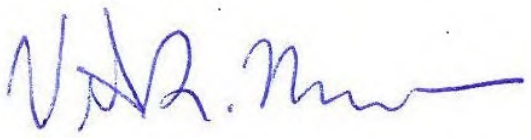
Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In July, August, and September 2022, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

Ms. Leslie Sedita
Buffalo Sewer Authority Treatment Plant
September 30, 2022

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

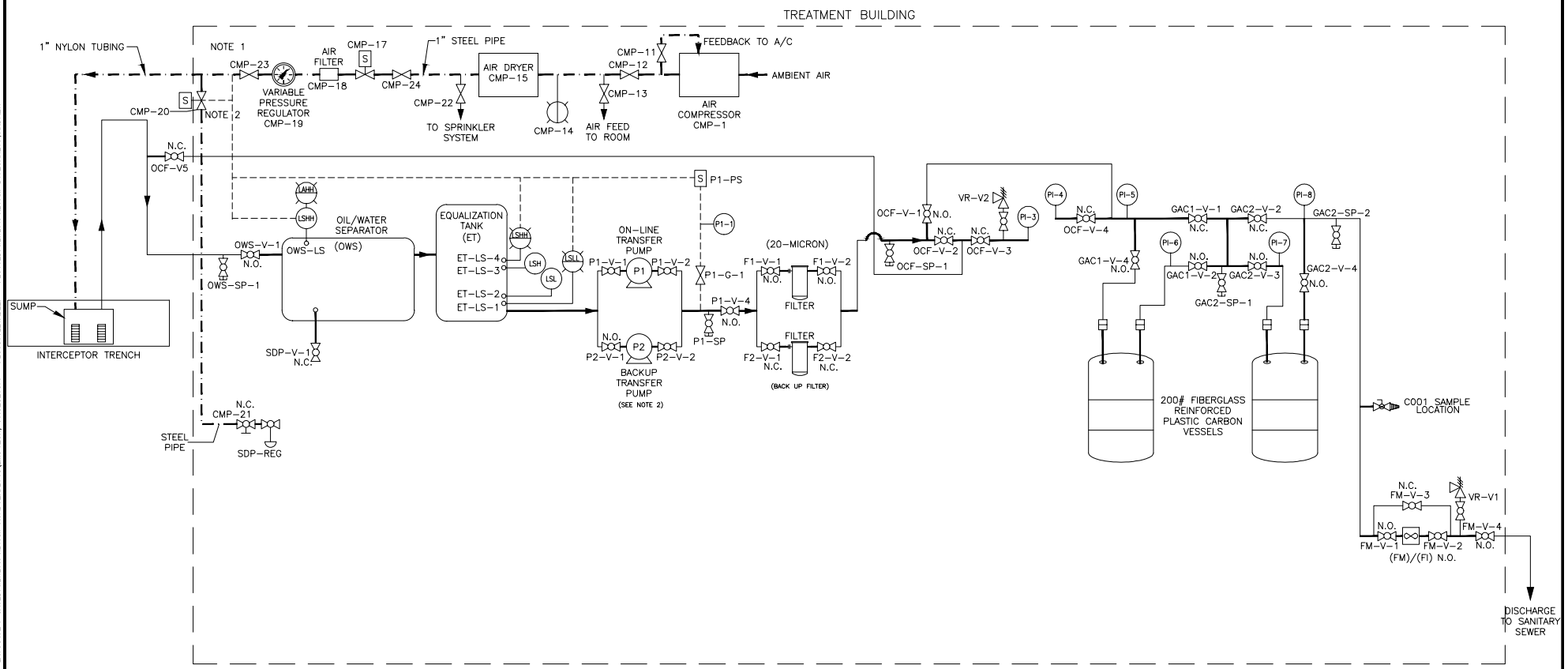
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Dan Darragh, Cohen & Grigsby, PC
Katie Hoelscher, NFG

Attachments:

- A Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name
Professional Engineer's No.
State | Date Signed | Project Mgr.
Designed by | Drawn by | Checked by

ARCADIS
ARCADIS OF NEW YORK, INC.
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001
Date
SEPTEMBER 2017
ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

CITY: SYRACUSE, NY DIVISION/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoanetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: — PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	7/5/22	→	→	→	JT6
Sample Time	0735	0935	1135	1335	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	73°F Cloudy	73°F Rain	70°F Rain	68°F Cloudy	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski — Sample Technician

7/5/22 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	8/1/22	→	→	→	JTG
Sample Time	0635	0835	1035	1235	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	68°F Sunny	72°F Sunny	75°F Sun/Clouds	79°F Sun/Clouds	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski — Sample Technician

8/1/22 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	9/7/22	→	→	→	JT6
Sample Time	0650	0850	1050	1250	JT6
Sample Observations	Clear	→	→	→	JT6
pH Measurement	N/A	→	→	→	JT6
Weather	63°F light Rain	64°F light Rain	66°F overcast	70°F overcast	JT6
Comments	None	→	→	→	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski — Sample Technician

9/7/22 — Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	6/27/2022	7/5/2022	7/11/2022	7/18/2022	7/25/2022	8/1/2022	8/8/2022
Totalizer	gal	NA	957,564	965,717	971,295	977,532	984,120	990,478	996,697
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	9.33E-04	NS	NS	NS	9.08E-04	NS
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	ND *1	NS
pH	SU	5.0-12.0	NS	7.7 HF	NS	NS	NS	7.6 HF	NS
Total Daily Flow	gal	14,400	-	1,019	930	891	941	908	888

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	8/17/2022	8/22/2022	8/30/2022	9/7/2022	9/14/2022	9/19/2022	9/28/2022
Totalizer	gal	NA	1,004,734	1,010,134	1,018,307	1,026,953	1,034,651	1,040,452	1,052,126
Total Mercury	lbs	0.00001**	NS	NS	NS	ND	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	9.90E-04	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	8.2 HF	NS	NS	NS
Total Daily Flow	gal	14,400	893	1,080	1,022	1,081	1,100	1,160	1,297

Notes:

HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
*1 - LCS/LCSD RPD exceeds control limits.
NA - Not Applicable
ND - Not Detected at the reporting limit
NS - Not Sampled
gal - Gallons
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-199521-1
Client Project/Site: Iroquois Gas/Westwood Pharm Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
7/15/2022 10:51:43 AM

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Method Summary 23
Sample Summary 24
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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Qualifiers

GC/MS 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.

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
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

Job ID: 480-199521-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-199521-1

Comments
No additional comments.

Receipt
The samples were received on 7/6/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.0° C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 7/6 as requested by the client: 001-1-4 LAB COMP (480-199521-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

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

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

General Chemistry
Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001-1-4 LAB COMP (480-199521-6).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 07/7/2022 as requested on the chain-of-custody: 001-1-4 LAB COMP (480-199521-6).

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
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-199521-5

No Detections.

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-199521-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.11		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	22.3	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-199521-5

Date Collected: 07/05/22 00:00

Matrix: Water

Date Received: 07/06/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/06/22 14:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/06/22 14:15	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/06/22 14:15	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/06/22 14:15	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/06/22 14:15	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/06/22 14:15	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/06/22 14:15	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/06/22 14:15	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/06/22 14:15	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/06/22 14:15	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/06/22 14:15	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/06/22 14:15	1
Acrolein	ND		100	17	ug/L			07/06/22 14:15	1
Acrylonitrile	ND		50	1.9	ug/L			07/06/22 14:15	1
Benzene	ND		5.0	0.60	ug/L			07/06/22 14:15	1
Bromoform	ND		5.0	0.47	ug/L			07/06/22 14:15	1
Bromomethane	ND		5.0	1.2	ug/L			07/06/22 14:15	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/06/22 14:15	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/06/22 14:15	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/06/22 14:15	1
Chloroethane	ND		5.0	0.87	ug/L			07/06/22 14:15	1
Chloroform	ND		5.0	0.54	ug/L			07/06/22 14:15	1
Chloromethane	ND		5.0	0.64	ug/L			07/06/22 14:15	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/06/22 14:15	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/06/22 14:15	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/06/22 14:15	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/06/22 14:15	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/06/22 14:15	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/06/22 14:15	1
Toluene	ND		5.0	0.45	ug/L			07/06/22 14:15	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/06/22 14:15	1
Trichloroethene	ND		5.0	0.60	ug/L			07/06/22 14:15	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/06/22 14:15	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/06/22 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*07/06/22 14:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*07/06/22 14:15*	*1*
Toluene-d8 (Surr)	*104*		*77 - 120*		*07/06/22 14:15*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*07/06/22 14:15*	*1*

Client Sample ID: 001-1-4 LAB COMP

Lab Sample ID: 480-199521-6

Date Collected: 07/06/22 00:00

Matrix: Water

Date Received: 07/06/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/06/22 14:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/06/22 14:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/06/22 14:39	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-199521-6
Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/06/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/06/22 14:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/06/22 14:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/06/22 14:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/06/22 14:39	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/06/22 14:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/06/22 14:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/06/22 14:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/06/22 14:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/06/22 14:39	1
Acrolein	ND		100	17	ug/L			07/06/22 14:39	1
Acrylonitrile	ND		50	1.9	ug/L			07/06/22 14:39	1
Benzene	ND		5.0	0.60	ug/L			07/06/22 14:39	1
Bromoform	ND		5.0	0.47	ug/L			07/06/22 14:39	1
Bromomethane	ND		5.0	1.2	ug/L			07/06/22 14:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/06/22 14:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/06/22 14:39	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/06/22 14:39	1
Chloroethane	ND		5.0	0.87	ug/L			07/06/22 14:39	1
Chloroform	ND		5.0	0.54	ug/L			07/06/22 14:39	1
Chloromethane	ND		5.0	0.64	ug/L			07/06/22 14:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/06/22 14:39	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/06/22 14:39	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/06/22 14:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/06/22 14:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/06/22 14:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/06/22 14:39	1
Toluene	ND		5.0	0.45	ug/L			07/06/22 14:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/06/22 14:39	1
Trichloroethene	ND		5.0	0.60	ug/L			07/06/22 14:39	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/06/22 14:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/06/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*07/06/22 14:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*07/06/22 14:39*	*1*
Toluene-d8 (Surr)	*104*		*77 - 120*		*07/06/22 14:39*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*07/06/22 14:39*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		07/07/22 08:47	07/08/22 16:00	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		07/07/22 08:47	07/08/22 16:00	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		07/07/22 08:47	07/08/22 16:00	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		07/07/22 08:47	07/08/22 16:00	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		07/07/22 08:47	07/08/22 16:00	1

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-199521-6
Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/06/22 14:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		07/07/22 08:47	07/08/22 16:00	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		07/07/22 08:47	07/08/22 16:00	1
2-Chlorophenol	ND		4.8	0.16	ug/L		07/07/22 08:47	07/08/22 16:00	1
2-Nitrophenol	ND		4.8	0.17	ug/L		07/07/22 08:47	07/08/22 16:00	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		07/07/22 08:47	07/08/22 16:00	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		07/07/22 08:47	07/08/22 16:00	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		07/07/22 08:47	07/08/22 16:00	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		07/07/22 08:47	07/08/22 16:00	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		07/07/22 08:47	07/08/22 16:00	1
4-Nitrophenol	ND		14	0.46	ug/L		07/07/22 08:47	07/08/22 16:00	1
Acenaphthene	ND		4.8	0.19	ug/L		07/07/22 08:47	07/08/22 16:00	1
Acenaphthylene	ND		4.8	0.21	ug/L		07/07/22 08:47	07/08/22 16:00	1
Anthracene	ND		4.8	0.33	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzidine	ND		76	13	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		07/07/22 08:47	07/08/22 16:00	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		07/07/22 08:47	07/08/22 16:00	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		07/07/22 08:47	07/08/22 16:00	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		07/07/22 08:47	07/08/22 16:00	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		07/07/22 08:47	07/08/22 16:00	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		07/07/22 08:47	07/08/22 16:00	1
Chrysene	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
Decane	ND		9.5	0.38	ug/L		07/07/22 08:47	07/08/22 16:00	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		07/07/22 08:47	07/08/22 16:00	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		07/07/22 08:47	07/08/22 16:00	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		07/07/22 08:47	07/08/22 16:00	1
Diethyl phthalate	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		07/07/22 08:47	07/08/22 16:00	1
Fluoranthene	ND		4.8	0.38	ug/L		07/07/22 08:47	07/08/22 16:00	1
Fluorene	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		07/07/22 08:47	07/08/22 16:00	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		07/07/22 08:47	07/08/22 16:00	1
Hexachloroethane	ND		4.8	0.14	ug/L		07/07/22 08:47	07/08/22 16:00	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		07/07/22 08:47	07/08/22 16:00	1
Isophorone	ND		4.8	0.18	ug/L		07/07/22 08:47	07/08/22 16:00	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		07/07/22 08:47	07/08/22 16:00	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		07/07/22 08:47	07/08/22 16:00	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		07/07/22 08:47	07/08/22 16:00	1
Naphthalene	ND		4.8	0.20	ug/L		07/07/22 08:47	07/08/22 16:00	1
Nitrobenzene	ND		4.8	0.19	ug/L		07/07/22 08:47	07/08/22 16:00	1
Pentachlorophenol	ND		9.5	0.75	ug/L		07/07/22 08:47	07/08/22 16:00	1
Phenanthrene	ND		4.8	0.29	ug/L		07/07/22 08:47	07/08/22 16:00	1
Phenol	ND		4.8	0.083	ug/L		07/07/22 08:47	07/08/22 16:00	1
Pyrene	ND		4.8	0.33	ug/L		07/07/22 08:47	07/08/22 16:00	1
n-Octadecane	ND		9.5	0.29	ug/L		07/07/22 08:47	07/08/22 16:00	1

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-199521-6
Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/06/22 14:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*52 - 151*	*07/07/22 08:47*	*07/08/22 16:00*	*1*
2-Fluorobiphenyl	*87*		*44 - 120*	*07/07/22 08:47*	*07/08/22 16:00*	*1*
2-Fluorophenol	*39*		*17 - 120*	*07/07/22 08:47*	*07/08/22 16:00*	*1*
Nitrobenzene-d5	*82*		*15 - 314*	*07/07/22 08:47*	*07/08/22 16:00*	*1*
p-Terphenyl-d14	*104*		*22 - 125*	*07/07/22 08:47*	*07/08/22 16:00*	*1*
Phenol-d5	*28*		*8 - 424*	*07/07/22 08:47*	*07/08/22 16:00*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		07/08/22 09:14	07/09/22 00:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		07/07/22 10:45	07/07/22 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.11**		0.010	0.0050	mg/L		07/07/22 09:34	07/07/22 10:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.1	0.1	SU			07/07/22 18:56	1
Temperature	**22.3**	**HF**	0.001	0.001	Degrees C			07/07/22 18:56	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-199521-5	TRIP BLANK	96	97	104	97
480-199521-6	001-1-4 LAB COMP	97	98	104	99
LCS 480-632644/6	Lab Control Sample	98	94	103	93
MB 480-632644/8	Method Blank	97	99	103	96

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-199521-6	001-1-4 LAB COMP	83	87	39	82	104	28
LCS 480-632768/2-A	Lab Control Sample	102	89	51	86	105	41
LCSD 480-632768/3-A	Lab Control Sample Dup	95	89	46	86	103	37
MB 480-632768/1-A	Method Blank	78	87	49	86	100	38

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-632644/8
Matrix: Water
Analysis Batch: 632644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/06/22 13:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/06/22 13:12	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/06/22 13:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/06/22 13:12	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/06/22 13:12	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/06/22 13:12	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/06/22 13:12	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/06/22 13:12	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/06/22 13:12	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/06/22 13:12	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/06/22 13:12	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/06/22 13:12	1
Acrolein	ND		100	17	ug/L			07/06/22 13:12	1
Acrylonitrile	ND		50	1.9	ug/L			07/06/22 13:12	1
Benzene	ND		5.0	0.60	ug/L			07/06/22 13:12	1
Bromoform	ND		5.0	0.47	ug/L			07/06/22 13:12	1
Bromomethane	ND		5.0	1.2	ug/L			07/06/22 13:12	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/06/22 13:12	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/06/22 13:12	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/06/22 13:12	1
Chloroethane	ND		5.0	0.87	ug/L			07/06/22 13:12	1
Chloroform	ND		5.0	0.54	ug/L			07/06/22 13:12	1
Chloromethane	ND		5.0	0.64	ug/L			07/06/22 13:12	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/06/22 13:12	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/06/22 13:12	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/06/22 13:12	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/06/22 13:12	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/06/22 13:12	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/06/22 13:12	1
Toluene	ND		5.0	0.45	ug/L			07/06/22 13:12	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/06/22 13:12	1
Trichloroethene	ND		5.0	0.60	ug/L			07/06/22 13:12	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/06/22 13:12	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/06/22 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*07/06/22 13:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*07/06/22 13:12*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*07/06/22 13:12*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*07/06/22 13:12*	*1*

Lab Sample ID: LCS 480-632644/6
Matrix: Water
Analysis Batch: 632644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.3		ug/L		92	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-632644/6
Matrix: Water
Analysis Batch: 632644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	52 - 150
1,1-Dichloroethane	20.0	19.9		ug/L		100	59 - 155
1,1-Dichloroethene	20.0	18.5		ug/L		93	1 - 234
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
1,2-Dichloroethane	20.0	18.9		ug/L		94	49 - 155
1,2-Dichloropropane	20.0	20.8		ug/L		104	1 - 210
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	59 - 156
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	18 - 190
2-Chloroethyl vinyl ether	20.0	21.6	J	ug/L		108	1 - 305
Benzene	20.0	19.6		ug/L		98	37 - 151
Bromoform	20.0	19.6		ug/L		98	45 - 169
Bromomethane	20.0	16.3		ug/L		81	1 - 242
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 140
Chlorobenzene	20.0	20.0		ug/L		100	37 - 160
Dibromochloromethane	20.0	20.1		ug/L		101	53 - 149
Chloroethane	20.0	17.1		ug/L		85	14 - 230
Chloroform	20.0	19.1		ug/L		95	51 - 138
Chloromethane	20.0	16.4		ug/L		82	1 - 273
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	1 - 227
Bromodichloromethane	20.0	19.7		ug/L		99	35 - 155
Ethylbenzene	20.0	19.8		ug/L		99	37 - 162
Methylene Chloride	20.0	19.4		ug/L		97	1 - 221
Tetrachloroethene	20.0	19.1		ug/L		95	64 - 148
Toluene	20.0	20.4		ug/L		102	47 - 150
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	17 - 183
Trichloroethene	20.0	19.3		ug/L		96	71 - 157
Trichlorofluoromethane	20.0	16.6		ug/L		83	17 - 181
Vinyl chloride	20.0	15.8		ug/L		79	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*103*		*77 - 120*
Dibromofluoromethane (Surr)	*93*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-632768/1-A
Matrix: Water
Analysis Batch: 632899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		07/07/22 08:47	07/08/22 13:57	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		07/07/22 08:47	07/08/22 13:57	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		07/07/22 08:47	07/08/22 13:57	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		07/07/22 08:47	07/08/22 13:57	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-632768/1-A
Matrix: Water
Analysis Batch: 632899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		07/07/22 08:47	07/08/22 13:57	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		07/07/22 08:47	07/08/22 13:57	1
2-Chlorophenol	ND		5.0	0.17	ug/L		07/07/22 08:47	07/08/22 13:57	1
2-Nitrophenol	ND		5.0	0.18	ug/L		07/07/22 08:47	07/08/22 13:57	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/07/22 08:47	07/08/22 13:57	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		07/07/22 08:47	07/08/22 13:57	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		07/07/22 08:47	07/08/22 13:57	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		07/07/22 08:47	07/08/22 13:57	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		07/07/22 08:47	07/08/22 13:57	1
4-Nitrophenol	ND		15	0.49	ug/L		07/07/22 08:47	07/08/22 13:57	1
Acenaphthene	ND		5.0	0.20	ug/L		07/07/22 08:47	07/08/22 13:57	1
Acenaphthylene	ND		5.0	0.22	ug/L		07/07/22 08:47	07/08/22 13:57	1
Anthracene	ND		5.0	0.35	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzidine	ND		80	14	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		07/07/22 08:47	07/08/22 13:57	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		07/07/22 08:47	07/08/22 13:57	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		07/07/22 08:47	07/08/22 13:57	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		07/07/22 08:47	07/08/22 13:57	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		07/07/22 08:47	07/08/22 13:57	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		07/07/22 08:47	07/08/22 13:57	1
Chrysene	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
Decane	ND		10	0.40	ug/L		07/07/22 08:47	07/08/22 13:57	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		07/07/22 08:47	07/08/22 13:57	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		07/07/22 08:47	07/08/22 13:57	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		07/07/22 08:47	07/08/22 13:57	1
Diethyl phthalate	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		07/07/22 08:47	07/08/22 13:57	1
Fluoranthene	ND		5.0	0.40	ug/L		07/07/22 08:47	07/08/22 13:57	1
Fluorene	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		07/07/22 08:47	07/08/22 13:57	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		07/07/22 08:47	07/08/22 13:57	1
Hexachloroethane	ND		5.0	0.15	ug/L		07/07/22 08:47	07/08/22 13:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		07/07/22 08:47	07/08/22 13:57	1
Isophorone	ND		5.0	0.19	ug/L		07/07/22 08:47	07/08/22 13:57	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		07/07/22 08:47	07/08/22 13:57	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		07/07/22 08:47	07/08/22 13:57	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		07/07/22 08:47	07/08/22 13:57	1
Naphthalene	ND		5.0	0.22	ug/L		07/07/22 08:47	07/08/22 13:57	1
Nitrobenzene	ND		5.0	0.20	ug/L		07/07/22 08:47	07/08/22 13:57	1
Pentachlorophenol	ND		10	0.79	ug/L		07/07/22 08:47	07/08/22 13:57	1
Phenanthrene	ND		5.0	0.30	ug/L		07/07/22 08:47	07/08/22 13:57	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-632768/1-A
Matrix: Water
Analysis Batch: 632899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		07/07/22 08:47	07/08/22 13:57	1
Pyrene	ND		5.0	0.35	ug/L		07/07/22 08:47	07/08/22 13:57	1
n-Octadecane	ND		10	0.30	ug/L		07/07/22 08:47	07/08/22 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*52 - 151*	*07/07/22 08:47*	*07/08/22 13:57*	*1*
2-Fluorobiphenyl	*87*		*44 - 120*	*07/07/22 08:47*	*07/08/22 13:57*	*1*
2-Fluorophenol	*49*		*17 - 120*	*07/07/22 08:47*	*07/08/22 13:57*	*1*
Nitrobenzene-d5	*86*		*15 - 314*	*07/07/22 08:47*	*07/08/22 13:57*	*1*
p-Terphenyl-d14	*100*		*22 - 125*	*07/07/22 08:47*	*07/08/22 13:57*	*1*
Phenol-d5	*38*		*8 - 424*	*07/07/22 08:47*	*07/08/22 13:57*	*1*

Lab Sample ID: LCS 480-632768/2-A
Matrix: Water
Analysis Batch: 632899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	41.7		ug/L		83	44 - 142
1,2-Dichlorobenzene	50.0	38.6		ug/L		77	32 - 129
1,3-Dichlorobenzene	50.0	35.8		ug/L		72	1 - 172
1,4-Dichlorobenzene	50.0	37.1		ug/L		74	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	44.2		ug/L		88	36 - 166
2,4,6-Trichlorophenol	50.0	50.1		ug/L		100	37 - 144
2,4-Dichlorophenol	50.0	46.4		ug/L		93	39 - 135
2,4-Dimethylphenol	50.0	47.7		ug/L		95	32 - 120
2,4-Dinitrophenol	100	116		ug/L		116	1 - 191
2,4-Dinitrotoluene	50.0	53.1		ug/L		106	39 - 139
2,6-Dinitrotoluene	50.0	51.5		ug/L		103	50 - 158
2-Chloronaphthalene	50.0	46.4		ug/L		93	60 - 120
2-Chlorophenol	50.0	41.6		ug/L		83	23 - 134
2-Nitrophenol	50.0	44.4		ug/L		89	29 - 182
3,3'-Dichlorobenzidine	100	107		ug/L		107	1 - 262
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	1 - 181
4-Bromophenyl phenyl ether	50.0	49.5		ug/L		99	53 - 127
4-Chloro-3-methylphenol	50.0	50.3		ug/L		101	22 - 147
4-Chlorophenyl phenyl ether	50.0	50.5		ug/L		101	25 - 158
4-Nitrophenol	100	52.7		ug/L		53	1 - 132
Acenaphthene	50.0	47.4		ug/L		95	47 - 145
Acenaphthylene	50.0	48.4		ug/L		97	33 - 145
Anthracene	50.0	52.0		ug/L		104	27 - 133
Benzidine	100	80.9		ug/L		81	1 - 120
Benzo[a]anthracene	50.0	52.3		ug/L		105	33 - 143
Benzo[a]pyrene	50.0	54.8		ug/L		110	17 - 163
Benzo[b]fluoranthene	50.0	53.9		ug/L		108	24 - 159
Benzo[g,h,i]perylene	50.0	52.9		ug/L		106	1 - 219
Benzo[k]fluoranthene	50.0	53.5		ug/L		107	11 - 162
Bis(2-chloroethoxy)methane	50.0	46.2		ug/L		92	33 - 184
Bis(2-chloroethyl)ether	50.0	44.5		ug/L		89	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-632768/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632899
Prep Batch: 632768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	53.7		ug/L		107	8 - 158
Butyl benzyl phthalate	50.0	51.7		ug/L		103	1 - 152
Chrysene	50.0	52.7		ug/L		105	17 - 168
Di-n-butyl phthalate	50.0	54.8		ug/L		110	1 - 120
Di-n-octyl phthalate	50.0	53.9		ug/L		108	4 - 146
Dibenz(a,h)anthracene	50.0	53.5		ug/L		107	1 - 227
Diethyl phthalate	50.0	52.8		ug/L		106	1 - 120
Dimethyl phthalate	50.0	51.7		ug/L		103	1 - 120
Fluoranthene	50.0	54.4		ug/L		109	26 - 137
Fluorene	50.0	50.8		ug/L		102	59 - 121
Hexachlorobenzene	50.0	49.1		ug/L		98	1 - 152
Hexachlorocyclopentadiene	50.0	40.9		ug/L		82	5 - 120
Hexachloroethane	50.0	36.2		ug/L		72	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.3		ug/L		107	1 - 171
Isophorone	50.0	48.8		ug/L		98	21 - 196
N-Nitrosodi-n-propylamine	50.0	47.6		ug/L		95	1 - 230
N-Nitrosodiphenylamine	50.0	49.6		ug/L		99	54 - 125
Naphthalene	50.0	42.5		ug/L		85	21 - 133
Nitrobenzene	50.0	43.5		ug/L		87	35 - 180
Pentachlorophenol	100	98.3		ug/L		98	14 - 176
Phenanthrene	50.0	51.0		ug/L		102	54 - 120
Phenol	50.0	23.7		ug/L		47	5 - 120
Pyrene	50.0	54.4		ug/L		109	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*52 - 151*
2-Fluorobiphenyl	*89*		*44 - 120*
2-Fluorophenol	*51*		*17 - 120*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*105*		*22 - 125*
Phenol-d5	*41*		*8 - 424*

Lab Sample ID: LCSD 480-632768/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632899
Prep Batch: 632768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	42.9		ug/L		86	44 - 142	3	34
1,2-Dichlorobenzene	50.0	40.2		ug/L		80	32 - 129	4	38
1,3-Dichlorobenzene	50.0	38.9		ug/L		78	1 - 172	8	37
1,4-Dichlorobenzene	50.0	39.5		ug/L		79	20 - 124	6	40
2,2'-Oxybis(1-chloropropane)	50.0	44.8		ug/L		90	36 - 166	1	36
2,4,6-Trichlorophenol	50.0	47.3		ug/L		95	37 - 144	6	20
2,4-Dichlorophenol	50.0	45.9		ug/L		92	39 - 135	1	23
2,4-Dimethylphenol	50.0	45.1		ug/L		90	32 - 120	6	18
2,4-Dinitrophenol	100	117		ug/L		117	1 - 191	1	29
2,4-Dinitrotoluene	50.0	53.9		ug/L		108	39 - 139	2	20
2,6-Dinitrotoluene	50.0	51.4		ug/L		103	50 - 158	0	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-632768/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632899
Prep Batch: 632768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	47.0		ug/L		94	60 - 120	1	30
2-Chlorophenol			50.0	40.3		ug/L		81	23 - 134	3	26
2-Nitrophenol			50.0	45.4		ug/L		91	29 - 182	2	28
3,3'-Dichlorobenzidine			100	105		ug/L		105	1 - 262	2	31
4,6-Dinitro-2-methylphenol			100	111		ug/L		111	1 - 181	0	30
4-Bromophenyl phenyl ether			50.0	47.7		ug/L		95	53 - 127	4	16
4-Chloro-3-methylphenol			50.0	48.3		ug/L		97	22 - 147	4	16
4-Chlorophenyl phenyl ether			50.0	50.4		ug/L		101	25 - 158	0	15
4-Nitrophenol			100	45.9		ug/L		46	1 - 132	14	24
Acenaphthene			50.0	47.4		ug/L		95	47 - 145	0	25
Acenaphthylene			50.0	48.1		ug/L		96	33 - 145	1	22
Anthracene			50.0	50.9		ug/L		102	27 - 133	2	15
Benzidine			100	84.3		ug/L		84	1 - 120	4	50
Benzo[a]anthracene			50.0	52.2		ug/L		104	33 - 143	0	15
Benzo[a]pyrene			50.0	52.4		ug/L		105	17 - 163	5	15
Benzo[b]fluoranthene			50.0	52.1		ug/L		104	24 - 159	3	17
Benzo[g,h,i]perylene			50.0	51.6		ug/L		103	1 - 219	2	19
Benzo[k]fluoranthene			50.0	54.3		ug/L		109	11 - 162	1	19
Bis(2-chloroethoxy)methane			50.0	45.7		ug/L		91	33 - 184	1	23
Bis(2-chloroethyl)ether			50.0	44.9		ug/L		90	12 - 158	1	33
Bis(2-ethylhexyl) phthalate			50.0	52.5		ug/L		105	8 - 158	2	15
Butyl benzyl phthalate			50.0	50.6		ug/L		101	1 - 152	2	15
Chrysene			50.0	52.0		ug/L		104	17 - 168	1	15
Di-n-butyl phthalate			50.0	53.9		ug/L		108	1 - 120	2	15
Di-n-octyl phthalate			50.0	52.8		ug/L		106	4 - 146	2	15
Dibenz(a,h)anthracene			50.0	53.6		ug/L		107	1 - 227	0	18
Diethyl phthalate			50.0	51.9		ug/L		104	1 - 120	2	15
Dimethyl phthalate			50.0	51.2		ug/L		102	1 - 120	1	15
Fluoranthene			50.0	51.4		ug/L		103	26 - 137	6	15
Fluorene			50.0	49.8		ug/L		100	59 - 121	2	18
Hexachlorobenzene			50.0	47.4		ug/L		95	1 - 152	4	15
Hexachlorocyclopentadiene			50.0	40.8		ug/L		82	5 - 120	0	50
Hexachloroethane			50.0	38.9		ug/L		78	40 - 120	7	43
Indeno[1,2,3-cd]pyrene			50.0	52.2		ug/L		104	1 - 171	2	17
Isophorone			50.0	49.5		ug/L		99	21 - 196	1	21
N-Nitrosodi-n-propylamine			50.0	48.5		ug/L		97	1 - 230	2	23
N-Nitrosodiphenylamine			50.0	48.8		ug/L		98	54 - 125	2	15
Naphthalene			50.0	44.3		ug/L		89	21 - 133	4	31
Nitrobenzene			50.0	44.9		ug/L		90	35 - 180	3	27
Pentachlorophenol			100	93.9		ug/L		94	14 - 176	5	21
Phenanthrene			50.0	49.2		ug/L		98	54 - 120	4	16
Phenol			50.0	22.0		ug/L		44	5 - 120	7	36
Pyrene			50.0	52.2		ug/L		104	52 - 120	4	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*52 - 151*
2-Fluorobiphenyl	*89*		*44 - 120*
2-Fluorophenol	*46*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-632768/3-A
Matrix: Water
Analysis Batch: 632899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 632768

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*86*		*15 - 314*
p-Terphenyl-d14	*103*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-632847/1-A
Matrix: Water
Analysis Batch: 633055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		07/08/22 09:14	07/09/22 00:37	1

Lab Sample ID: LCS 480-632847/2-A
Matrix: Water
Analysis Batch: 633055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.202		mg/L		101	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-632791/1-A
Matrix: Water
Analysis Batch: 632837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		07/07/22 10:45	07/07/22 14:07	1

Lab Sample ID: LCS 480-632791/2-A
Matrix: Water
Analysis Batch: 632837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00673		mg/L		101	85 - 115

Lab Sample ID: 480-199521-6 MS
Matrix: Water
Analysis Batch: 632837

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 632791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00667	0.00673		mg/L		101	70 - 130

Lab Sample ID: 480-199521-6 MSD
Matrix: Water
Analysis Batch: 632837

Client Sample ID: 001-1-4 LAB COMP
Prep Type: Total/NA
Prep Batch: 632791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00675		mg/L		101	70 - 130	0	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-632787/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632807
Prep Batch: 632787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		07/07/22 09:34	07/07/22 10:24	1

Lab Sample ID: LCS 480-632787/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632807
Prep Batch: 632787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.360		mg/L		90	90 - 110

Lab Sample ID: LCS 480-632787/3-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632807
Prep Batch: 632787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.239		mg/L		96	90 - 110

Lab Sample ID: 480-199521-6 DU
Client Sample ID: 001-1-4 LAB COMP
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 632807
Prep Batch: 632787

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.11		0.112		mg/L		3	15

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-633010/1
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 633010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		101	99 - 101

GC/MS VOA

Analysis Batch: 632644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-5	TRIP BLANK	Total/NA	Water	624.1	
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	624.1	
MB 480-632644/8	Method Blank	Total/NA	Water	624.1	
LCS 480-632644/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 632768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	625	
MB 480-632768/1-A	Method Blank	Total/NA	Water	625	
LCS 480-632768/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-632768/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 632899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	625.1	632768
MB 480-632768/1-A	Method Blank	Total/NA	Water	625.1	632768
LCS 480-632768/2-A	Lab Control Sample	Total/NA	Water	625.1	632768
LCSD 480-632768/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	632768

Metals

Prep Batch: 632791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	245.1	
MB 480-632791/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-632791/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-199521-6 MS	001-1-4 LAB COMP	Total/NA	Water	245.1	
480-199521-6 MSD	001-1-4 LAB COMP	Total/NA	Water	245.1	

Analysis Batch: 632837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	245.1	632791
MB 480-632791/1-A	Method Blank	Total/NA	Water	245.1	632791
LCS 480-632791/2-A	Lab Control Sample	Total/NA	Water	245.1	632791
480-199521-6 MS	001-1-4 LAB COMP	Total/NA	Water	245.1	632791
480-199521-6 MSD	001-1-4 LAB COMP	Total/NA	Water	245.1	632791

Prep Batch: 632847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	200.7	
MB 480-632847/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-632847/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 633055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	200.7 Rev 4.4	632847
MB 480-632847/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	632847
LCS 480-632847/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	632847

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

General Chemistry

Prep Batch: 632787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	Distill/CN	
MB 480-632787/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-632787/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-632787/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-199521-6 DU	001-1-4 LAB COMP	Total/NA	Water	Distill/CN	

Analysis Batch: 632807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	335.4	632787
MB 480-632787/1-A	Method Blank	Total/NA	Water	335.4	632787
LCS 480-632787/2-A	Lab Control Sample	Total/NA	Water	335.4	632787
LCS 480-632787/3-A	Lab Control Sample	Total/NA	Water	335.4	632787
480-199521-6 DU	001-1-4 LAB COMP	Total/NA	Water	335.4	632787

Analysis Batch: 633010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-199521-6	001-1-4 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-633010/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-199521-5
Date Collected: 07/05/22 00:00
Matrix: Water
Date Received: 07/06/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	632644	07/06/22 14:15	ATG	TAL BUF

Client Sample ID: 001-1-4 LAB COMP
Lab Sample ID: 480-199521-6
Date Collected: 07/06/22 00:00
Matrix: Water
Date Received: 07/06/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	632644	07/06/22 14:39	ATG	TAL BUF
Total/NA	Prep	625			632768	07/07/22 08:47	CMC	TAL BUF
Total/NA	Analysis	625.1		1	632899	07/08/22 16:00	JMM	TAL BUF
Total/NA	Prep	200.7			632847	07/08/22 09:14	VAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	633055	07/09/22 00:56	LMH	TAL BUF
Total/NA	Prep	245.1			632791	07/07/22 10:45	VAK	TAL BUF
Total/NA	Analysis	245.1		1	632837	07/07/22 14:09	NVK	TAL BUF
Total/NA	Prep	Distill/CN			632787	07/07/22 09:34	HJH	TAL BUF
Total/NA	Analysis	335.4		1	632807	07/07/22 10:30	EJL	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	633010	07/07/22 18:56	DSC	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
625	Liquid-Liquid Extraction	40CFR136A	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-199521-1
Project/Site: Iroquois Gas/Westwood Pharm Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-199521-5	TRIP BLANK	Water	07/05/22 00:00	07/06/22 14:00
480-199521-6	001-1-4 LAB COMP	Water	07/06/22 00:00	07/06/22 14:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171459-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: Steve.Hartmann@et eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30125855	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	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, Y - Trizma, 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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	7/8/22	0735	G	Water			X	X	X	X	X			Lab To
001-2		0935		Water			X	X	X	X	X			Composite
001-3		1135					X	X	X	X	X			Samples
001-4		1335					X	X	X	X	X			
Trip Blank	—	—	—									X		
														Short Hold Time

480-199521 Chain of Custody

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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Jason Gutkowski	7/6/22 / 1355	Arcadis	[signature]	7/6/22 1400	TA
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.:	Cooler Temperature(s) °C and Other Remarks:
		13.0 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-199521-1

Login Number: 199521

List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	13.0 #1
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-200266-1
Client Project/Site: Iroquois Gas/Westwood Pharm.Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
8/9/2022 9:45:49 AM

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Job ID: 480-200266-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-200266-1

Comments
No additional comments.

Receipt
The samples were received on 8/1/2022 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.2º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 8/2/2022 as requested by the client: 001 LAB COMP (480-200266-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-635927 and analytical batch 480-636217 recovered outside control limits for multiple analytes.

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
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-200266-6).

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

Organic Prep
Method 625: The following sample was composited by the laboratory on 08-2-22 as requested on the chain-of-custody: 001 LAB COMP (480-200266-6).

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
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-200266-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-200266-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.12	B	0.010	0.0050	mg/L	1		335.4	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	17.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-200266-5

Date Collected: 08/01/22 00:00
Matrix: Water
Date Received: 08/01/22 13:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/02/22 15:44	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/02/22 15:44	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/02/22 15:44	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/02/22 15:44	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/02/22 15:44	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/02/22 15:44	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/02/22 15:44	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/02/22 15:44	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/02/22 15:44	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/02/22 15:44	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/02/22 15:44	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/02/22 15:44	1
Acrolein	ND		100	17	ug/L			08/02/22 15:44	1
Acrylonitrile	ND		50	1.9	ug/L			08/02/22 15:44	1
Benzene	ND		5.0	0.60	ug/L			08/02/22 15:44	1
Bromoform	ND		5.0	0.47	ug/L			08/02/22 15:44	1
Bromomethane	ND		5.0	1.2	ug/L			08/02/22 15:44	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/02/22 15:44	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/02/22 15:44	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/02/22 15:44	1
Chloroethane	ND		5.0	0.87	ug/L			08/02/22 15:44	1
Chloroform	ND		5.0	0.54	ug/L			08/02/22 15:44	1
Chloromethane	ND		5.0	0.64	ug/L			08/02/22 15:44	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/02/22 15:44	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/02/22 15:44	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/02/22 15:44	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/02/22 15:44	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/02/22 15:44	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/02/22 15:44	1
Toluene	ND		5.0	0.45	ug/L			08/02/22 15:44	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/02/22 15:44	1
Trichloroethene	ND		5.0	0.60	ug/L			08/02/22 15:44	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/02/22 15:44	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/02/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*08/02/22 15:44*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 123*		*08/02/22 15:44*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/02/22 15:44*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*08/02/22 15:44*	*1*

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-200266-6

Date Collected: 08/01/22 10:35
Matrix: Water
Date Received: 08/01/22 13:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/02/22 15:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/02/22 15:20	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/02/22 15:20	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-200266-6
Date Collected: 08/01/22 10:35
Matrix: Water
Date Received: 08/01/22 13:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/02/22 15:20	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/02/22 15:20	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/02/22 15:20	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/02/22 15:20	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/02/22 15:20	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/02/22 15:20	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/02/22 15:20	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/02/22 15:20	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/02/22 15:20	1
Acrolein	ND		100	17	ug/L			08/02/22 15:20	1
Acrylonitrile	ND		50	1.9	ug/L			08/02/22 15:20	1
Benzene	ND		5.0	0.60	ug/L			08/02/22 15:20	1
Bromoform	ND		5.0	0.47	ug/L			08/02/22 15:20	1
Bromomethane	ND		5.0	1.2	ug/L			08/02/22 15:20	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/02/22 15:20	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/02/22 15:20	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/02/22 15:20	1
Chloroethane	ND		5.0	0.87	ug/L			08/02/22 15:20	1
Chloroform	ND		5.0	0.54	ug/L			08/02/22 15:20	1
Chloromethane	ND		5.0	0.64	ug/L			08/02/22 15:20	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/02/22 15:20	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/02/22 15:20	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/02/22 15:20	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/02/22 15:20	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/02/22 15:20	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/02/22 15:20	1
Toluene	ND		5.0	0.45	ug/L			08/02/22 15:20	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/02/22 15:20	1
Trichloroethene	ND		5.0	0.60	ug/L			08/02/22 15:20	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/02/22 15:20	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/02/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 130*		*08/02/22 15:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*08/02/22 15:20*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/02/22 15:20*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*08/02/22 15:20*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		08/02/22 16:16	08/04/22 19:06	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		08/02/22 16:16	08/04/22 19:06	1
1,2-Diphenylhydrazine	ND	*1	10	0.20	ug/L		08/02/22 16:16	08/04/22 19:06	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		08/02/22 16:16	08/04/22 19:06	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,4,6-Trichlorophenol	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,4-Dichlorophenol	ND	*1	5.0	0.19	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,4-Dimethylphenol	ND	*1	5.0	0.35	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		08/02/22 16:16	08/04/22 19:06	1

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-200266-6
Date Collected: 08/01/22 10:35
Matrix: Water
Date Received: 08/01/22 13:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	*1	10	0.40	ug/L		08/02/22 16:16	08/04/22 19:06	1
2,6-Dinitrotoluene	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		08/02/22 16:16	08/04/22 19:06	1
2-Chlorophenol	ND	*1	5.0	0.17	ug/L		08/02/22 16:16	08/04/22 19:06	1
2-Nitrophenol	ND	*1	5.0	0.18	ug/L		08/02/22 16:16	08/04/22 19:06	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/02/22 16:16	08/04/22 19:06	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		08/02/22 16:16	08/04/22 19:06	1
4-Bromophenyl phenyl ether	ND	*1	5.0	0.35	ug/L		08/02/22 16:16	08/04/22 19:06	1
4-Chloro-3-methylphenol	ND	*1	5.0	0.28	ug/L		08/02/22 16:16	08/04/22 19:06	1
4-Chlorophenyl phenyl ether	ND	*1	5.0	0.33	ug/L		08/02/22 16:16	08/04/22 19:06	1
4-Nitrophenol	ND	*1	15	0.49	ug/L		08/02/22 16:16	08/04/22 19:06	1
Acenaphthene	ND	*1	5.0	0.20	ug/L		08/02/22 16:16	08/04/22 19:06	1
Acenaphthylene	ND	*1	5.0	0.22	ug/L		08/02/22 16:16	08/04/22 19:06	1
Anthracene	ND	*1	5.0	0.35	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzidine	ND		80	14	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzo[a]anthracene	ND	*1	5.0	0.28	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzo[a]pyrene	ND	*1	5.0	0.33	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzo[b]fluoranthene	ND	*1	5.0	0.30	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzo[g,h,i]perylene	ND	*1	5.0	0.38	ug/L		08/02/22 16:16	08/04/22 19:06	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		08/02/22 16:16	08/04/22 19:06	1
Bis(2-chloroethoxy)methane	ND	*1	5.0	0.19	ug/L		08/02/22 16:16	08/04/22 19:06	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		08/02/22 16:16	08/04/22 19:06	1
Bis(2-ethylhexyl) phthalate	ND	*1	10	0.30	ug/L		08/02/22 16:16	08/04/22 19:06	1
Butyl benzyl phthalate	ND	*1	5.0	0.28	ug/L		08/02/22 16:16	08/04/22 19:06	1
Chrysene	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
Decane	ND	*1	10	0.40	ug/L		08/02/22 16:16	08/04/22 19:06	1
Di-n-butyl phthalate	ND	*1	5.0	0.40	ug/L		08/02/22 16:16	08/04/22 19:06	1
Di-n-octyl phthalate	ND	*1	5.0	0.30	ug/L		08/02/22 16:16	08/04/22 19:06	1
Dibenz(a,h)anthracene	ND	*1	5.0	0.38	ug/L		08/02/22 16:16	08/04/22 19:06	1
Diethyl phthalate	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
Dimethyl phthalate	ND	*1	5.0	0.23	ug/L		08/02/22 16:16	08/04/22 19:06	1
Fluoranthene	ND	*1	5.0	0.40	ug/L		08/02/22 16:16	08/04/22 19:06	1
Fluorene	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
Hexachlorobenzene	ND	*1	5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 19:06	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		08/02/22 16:16	08/04/22 19:06	1
Hexachloroethane	ND		5.0	0.15	ug/L		08/02/22 16:16	08/04/22 19:06	1
Indeno[1,2,3-cd]pyrene	ND	*1	5.0	0.38	ug/L		08/02/22 16:16	08/04/22 19:06	1
Isophorone	ND	*1	5.0	0.19	ug/L		08/02/22 16:16	08/04/22 19:06	1
N-Nitrosodi-n-propylamine	ND	*1	5.0	0.22	ug/L		08/02/22 16:16	08/04/22 19:06	1
N-Nitrosodimethylamine	ND	*1	10	0.14	ug/L		08/02/22 16:16	08/04/22 19:06	1
N-Nitrosodiphenylamine	ND	*1	5.0	0.21	ug/L		08/02/22 16:16	08/04/22 19:06	1
Naphthalene	ND		5.0	0.22	ug/L		08/02/22 16:16	08/04/22 19:06	1
Nitrobenzene	ND		5.0	0.20	ug/L		08/02/22 16:16	08/04/22 19:06	1
Pentachlorophenol	ND		10	0.79	ug/L		08/02/22 16:16	08/04/22 19:06	1
Phenanthrene	ND	*1	5.0	0.30	ug/L		08/02/22 16:16	08/04/22 19:06	1
Phenol	ND		5.0	0.088	ug/L		08/02/22 16:16	08/04/22 19:06	1
Pyrene	ND	*1	5.0	0.35	ug/L		08/02/22 16:16	08/04/22 19:06	1
n-Octadecane	ND	*1	10	0.30	ug/L		08/02/22 16:16	08/04/22 19:06	1

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-200266-6
Date Collected: 08/01/22 10:35
Matrix: Water
Date Received: 08/01/22 13:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*52 - 151*	*08/02/22 16:16*	*08/04/22 19:06*	*1*
2-Fluorobiphenyl	*89*		*44 - 120*	*08/02/22 16:16*	*08/04/22 19:06*	*1*
2-Fluorophenol	*43*		*17 - 120*	*08/02/22 16:16*	*08/04/22 19:06*	*1*
Nitrobenzene-d5	*78*		*15 - 314*	*08/02/22 16:16*	*08/04/22 19:06*	*1*
p-Terphenyl-d14	*96*		*22 - 125*	*08/02/22 16:16*	*08/04/22 19:06*	*1*
Phenol-d5	*31*		*8 - 424*	*08/02/22 16:16*	*08/04/22 19:06*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		08/04/22 09:08	08/04/22 20:27	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/03/22 11:05	08/03/22 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.12**	**B**	0.010	0.0050	mg/L		08/03/22 12:07	08/04/22 11:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**	**HF**	0.1	0.1	SU			08/05/22 10:54	1
Temperature	**17.8**	**HF**	0.001	0.001	Degrees C			08/05/22 10:54	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-200266-5	TRIP BLANK	94	93	100	95
480-200266-6	001 LAB COMP	92	94	100	96
LCS 480-635808/6	Lab Control Sample	98	91	102	96
MB 480-635808/9	Method Blank	89	94	100	92

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-200266-6	001 LAB COMP	95	89	43	78	96	31
LCS 480-635927/2-A	Lab Control Sample	109	89	50	79	99	35
LCSD 480-635927/3-A	Lab Control Sample Dup	90	68	35	56	78	29
MB 480-635927/1-A	Method Blank	84	63	32	54	86	23

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-635808/9
Matrix: Water
Analysis Batch: 635808

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/02/22 13:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/02/22 13:31	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/02/22 13:31	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/02/22 13:31	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/02/22 13:31	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/02/22 13:31	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/02/22 13:31	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/02/22 13:31	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/02/22 13:31	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/02/22 13:31	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/02/22 13:31	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/02/22 13:31	1
Acrolein	ND		100	17	ug/L			08/02/22 13:31	1
Acrylonitrile	ND		50	1.9	ug/L			08/02/22 13:31	1
Benzene	ND		5.0	0.60	ug/L			08/02/22 13:31	1
Bromoform	ND		5.0	0.47	ug/L			08/02/22 13:31	1
Bromomethane	ND		5.0	1.2	ug/L			08/02/22 13:31	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/02/22 13:31	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/02/22 13:31	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/02/22 13:31	1
Chloroethane	ND		5.0	0.87	ug/L			08/02/22 13:31	1
Chloroform	ND		5.0	0.54	ug/L			08/02/22 13:31	1
Chloromethane	ND		5.0	0.64	ug/L			08/02/22 13:31	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/02/22 13:31	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/02/22 13:31	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/02/22 13:31	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/02/22 13:31	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/02/22 13:31	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/02/22 13:31	1
Toluene	ND		5.0	0.45	ug/L			08/02/22 13:31	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/02/22 13:31	1
Trichloroethene	ND		5.0	0.60	ug/L			08/02/22 13:31	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/02/22 13:31	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/02/22 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*68 - 130*		*08/02/22 13:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*08/02/22 13:31*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*08/02/22 13:31*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*08/02/22 13:31*	*1*

Lab Sample ID: LCS 480-635808/6
Matrix: Water
Analysis Batch: 635808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-635808/6
Matrix: Water
Analysis Batch: 635808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	52 - 150
1,1-Dichloroethane	20.0	20.3		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	19.8		ug/L		99	1 - 234
1,2-Dichlorobenzene	20.0	19.5		ug/L		97	18 - 190
1,2-Dichloroethane	20.0	18.4		ug/L		92	49 - 155
1,2-Dichloropropane	20.0	21.2		ug/L		106	1 - 210
1,3-Dichlorobenzene	20.0	19.5		ug/L		97	59 - 156
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	18 - 190
2-Chloroethyl vinyl ether	20.0	22.3	J	ug/L		112	1 - 305
Benzene	20.0	20.4		ug/L		102	37 - 151
Bromoform	20.0	19.3		ug/L		97	45 - 169
Bromomethane	20.0	21.7		ug/L		109	1 - 242
Carbon tetrachloride	20.0	19.6		ug/L		98	70 - 140
Chlorobenzene	20.0	19.7		ug/L		98	37 - 160
Dibromochloromethane	20.0	19.8		ug/L		99	53 - 149
Chloroethane	20.0	22.2		ug/L		111	14 - 230
Chloroform	20.0	19.3		ug/L		97	51 - 138
Chloromethane	20.0	19.9		ug/L		100	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Bromodichloromethane	20.0	19.7		ug/L		99	35 - 155
Ethylbenzene	20.0	19.2		ug/L		96	37 - 162
Methylene Chloride	20.0	20.4		ug/L		102	1 - 221
Tetrachloroethene	20.0	19.4		ug/L		97	64 - 148
Toluene	20.0	20.5		ug/L		102	47 - 150
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	17 - 183
Trichloroethene	20.0	20.0		ug/L		100	71 - 157
Trichlorofluoromethane	20.0	22.6		ug/L		113	17 - 181
Vinyl chloride	20.0	21.8		ug/L		109	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*91*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*
Dibromofluoromethane (Surr)	*96*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-635927/1-A
Matrix: Water
Analysis Batch: 636217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		08/02/22 16:16	08/04/22 17:54	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		08/02/22 16:16	08/04/22 17:54	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		08/02/22 16:16	08/04/22 17:54	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		08/02/22 16:16	08/04/22 17:54	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-635927/1-A
Matrix: Water
Analysis Batch: 636217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		08/02/22 16:16	08/04/22 17:54	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		08/02/22 16:16	08/04/22 17:54	1
2-Chlorophenol	ND		5.0	0.17	ug/L		08/02/22 16:16	08/04/22 17:54	1
2-Nitrophenol	ND		5.0	0.18	ug/L		08/02/22 16:16	08/04/22 17:54	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/02/22 16:16	08/04/22 17:54	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		08/02/22 16:16	08/04/22 17:54	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		08/02/22 16:16	08/04/22 17:54	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		08/02/22 16:16	08/04/22 17:54	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		08/02/22 16:16	08/04/22 17:54	1
4-Nitrophenol	ND		15	0.49	ug/L		08/02/22 16:16	08/04/22 17:54	1
Acenaphthene	ND		5.0	0.20	ug/L		08/02/22 16:16	08/04/22 17:54	1
Acenaphthylene	ND		5.0	0.22	ug/L		08/02/22 16:16	08/04/22 17:54	1
Anthracene	ND		5.0	0.35	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzidine	ND		80	14	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		08/02/22 16:16	08/04/22 17:54	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		08/02/22 16:16	08/04/22 17:54	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		08/02/22 16:16	08/04/22 17:54	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		08/02/22 16:16	08/04/22 17:54	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		08/02/22 16:16	08/04/22 17:54	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		08/02/22 16:16	08/04/22 17:54	1
Chrysene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
Decane	ND		10	0.40	ug/L		08/02/22 16:16	08/04/22 17:54	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		08/02/22 16:16	08/04/22 17:54	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		08/02/22 16:16	08/04/22 17:54	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		08/02/22 16:16	08/04/22 17:54	1
Diethyl phthalate	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		08/02/22 16:16	08/04/22 17:54	1
Fluoranthene	ND		5.0	0.40	ug/L		08/02/22 16:16	08/04/22 17:54	1
Fluorene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		08/02/22 16:16	08/04/22 17:54	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		08/02/22 16:16	08/04/22 17:54	1
Hexachloroethane	ND		5.0	0.15	ug/L		08/02/22 16:16	08/04/22 17:54	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		08/02/22 16:16	08/04/22 17:54	1
Isophorone	ND		5.0	0.19	ug/L		08/02/22 16:16	08/04/22 17:54	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		08/02/22 16:16	08/04/22 17:54	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		08/02/22 16:16	08/04/22 17:54	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		08/02/22 16:16	08/04/22 17:54	1
Naphthalene	ND		5.0	0.22	ug/L		08/02/22 16:16	08/04/22 17:54	1
Nitrobenzene	ND		5.0	0.20	ug/L		08/02/22 16:16	08/04/22 17:54	1
Pentachlorophenol	ND		10	0.79	ug/L		08/02/22 16:16	08/04/22 17:54	1
Phenanthrene	ND		5.0	0.30	ug/L		08/02/22 16:16	08/04/22 17:54	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-635927/1-A
Matrix: Water
Analysis Batch: 636217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		08/02/22 16:16	08/04/22 17:54	1
Pyrene	ND		5.0	0.35	ug/L		08/02/22 16:16	08/04/22 17:54	1
n-Octadecane	ND		10	0.30	ug/L		08/02/22 16:16	08/04/22 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*52 - 151*	*08/02/22 16:16*	*08/04/22 17:54*	*1*
2-Fluorobiphenyl	*63*		*44 - 120*	*08/02/22 16:16*	*08/04/22 17:54*	*1*
2-Fluorophenol	*32*		*17 - 120*	*08/02/22 16:16*	*08/04/22 17:54*	*1*
Nitrobenzene-d5	*54*		*15 - 314*	*08/02/22 16:16*	*08/04/22 17:54*	*1*
p-Terphenyl-d14	*86*		*22 - 125*	*08/02/22 16:16*	*08/04/22 17:54*	*1*
Phenol-d5	*23*		*8 - 424*	*08/02/22 16:16*	*08/04/22 17:54*	*1*

Lab Sample ID: LCS 480-635927/2-A
Matrix: Water
Analysis Batch: 636217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	43.6		ug/L		87	44 - 142
1,2-Dichlorobenzene	50.0	41.4		ug/L		83	32 - 129
1,3-Dichlorobenzene	50.0	38.7		ug/L		77	1 - 172
1,4-Dichlorobenzene	50.0	39.7		ug/L		79	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	39.2		ug/L		78	36 - 166
2,4,6-Trichlorophenol	50.0	48.5		ug/L		97	37 - 144
2,4-Dichlorophenol	50.0	48.7		ug/L		97	39 - 135
2,4-Dimethylphenol	50.0	43.3		ug/L		87	32 - 120
2,4-Dinitrophenol	100	87.1		ug/L		87	1 - 191
2,4-Dinitrotoluene	50.0	49.2		ug/L		98	39 - 139
2,6-Dinitrotoluene	50.0	50.3		ug/L		101	50 - 158
2-Chloronaphthalene	50.0	47.1		ug/L		94	60 - 120
2-Chlorophenol	50.0	44.1		ug/L		88	23 - 134
2-Nitrophenol	50.0	46.7		ug/L		93	29 - 182
3,3'-Dichlorobenzidine	100	89.8		ug/L		90	1 - 262
4,6-Dinitro-2-methylphenol	100	94.8		ug/L		95	1 - 181
4-Bromophenyl phenyl ether	50.0	55.6		ug/L		111	53 - 127
4-Chloro-3-methylphenol	50.0	46.1		ug/L		92	22 - 147
4-Chlorophenyl phenyl ether	50.0	48.9		ug/L		98	25 - 158
4-Nitrophenol	100	55.6		ug/L		56	1 - 132
Acenaphthene	50.0	48.0		ug/L		96	47 - 145
Acenaphthylene	50.0	47.5		ug/L		95	33 - 145
Anthracene	50.0	52.0		ug/L		104	27 - 133
Benzidine	100	93.1		ug/L		93	1 - 120
Benzo[a]anthracene	50.0	51.6		ug/L		103	33 - 143
Benzo[a]pyrene	50.0	52.8		ug/L		106	17 - 163
Benzo[b]fluoranthene	50.0	52.4		ug/L		105	24 - 159
Benzo[g,h,i]perylene	50.0	60.1		ug/L		120	1 - 219
Benzo[k]fluoranthene	50.0	49.1		ug/L		98	11 - 162
Bis(2-chloroethoxy)methane	50.0	40.8		ug/L		82	33 - 184
Bis(2-chloroethyl)ether	50.0	41.0		ug/L		82	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-635927/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 636217
Prep Batch: 635927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	49.2		ug/L		98	8 - 158
Butyl benzyl phthalate	50.0	50.2		ug/L		100	1 - 152
Chrysene	50.0	51.9		ug/L		104	17 - 168
Di-n-butyl phthalate	50.0	54.5		ug/L		109	1 - 120
Di-n-octyl phthalate	50.0	50.2		ug/L		100	4 - 146
Dibenz(a,h)anthracene	50.0	60.5		ug/L		121	1 - 227
Diethyl phthalate	50.0	50.7		ug/L		101	1 - 120
Dimethyl phthalate	50.0	49.8		ug/L		100	1 - 120
Fluoranthene	50.0	55.6		ug/L		111	26 - 137
Fluorene	50.0	50.0		ug/L		100	59 - 121
Hexachlorobenzene	50.0	54.5		ug/L		109	1 - 152
Hexachlorocyclopentadiene	50.0	32.3		ug/L		65	5 - 120
Hexachloroethane	50.0	38.1		ug/L		76	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	61.6		ug/L		123	1 - 171
Isophorone	50.0	44.2		ug/L		88	21 - 196
N-Nitrosodi-n-propylamine	50.0	42.8		ug/L		86	1 - 230
N-Nitrosodiphenylamine	50.0	53.3		ug/L		107	54 - 125
Naphthalene	50.0	42.6		ug/L		85	21 - 133
Nitrobenzene	50.0	38.9		ug/L		78	35 - 180
Pentachlorophenol	100	120		ug/L		120	14 - 176
Phenanthrene	50.0	50.9		ug/L		102	54 - 120
Phenol	50.0	18.5		ug/L		37	5 - 120
Pyrene	50.0	50.5		ug/L		101	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*52 - 151*
2-Fluorobiphenyl	*89*		*44 - 120*
2-Fluorophenol	*50*		*17 - 120*
Nitrobenzene-d5	*79*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*35*		*8 - 424*

Lab Sample ID: LCSD 480-635927/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 636217
Prep Batch: 635927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	32.5		ug/L		65	44 - 142	29	34
1,2-Dichlorobenzene	50.0	28.5		ug/L		57	32 - 129	37	38
1,3-Dichlorobenzene	50.0	26.9		ug/L		54	1 - 172	36	37
1,4-Dichlorobenzene	50.0	28.1		ug/L		56	20 - 124	34	40
2,2'-Oxybis(1-chloropropane)	50.0	28.4		ug/L		57	36 - 166	32	36
2,4,6-Trichlorophenol	50.0	37.7	*1	ug/L		75	37 - 144	25	20
2,4-Dichlorophenol	50.0	35.4	*1	ug/L		71	39 - 135	32	23
2,4-Dimethylphenol	50.0	32.6	*1	ug/L		65	32 - 120	28	18
2,4-Dinitrophenol	100	71.5		ug/L		72	1 - 191	20	29
2,4-Dinitrotoluene	50.0	38.8	*1	ug/L		78	39 - 139	24	20
2,6-Dinitrotoluene	50.0	39.0	*1	ug/L		78	50 - 158	25	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-635927/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 636217
Prep Batch: 635927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	50.0	36.2		ug/L		72	60 - 120	26	30
2-Chlorophenol	50.0	30.3	*1	ug/L		61	23 - 134	37	26
2-Nitrophenol	50.0	33.2	*1	ug/L		66	29 - 182	34	28
3,3'-Dichlorobenzidine	100	82.7		ug/L		83	1 - 262	8	31
4,6-Dinitro-2-methylphenol	100	77.2		ug/L		77	1 - 181	21	30
4-Bromophenyl phenyl ether	50.0	45.6	*1	ug/L		91	53 - 127	20	16
4-Chloro-3-methylphenol	50.0	35.1	*1	ug/L		70	22 - 147	27	16
4-Chlorophenyl phenyl ether	50.0	37.1	*1	ug/L		74	25 - 158	28	15
4-Nitrophenol	100	41.4	*1	ug/L		41	1 - 132	29	24
Acenaphthene	50.0	35.6	*1	ug/L		71	47 - 145	30	25
Acenaphthylene	50.0	37.0	*1	ug/L		74	33 - 145	25	22
Anthracene	50.0	42.8	*1	ug/L		86	27 - 133	19	15
Benzidine	100	72.1	J	ug/L		72	1 - 120	25	50
Benzo[a]anthracene	50.0	42.6	*1	ug/L		85	33 - 143	19	15
Benzo[a]pyrene	50.0	42.8	*1	ug/L		86	17 - 163	21	15
Benzo[b]fluoranthene	50.0	39.2	*1	ug/L		78	24 - 159	29	17
Benzo[g,h,i]perylene	50.0	48.9	*1	ug/L		98	1 - 219	21	19
Benzo[k]fluoranthene	50.0	46.4		ug/L		93	11 - 162	6	19
Bis(2-chloroethoxy)methane	50.0	32.1	*1	ug/L		64	33 - 184	24	23
Bis(2-chloroethyl)ether	50.0	29.8		ug/L		60	12 - 158	31	33
Bis(2-ethylhexyl) phthalate	50.0	39.0	*1	ug/L		78	8 - 158	23	15
Butyl benzyl phthalate	50.0	40.5	*1	ug/L		81	1 - 152	21	15
Chrysene	50.0	42.7	*1	ug/L		85	17 - 168	19	15
Di-n-butyl phthalate	50.0	44.3	*1	ug/L		89	1 - 120	21	15
Di-n-octyl phthalate	50.0	40.9	*1	ug/L		82	4 - 146	20	15
Dibenz(a,h)anthracene	50.0	48.4	*1	ug/L		97	1 - 227	22	18
Diethyl phthalate	50.0	40.5	*1	ug/L		81	1 - 120	22	15
Dimethyl phthalate	50.0	39.5	*1	ug/L		79	1 - 120	23	15
Fluoranthene	50.0	44.6	*1	ug/L		89	26 - 137	22	15
Fluorene	50.0	39.3	*1	ug/L		79	59 - 121	24	18
Hexachlorobenzene	50.0	45.8	*1	ug/L		92	1 - 152	17	15
Hexachlorocyclopentadiene	50.0	23.8		ug/L		48	5 - 120	30	50
Hexachloroethane	50.0	25.7		ug/L		51	40 - 120	39	43
Indeno[1,2,3-cd]pyrene	50.0	48.7	*1	ug/L		97	1 - 171	23	17
Isophorone	50.0	32.6	*1	ug/L		65	21 - 196	30	21
N-Nitrosodi-n-propylamine	50.0	31.4	*1	ug/L		63	1 - 230	31	23
N-Nitrosodiphenylamine	50.0	42.1	*1	ug/L		84	54 - 125	24	15
Naphthalene	50.0	32.4		ug/L		65	21 - 133	27	31
Nitrobenzene	50.0	31.8		ug/L		64	35 - 180	20	27
Pentachlorophenol	100	97.2		ug/L		97	14 - 176	21	21
Phenanthrene	50.0	41.8	*1	ug/L		84	54 - 120	20	16
Phenol	50.0	14.2		ug/L		28	5 - 120	26	36
Pyrene	50.0	41.3	*1	ug/L		83	52 - 120	20	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*90*		*52 - 151*
2-Fluorobiphenyl	*68*		*44 - 120*
2-Fluorophenol	*35*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-635927/3-A
Matrix: Water
Analysis Batch: 636217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 635927

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*56*		*15 - 314*
p-Terphenyl-d14	*78*		*22 - 125*
Phenol-d5	*29*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-636074/1-A
Matrix: Water
Analysis Batch: 636338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		08/04/22 09:08	08/04/22 19:45	1

Lab Sample ID: LCS 480-636074/2-A
Matrix: Water
Analysis Batch: 636338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.200		mg/L		100	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-635992/1-A
Matrix: Water
Analysis Batch: 636085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/03/22 11:05	08/03/22 15:11	1

Lab Sample ID: LCS 480-635992/2-A
Matrix: Water
Analysis Batch: 636085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00643		mg/L		96	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-636034/1-A
Matrix: Water
Analysis Batch: 636198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00687	J	0.010	0.0050	mg/L		08/03/22 12:07	08/04/22 11:40	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-636034/2-A
Matrix: Water
Analysis Batch: 636198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636034

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.407		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-636034/3-A
Matrix: Water
Analysis Batch: 636198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636034

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.237		mg/L		95	90 - 110		

Lab Sample ID: LCSD 480-636034/4-A
Matrix: Water
Analysis Batch: 636198

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 636034

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			0.250	0.239		mg/L		96	90 - 110	1	15

Lab Sample ID: 480-200266-6 MS
Matrix: Water
Analysis Batch: 636198

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 636034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.12	B	0.00500	0.126	4	mg/L		80	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-636368/1
Matrix: Water
Analysis Batch: 636368

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

GC/MS VOA

Analysis Batch: 635808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-5	TRIP BLANK	Total/NA	Water	624.1	
480-200266-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-635808/9	Method Blank	Total/NA	Water	624.1	
LCS 480-635808/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 635927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	625	
MB 480-635927/1-A	Method Blank	Total/NA	Water	625	
LCS 480-635927/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-635927/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 636217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	625.1	635927
MB 480-635927/1-A	Method Blank	Total/NA	Water	625.1	635927
LCS 480-635927/2-A	Lab Control Sample	Total/NA	Water	625.1	635927
LCSD 480-635927/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	635927

Metals

Prep Batch: 635992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-635992/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-635992/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 636074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-636074/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-636074/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 636085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	245.1	635992
MB 480-635992/1-A	Method Blank	Total/NA	Water	245.1	635992
LCS 480-635992/2-A	Lab Control Sample	Total/NA	Water	245.1	635992

Analysis Batch: 636338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	636074
MB 480-636074/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	636074
LCS 480-636074/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	636074

General Chemistry

Prep Batch: 636034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 636034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-636034/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-636034/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-636034/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 480-636034/4-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
480-200266-6 MS	001 LAB COMP	Total/NA	Water	Distill/CN	

Analysis Batch: 636198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	335.4	636034
MB 480-636034/1-A	Method Blank	Total/NA	Water	335.4	636034
LCS 480-636034/2-A	Lab Control Sample	Total/NA	Water	335.4	636034
LCS 480-636034/3-A	Lab Control Sample	Total/NA	Water	335.4	636034
LCSD 480-636034/4-A	Lab Control Sample Dup	Total/NA	Water	335.4	636034
480-200266-6 MS	001 LAB COMP	Total/NA	Water	335.4	636034

Analysis Batch: 636368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-200266-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-636368/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-200266-5

Date Collected: 08/01/22 00:00
Matrix: Water
Date Received: 08/01/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	635808	08/02/22 15:44	ATG	EETNE BUF

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-200266-6

Date Collected: 08/01/22 10:35
Matrix: Water
Date Received: 08/01/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	635808	08/02/22 15:20	ATG	EETNE BUF
Total/NA	Prep	625			635927	08/02/22 16:16	CMC	EETNE BUF
Total/NA	Analysis	625.1		1	636217	08/04/22 19:06	PJQ	EETNE BUF
Total/NA	Prep	200.7			636074	08/04/22 09:08	NZG	EETNE BUF
Total/NA	Analysis	200.7 Rev 4.4		1	636338	08/04/22 20:27	BMB	EETNE BUF
Total/NA	Prep	245.1			635992	08/03/22 11:05	NVK	EETNE BUF
Total/NA	Analysis	245.1		1	636085	08/03/22 15:22	NVK	EETNE BUF
Total/NA	Prep	Distill/CN			636034	08/03/22 12:07	HJH	EETNE BUF
Total/NA	Analysis	335.4		1	636198	08/04/22 11:50	HJH	EETNE BUF
Total/NA	Analysis	SM 4500 H+ B		1	636368	08/05/22 10:54	ARR	EETNE BUF

Laboratory References:

EETNE BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EETNE BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EETNE BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EETNE BUF
245.1	Mercury (CVAA)	EPA	EETNE BUF
335.4	Cyanide, Total	MCAWW	EETNE BUF
SM 4500 H+ B	pH	SM	EETNE BUF
200.7	Preparation, Total Metals	EPA	EETNE BUF
245.1	Preparation, Mercury	EPA	EETNE BUF
625	Liquid-Liquid Extraction	40CFR136A	EETNE BUF
Distill/CN	Distillation, Cyanide	None	EETNE BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

EETNE BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-200266-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-200266-5	TRIP BLANK	Water	08/01/22 00:00	08/01/22 13:00
480-200266-6	001 LAB COMP	Water	08/01/22 10:35	08/01/22 13:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171460-34075.1
Client Contact: Jason Gutkowski	Phone: 315 473 6305	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested
City: Syracuse	TAT Requested (days): Standard Turn	
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No	
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: 30125855 Needed 30082116 (PB)	
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001	
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056	
Site:	SSOW#:	

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, Y - Trizma, 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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	8/1/22	0635	G	Water			X	X	X	X	X			Lab To
001-2	↓	0935	↓	Water			X	X	X	X	X			Composite
001-3		1035		↓			X	X	X	X	X			Samples
001-4		1235					X	X	X	X	X			
Trip Blank	—	—	—									X		
														Short Hold Time

480-200266 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sample
☐ 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: Dan Strobel	Date/Time: 8/1/22 1253	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-1-22 1300	Company JAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 8.2 #1 ICE

Ver: 06/08/2021

8/9/2022

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-200266-1

Login Number: 200266

List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-201354-1
Client Project/Site: Iroquois Gas/Westwood Pharm.Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
9/22/2022 12:39:23 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
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

Job ID: 480-201354-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-201354-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 9/9 as requested by the client: 001 LAB COMP (480-201354-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The continuing calibration verification (CCV) associated with batch 480-641316 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 001 LAB COMP (480-201354-6).

Method 625.1: The method blank (MB), laboratory control sample (LCS), and laboratory control sample (LCSD) associated with this job had low surrogate recoveries. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported. 001 LAB COMP (480-201354-6)

Method 625.1: Surrogate recovery for the following sample was outside control limits: 001 LAB COMP (480-201354-6). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Both sets of data have been reported.

Method 625.1: The laboratory control sample (LCS) for preparation batch 480-641164 and analytical batch 480-641316 recovered outside control limits for multiple analytes. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

Method 625.1: The continuing calibration verification (CCV) associated with batch 480-642023 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 001 LAB COMP (480-201354-6).

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
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-201354-6).

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

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-641164.

Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP)

Job ID: 480-201354-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

associated with preparation batch 480-641734.

Method 625: The following sample was re-prepared outside of preparation holding time due to low recoveries throughout the batch: 001 LAB COMP (480-201354-6).

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
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-201354-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate - RE	4.1	J H	4.8	0.24	ug/L	1		625.1	Total/NA
Cyanide, Total	0.11		0.010	0.0050	mg/L	1		335.4	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-201354-5

Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/08/22 18:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/08/22 18:25	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/08/22 18:25	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/08/22 18:25	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/08/22 18:25	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/08/22 18:25	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/08/22 18:25	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/08/22 18:25	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/08/22 18:25	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/08/22 18:25	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/08/22 18:25	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/08/22 18:25	1
Acrolein	ND		100	17	ug/L			09/08/22 18:25	1
Acrylonitrile	ND		50	1.9	ug/L			09/08/22 18:25	1
Benzene	ND		5.0	0.60	ug/L			09/08/22 18:25	1
Bromoform	ND		5.0	0.47	ug/L			09/08/22 18:25	1
Bromomethane	ND		5.0	1.2	ug/L			09/08/22 18:25	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/08/22 18:25	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/08/22 18:25	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/08/22 18:25	1
Chloroethane	ND		5.0	0.87	ug/L			09/08/22 18:25	1
Chloroform	ND		5.0	0.54	ug/L			09/08/22 18:25	1
Chloromethane	ND		5.0	0.64	ug/L			09/08/22 18:25	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/08/22 18:25	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/08/22 18:25	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/08/22 18:25	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/08/22 18:25	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/08/22 18:25	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/08/22 18:25	1
Toluene	ND		5.0	0.45	ug/L			09/08/22 18:25	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/08/22 18:25	1
Trichloroethene	ND		5.0	0.60	ug/L			09/08/22 18:25	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/08/22 18:25	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/08/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*68 - 130*		*09/08/22 18:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 123*		*09/08/22 18:25*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*09/08/22 18:25*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/08/22 18:25*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6

Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/08/22 18:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/08/22 18:49	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/08/22 18:49	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6
Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/08/22 18:49	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/08/22 18:49	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/08/22 18:49	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/08/22 18:49	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/08/22 18:49	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/08/22 18:49	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/08/22 18:49	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/08/22 18:49	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/08/22 18:49	1
Acrolein	ND		100	17	ug/L			09/08/22 18:49	1
Acrylonitrile	ND		50	1.9	ug/L			09/08/22 18:49	1
Benzene	ND		5.0	0.60	ug/L			09/08/22 18:49	1
Bromoform	ND		5.0	0.47	ug/L			09/08/22 18:49	1
Bromomethane	ND		5.0	1.2	ug/L			09/08/22 18:49	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/08/22 18:49	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/08/22 18:49	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/08/22 18:49	1
Chloroethane	ND		5.0	0.87	ug/L			09/08/22 18:49	1
Chloroform	ND		5.0	0.54	ug/L			09/08/22 18:49	1
Chloromethane	ND		5.0	0.64	ug/L			09/08/22 18:49	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/08/22 18:49	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/08/22 18:49	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/08/22 18:49	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/08/22 18:49	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/08/22 18:49	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/08/22 18:49	1
Toluene	ND		5.0	0.45	ug/L			09/08/22 18:49	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/08/22 18:49	1
Trichloroethene	ND		5.0	0.60	ug/L			09/08/22 18:49	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/08/22 18:49	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/08/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*68 - 130*		*09/08/22 18:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*09/08/22 18:49*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*09/08/22 18:49*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/08/22 18:49*	*1*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*-	9.5	0.20	ug/L		09/13/22 09:30	09/14/22 16:18	1
1,2-Dichlorobenzene	ND	*-	9.5	0.25	ug/L		09/13/22 09:30	09/14/22 16:18	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		09/13/22 09:30	09/14/22 16:18	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		09/13/22 09:30	09/14/22 16:18	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,2'-Oxybis(1-chloropropane)	ND	*-	4.8	0.20	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		09/13/22 09:30	09/14/22 16:18	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6
Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		09/13/22 09:30	09/14/22 16:18	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
2-Chloronaphthalene	ND	*-	4.8	0.22	ug/L		09/13/22 09:30	09/14/22 16:18	1
2-Chlorophenol	ND		4.8	0.16	ug/L		09/13/22 09:30	09/14/22 16:18	1
2-Nitrophenol	ND		4.8	0.17	ug/L		09/13/22 09:30	09/14/22 16:18	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		09/13/22 09:30	09/14/22 16:18	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		09/13/22 09:30	09/14/22 16:18	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		09/13/22 09:30	09/14/22 16:18	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		09/13/22 09:30	09/14/22 16:18	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		09/13/22 09:30	09/14/22 16:18	1
4-Nitrophenol	ND		14	0.46	ug/L		09/13/22 09:30	09/14/22 16:18	1
Acenaphthene	ND		4.8	0.19	ug/L		09/13/22 09:30	09/14/22 16:18	1
Acenaphthylene	ND		4.8	0.21	ug/L		09/13/22 09:30	09/14/22 16:18	1
Anthracene	ND		4.8	0.33	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzidine	ND		76	13	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		09/13/22 09:30	09/14/22 16:18	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		09/13/22 09:30	09/14/22 16:18	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		09/13/22 09:30	09/14/22 16:18	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		09/13/22 09:30	09/14/22 16:18	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		09/13/22 09:30	09/14/22 16:18	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		09/13/22 09:30	09/14/22 16:18	1
Chrysene	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
Decane	ND		9.5	0.38	ug/L		09/13/22 09:30	09/14/22 16:18	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		09/13/22 09:30	09/14/22 16:18	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		09/13/22 09:30	09/14/22 16:18	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		09/13/22 09:30	09/14/22 16:18	1
Diethyl phthalate	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		09/13/22 09:30	09/14/22 16:18	1
Fluoranthene	ND		4.8	0.38	ug/L		09/13/22 09:30	09/14/22 16:18	1
Fluorene	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		09/13/22 09:30	09/14/22 16:18	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		09/13/22 09:30	09/14/22 16:18	1
Hexachloroethane	ND	*-	4.8	0.14	ug/L		09/13/22 09:30	09/14/22 16:18	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		09/13/22 09:30	09/14/22 16:18	1
Isophorone	ND		4.8	0.18	ug/L		09/13/22 09:30	09/14/22 16:18	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		09/13/22 09:30	09/14/22 16:18	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		09/13/22 09:30	09/14/22 16:18	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		09/13/22 09:30	09/14/22 16:18	1
Naphthalene	ND		4.8	0.20	ug/L		09/13/22 09:30	09/14/22 16:18	1
Nitrobenzene	ND		4.8	0.19	ug/L		09/13/22 09:30	09/14/22 16:18	1
Pentachlorophenol	ND		9.5	0.75	ug/L		09/13/22 09:30	09/14/22 16:18	1
Phenanthrene	ND		4.8	0.29	ug/L		09/13/22 09:30	09/14/22 16:18	1
Phenol	ND		4.8	0.083	ug/L		09/13/22 09:30	09/14/22 16:18	1
Pyrene	ND		4.8	0.33	ug/L		09/13/22 09:30	09/14/22 16:18	1
n-Octadecane	ND		9.5	0.29	ug/L		09/13/22 09:30	09/14/22 16:18	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6

Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	35	S1-	52 - 151	09/13/22 09:30	09/14/22 16:18	1
2-Fluorobiphenyl	26	S1-	44 - 120	09/13/22 09:30	09/14/22 16:18	1
2-Fluorophenol	12	S1-	17 - 120	09/13/22 09:30	09/14/22 16:18	1
Nitrobenzene-d5	24		15 - 314	09/13/22 09:30	09/14/22 16:18	1
p-Terphenyl-d14	79		22 - 125	09/13/22 09:30	09/14/22 16:18	1
Phenol-d5	8		8 - 424	09/13/22 09:30	09/14/22 16:18	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	9.5	0.20	ug/L		09/16/22 10:34	09/20/22 17:34	1
1,2-Dichlorobenzene	ND	H	9.5	0.25	ug/L		09/16/22 10:34	09/20/22 17:34	1
1,2-Diphenylhydrazine	ND	H	9.5	0.19	ug/L		09/16/22 10:34	09/20/22 17:34	1
1,3-Dichlorobenzene	ND	H	9.5	0.16	ug/L		09/16/22 10:34	09/20/22 17:34	1
1,4-Dichlorobenzene	ND	H	9.5	0.20	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,2'-Oxybis(1-chloropropane)	ND	H	4.8	0.20	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,4,6-Trichlorophenol	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,4-Dichlorophenol	ND	H	4.8	0.18	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,4-Dimethylphenol	ND	H	4.8	0.33	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,4-Dinitrophenol	ND	H	9.5	1.2	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,4-Dinitrotoluene	ND	H	9.5	0.38	ug/L		09/16/22 10:34	09/20/22 17:34	1
2,6-Dinitrotoluene	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
2-Chloronaphthalene	ND	H	4.8	0.22	ug/L		09/16/22 10:34	09/20/22 17:34	1
2-Chlorophenol	ND	H	4.8	0.16	ug/L		09/16/22 10:34	09/20/22 17:34	1
2-Nitrophenol	ND	H	4.8	0.17	ug/L		09/16/22 10:34	09/20/22 17:34	1
3,3'-Dichlorobenzidine	ND	H	4.8	0.38	ug/L		09/16/22 10:34	09/20/22 17:34	1
4,6-Dinitro-2-methylphenol	ND	H	9.5	0.43	ug/L		09/16/22 10:34	09/20/22 17:34	1
4-Bromophenyl phenyl ether	ND	H	4.8	0.33	ug/L		09/16/22 10:34	09/20/22 17:34	1
4-Chloro-3-methylphenol	ND	H	4.8	0.26	ug/L		09/16/22 10:34	09/20/22 17:34	1
4-Chlorophenyl phenyl ether	ND	H	4.8	0.31	ug/L		09/16/22 10:34	09/20/22 17:34	1
4-Nitrophenol	ND	H	14	0.46	ug/L		09/16/22 10:34	09/20/22 17:34	1
Acenaphthene	ND	H	4.8	0.19	ug/L		09/16/22 10:34	09/20/22 17:34	1
Acenaphthylene	ND	H	4.8	0.21	ug/L		09/16/22 10:34	09/20/22 17:34	1
Anthracene	ND	H	4.8	0.33	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzidine	ND	H	76	13	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzo[a]anthracene	ND	H	4.8	0.26	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzo[a]pyrene	ND	H	4.8	0.31	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzo[b]fluoranthene	ND	H	4.8	0.29	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzo[g,h,i]perylene	ND	H	4.8	0.36	ug/L		09/16/22 10:34	09/20/22 17:34	1
Benzo[k]fluoranthene	ND	H	4.8	0.31	ug/L		09/16/22 10:34	09/20/22 17:34	1
Bis(2-chloroethoxy)methane	ND	H	4.8	0.18	ug/L		09/16/22 10:34	09/20/22 17:34	1
Bis(2-chloroethyl)ether	ND	H	4.8	0.22	ug/L		09/16/22 10:34	09/20/22 17:34	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	0.29	ug/L		09/16/22 10:34	09/20/22 17:34	1
Butyl benzyl phthalate	ND	H	4.8	0.26	ug/L		09/16/22 10:34	09/20/22 17:34	1
Chrysene	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
Decane	ND	H	9.5	0.38	ug/L		09/16/22 10:34	09/20/22 17:34	1
Di-n-butyl phthalate	ND	H	4.8	0.38	ug/L		09/16/22 10:34	09/20/22 17:34	1
Di-n-octyl phthalate	ND	H	4.8	0.29	ug/L		09/16/22 10:34	09/20/22 17:34	1
Dibenz(a,h)anthracene	ND	H	4.8	0.36	ug/L		09/16/22 10:34	09/20/22 17:34	1
Diethyl phthalate	**4.1**	**J H**	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
Dimethyl phthalate	ND	H	4.8	0.22	ug/L		09/16/22 10:34	09/20/22 17:34	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6
Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	H	4.8	0.38	ug/L		09/16/22 10:34	09/20/22 17:34	1
Fluorene	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
Hexachlorobenzene	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
Hexachlorobutadiene	ND	H	4.8	0.24	ug/L		09/16/22 10:34	09/20/22 17:34	1
Hexachlorocyclopentadiene	ND	H	9.5	0.50	ug/L		09/16/22 10:34	09/20/22 17:34	1
Hexachloroethane	ND	H	4.8	0.14	ug/L		09/16/22 10:34	09/20/22 17:34	1
Indeno[1,2,3-cd]pyrene	ND	H	4.8	0.36	ug/L		09/16/22 10:34	09/20/22 17:34	1
Isophorone	ND	H	4.8	0.18	ug/L		09/16/22 10:34	09/20/22 17:34	1
N-Nitrosodi-n-propylamine	ND	H	4.8	0.21	ug/L		09/16/22 10:34	09/20/22 17:34	1
N-Nitrosodimethylamine	ND	H	9.5	0.14	ug/L		09/16/22 10:34	09/20/22 17:34	1
N-Nitrosodiphenylamine	ND	H	4.8	0.20	ug/L		09/16/22 10:34	09/20/22 17:34	1
Naphthalene	ND	H	4.8	0.20	ug/L		09/16/22 10:34	09/20/22 17:34	1
Nitrobenzene	ND	H	4.8	0.19	ug/L		09/16/22 10:34	09/20/22 17:34	1
Pentachlorophenol	ND	H	9.5	0.75	ug/L		09/16/22 10:34	09/20/22 17:34	1
Phenanthrene	ND	H	4.8	0.29	ug/L		09/16/22 10:34	09/20/22 17:34	1
Phenol	ND	H	4.8	0.083	ug/L		09/16/22 10:34	09/20/22 17:34	1
Pyrene	ND	H	4.8	0.33	ug/L		09/16/22 10:34	09/20/22 17:34	1
n-Octadecane	ND	H	9.5	0.29	ug/L		09/16/22 10:34	09/20/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*52 - 151*	*09/16/22 10:34*	*09/20/22 17:34*	*1*
2-Fluorobiphenyl	*87*		*44 - 120*	*09/16/22 10:34*	*09/20/22 17:34*	*1*
2-Fluorophenol	*46*		*17 - 120*	*09/16/22 10:34*	*09/20/22 17:34*	*1*
Nitrobenzene-d5	*85*		*15 - 314*	*09/16/22 10:34*	*09/20/22 17:34*	*1*
p-Terphenyl-d14	*90*		*22 - 125*	*09/16/22 10:34*	*09/20/22 17:34*	*1*
Phenol-d5	*32*		*8 - 424*	*09/16/22 10:34*	*09/20/22 17:34*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		09/09/22 08:58	09/09/22 18:09	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/09/22 12:29	09/09/22 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.11**		0.010	0.0050	mg/L		09/12/22 10:44	09/12/22 12:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**	0.1	0.1	SU			09/12/22 08:18	1
Temperature	**21.6**	**HF**	0.001	0.001	Degrees C			09/12/22 08:18	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-201354-5	TRIP BLANK	120	105	100	109
480-201354-6	001 LAB COMP	117	103	99	109
LCS 480-640690/6	Lab Control Sample	120	103	99	105
MB 480-640690/8	Method Blank	117	103	99	109

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-201354-6	001 LAB COMP	35 S1-	26 S1-	12 S1-	24	79	8
480-201354-6 - RE	001 LAB COMP	72	87	46	85	90	32
LCS 480-641164/2-A	Lab Control Sample	86	40 S1-	14 S1-	36	100	14
LCS 480-641734/2-A	Lab Control Sample	92	85	45	79	97	33
LCSD 480-641164/3-A	Lab Control Sample Dup	80	44	15 S1-	36	97	14
LCSD 480-641734/3-A	Lab Control Sample Dup	91	90	49	85	101	37
MB 480-641164/1-A	Method Blank	56	28 S1-	13 S1-	27	84	9
MB 480-641734/1-A	Method Blank	76	88	47	83	104	33

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-640690/8
Matrix: Water
Analysis Batch: 640690

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/08/22 17:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/08/22 17:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/08/22 17:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/08/22 17:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/08/22 17:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/08/22 17:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/08/22 17:02	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/08/22 17:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/08/22 17:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/08/22 17:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/08/22 17:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/08/22 17:02	1
Acrolein	ND		100	17	ug/L			09/08/22 17:02	1
Acrylonitrile	ND		50	1.9	ug/L			09/08/22 17:02	1
Benzene	ND		5.0	0.60	ug/L			09/08/22 17:02	1
Bromoform	ND		5.0	0.47	ug/L			09/08/22 17:02	1
Bromomethane	ND		5.0	1.2	ug/L			09/08/22 17:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/08/22 17:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/08/22 17:02	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/08/22 17:02	1
Chloroethane	ND		5.0	0.87	ug/L			09/08/22 17:02	1
Chloroform	ND		5.0	0.54	ug/L			09/08/22 17:02	1
Chloromethane	ND		5.0	0.64	ug/L			09/08/22 17:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/08/22 17:02	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/08/22 17:02	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/08/22 17:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/08/22 17:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/08/22 17:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/08/22 17:02	1
Toluene	ND		5.0	0.45	ug/L			09/08/22 17:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/08/22 17:02	1
Trichloroethene	ND		5.0	0.60	ug/L			09/08/22 17:02	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/08/22 17:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/08/22 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*68 - 130*		*09/08/22 17:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*09/08/22 17:02*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*09/08/22 17:02*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/08/22 17:02*	*1*

Lab Sample ID: LCS 480-640690/6
Matrix: Water
Analysis Batch: 640690

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.5		ug/L		103	52 - 162
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		97	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-640690/6
Matrix: Water
Analysis Batch: 640690

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.9		ug/L		99	52 - 150
1,1-Dichloroethane	20.0	19.3		ug/L		97	59 - 155
1,1-Dichloroethene	20.0	19.9		ug/L		99	1 - 234
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	18 - 190
1,2-Dichloroethane	20.0	23.1		ug/L		116	49 - 155
1,2-Dichloropropane	20.0	19.4		ug/L		97	1 - 210
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190
2-Chloroethyl vinyl ether	20.0	20.7	J	ug/L		103	1 - 305
Benzene	20.0	19.0		ug/L		95	37 - 151
Bromoform	20.0	20.8		ug/L		104	45 - 169
Bromomethane	20.0	21.0		ug/L		105	1 - 242
Carbon tetrachloride	20.0	20.7		ug/L		104	70 - 140
Chlorobenzene	20.0	18.7		ug/L		93	37 - 160
Dibromochloromethane	20.0	20.6		ug/L		103	53 - 149
Chloroethane	20.0	21.7		ug/L		108	14 - 230
Chloroform	20.0	20.3		ug/L		102	51 - 138
Chloromethane	20.0	21.4		ug/L		107	1 - 273
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	1 - 227
Bromodichloromethane	20.0	21.3		ug/L		107	35 - 155
Ethylbenzene	20.0	18.8		ug/L		94	37 - 162
Methylene Chloride	20.0	18.5		ug/L		92	1 - 221
Tetrachloroethene	20.0	18.6		ug/L		93	64 - 148
Toluene	20.0	18.8		ug/L		94	47 - 150
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	17 - 183
Trichloroethene	20.0	19.7		ug/L		98	71 - 157
Trichlorofluoromethane	20.0	22.9		ug/L		115	17 - 181
Vinyl chloride	20.0	20.4		ug/L		102	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*68 - 130*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*
Toluene-d8 (Surr)	*99*		*77 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-641164/1-A
Matrix: Water
Analysis Batch: 641316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		09/13/22 09:30	09/14/22 15:05	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		09/13/22 09:30	09/14/22 15:05	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		09/13/22 09:30	09/14/22 15:05	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		09/13/22 09:30	09/14/22 15:05	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-641164/1-A
Matrix: Water
Analysis Batch: 641316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		09/13/22 09:30	09/14/22 15:05	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		09/13/22 09:30	09/14/22 15:05	1
2-Chlorophenol	ND		5.0	0.17	ug/L		09/13/22 09:30	09/14/22 15:05	1
2-Nitrophenol	ND		5.0	0.18	ug/L		09/13/22 09:30	09/14/22 15:05	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/13/22 09:30	09/14/22 15:05	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		09/13/22 09:30	09/14/22 15:05	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		09/13/22 09:30	09/14/22 15:05	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		09/13/22 09:30	09/14/22 15:05	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		09/13/22 09:30	09/14/22 15:05	1
4-Nitrophenol	ND		15	0.49	ug/L		09/13/22 09:30	09/14/22 15:05	1
Acenaphthene	ND		5.0	0.20	ug/L		09/13/22 09:30	09/14/22 15:05	1
Acenaphthylene	ND		5.0	0.22	ug/L		09/13/22 09:30	09/14/22 15:05	1
Anthracene	ND		5.0	0.35	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzidine	ND		80	14	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		09/13/22 09:30	09/14/22 15:05	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		09/13/22 09:30	09/14/22 15:05	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		09/13/22 09:30	09/14/22 15:05	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		09/13/22 09:30	09/14/22 15:05	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		09/13/22 09:30	09/14/22 15:05	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		09/13/22 09:30	09/14/22 15:05	1
Chrysene	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
Decane	ND		10	0.40	ug/L		09/13/22 09:30	09/14/22 15:05	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		09/13/22 09:30	09/14/22 15:05	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		09/13/22 09:30	09/14/22 15:05	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		09/13/22 09:30	09/14/22 15:05	1
Diethyl phthalate	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		09/13/22 09:30	09/14/22 15:05	1
Fluoranthene	ND		5.0	0.40	ug/L		09/13/22 09:30	09/14/22 15:05	1
Fluorene	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		09/13/22 09:30	09/14/22 15:05	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		09/13/22 09:30	09/14/22 15:05	1
Hexachloroethane	ND		5.0	0.15	ug/L		09/13/22 09:30	09/14/22 15:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		09/13/22 09:30	09/14/22 15:05	1
Isophorone	ND		5.0	0.19	ug/L		09/13/22 09:30	09/14/22 15:05	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		09/13/22 09:30	09/14/22 15:05	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		09/13/22 09:30	09/14/22 15:05	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		09/13/22 09:30	09/14/22 15:05	1
Naphthalene	ND		5.0	0.22	ug/L		09/13/22 09:30	09/14/22 15:05	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/13/22 09:30	09/14/22 15:05	1
Pentachlorophenol	ND		10	0.79	ug/L		09/13/22 09:30	09/14/22 15:05	1
Phenanthrene	ND		5.0	0.30	ug/L		09/13/22 09:30	09/14/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-641164/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 641316
Prep Batch: 641164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		09/13/22 09:30	09/14/22 15:05	1
Pyrene	ND		5.0	0.35	ug/L		09/13/22 09:30	09/14/22 15:05	1
n-Octadecane	ND		10	0.30	ug/L		09/13/22 09:30	09/14/22 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*52 - 151*	*09/13/22 09:30*	*09/14/22 15:05*	*1*
2-Fluorobiphenyl	*28*	*S1-*	*44 - 120*	*09/13/22 09:30*	*09/14/22 15:05*	*1*
2-Fluorophenol	*13*	*S1-*	*17 - 120*	*09/13/22 09:30*	*09/14/22 15:05*	*1*
Nitrobenzene-d5	*27*		*15 - 314*	*09/13/22 09:30*	*09/14/22 15:05*	*1*
p-Terphenyl-d14	*84*		*22 - 125*	*09/13/22 09:30*	*09/14/22 15:05*	*1*
Phenol-d5	*9*		*8 - 424*	*09/13/22 09:30*	*09/14/22 15:05*	*1*

Lab Sample ID: LCS 480-641164/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 641316
Prep Batch: 641164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	17.1	*-	ug/L		34	44 - 142
1,2-Dichlorobenzene	50.0	11.1	*-	ug/L		22	32 - 129
1,3-Dichlorobenzene	50.0	9.56	J	ug/L		19	1 - 172
1,4-Dichlorobenzene	50.0	10.0		ug/L		20	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	17.2	*-	ug/L		34	36 - 166
2,4,6-Trichlorophenol	50.0	28.1		ug/L		56	37 - 144
2,4-Dichlorophenol	50.0	22.4		ug/L		45	39 - 135
2,4-Dimethylphenol	50.0	19.8		ug/L		40	32 - 120
2,4-Dinitrophenol	100	112		ug/L		112	1 - 191
2,4-Dinitrotoluene	50.0	47.1		ug/L		94	39 - 139
2,6-Dinitrotoluene	50.0	37.5		ug/L		75	50 - 158
2-Chloronaphthalene	50.0	20.7	*-	ug/L		41	60 - 120
2-Chlorophenol	50.0	14.2		ug/L		28	23 - 134
2-Nitrophenol	50.0	19.0		ug/L		38	29 - 182
3,3'-Dichlorobenzidine	100	103		ug/L		103	1 - 262
4,6-Dinitro-2-methylphenol	100	111		ug/L		111	1 - 181
4-Bromophenyl phenyl ether	50.0	43.0		ug/L		86	53 - 127
4-Chloro-3-methylphenol	50.0	26.1		ug/L		52	22 - 147
4-Chlorophenyl phenyl ether	50.0	40.1		ug/L		80	25 - 158
4-Nitrophenol	100	43.5		ug/L		44	1 - 132
Acenaphthene	50.0	25.2		ug/L		50	47 - 145
Acenaphthylene	50.0	24.4		ug/L		49	33 - 145
Anthracene	50.0	46.7		ug/L		93	27 - 133
Benzidine	100	79.7	J	ug/L		80	1 - 120
Benzo[a]anthracene	50.0	51.2		ug/L		102	33 - 143
Benzo[a]pyrene	50.0	55.9		ug/L		112	17 - 163
Benzo[b]fluoranthene	50.0	55.1		ug/L		110	24 - 159
Benzo[g,h,i]perylene	50.0	55.3		ug/L		111	1 - 219
Benzo[k]fluoranthene	50.0	56.7		ug/L		113	11 - 162
Bis(2-chloroethoxy)methane	50.0	19.1		ug/L		38	33 - 184
Bis(2-chloroethyl)ether	50.0	14.9		ug/L		30	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-641164/2-A
Matrix: Water
Analysis Batch: 641316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	47.6		ug/L		95	8 - 158
Butyl benzyl phthalate	50.0	43.9		ug/L		88	1 - 152
Chrysene	50.0	50.8		ug/L		102	17 - 168
Di-n-butyl phthalate	50.0	50.8		ug/L		102	1 - 120
Di-n-octyl phthalate	50.0	45.3		ug/L		91	4 - 146
Dibenz(a,h)anthracene	50.0	56.0		ug/L		112	1 - 227
Diethyl phthalate	50.0	46.5		ug/L		93	1 - 120
Dimethyl phthalate	50.0	38.5		ug/L		77	1 - 120
Fluoranthene	50.0	50.7		ug/L		101	26 - 137
Fluorene	50.0	34.1		ug/L		68	59 - 121
Hexachlorobenzene	50.0	43.3		ug/L		87	1 - 152
Hexachlorocyclopentadiene	50.0	14.8		ug/L		30	5 - 120
Hexachloroethane	50.0	7.91	*-	ug/L		16	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	54.8		ug/L		110	1 - 171
Isophorone	50.0	22.2		ug/L		44	21 - 196
N-Nitrosodi-n-propylamine	50.0	18.3		ug/L		37	1 - 230
N-Nitrosodiphenylamine	50.0	38.7		ug/L		77	54 - 125
Naphthalene	50.0	16.6		ug/L		33	21 - 133
Nitrobenzene	50.0	19.1		ug/L		38	35 - 180
Pentachlorophenol	100	94.1		ug/L		94	14 - 176
Phenanthrene	50.0	45.6		ug/L		91	54 - 120
Phenol	50.0	6.81		ug/L		14	5 - 120
Pyrene	50.0	47.4		ug/L		95	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*86*		*52 - 151*
2-Fluorobiphenyl	*40*	*S1-*	*44 - 120*
2-Fluorophenol	*14*	*S1-*	*17 - 120*
Nitrobenzene-d5	*36*		*15 - 314*
p-Terphenyl-d14	*100*		*22 - 125*
Phenol-d5	*14*		*8 - 424*

Lab Sample ID: LCSD 480-641164/3-A
Matrix: Water
Analysis Batch: 641316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 641164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	17.4	*-	ug/L		35	44 - 142	2	34
1,2-Dichlorobenzene	50.0	11.7	*-	ug/L		23	32 - 129	6	38
1,3-Dichlorobenzene	50.0	10.5		ug/L		21	1 - 172	9	37
1,4-Dichlorobenzene	50.0	11.0		ug/L		22	20 - 124	9	40
2,2'-Oxybis(1-chloropropane)	50.0	18.4		ug/L		37	36 - 166	7	36
2,4,6-Trichlorophenol	50.0	29.1		ug/L		58	37 - 144	4	20
2,4-Dichlorophenol	50.0	23.3		ug/L		47	39 - 135	4	23
2,4-Dimethylphenol	50.0	20.6		ug/L		41	32 - 120	4	18
2,4-Dinitrophenol	100	109		ug/L		109	1 - 191	2	29
2,4-Dinitrotoluene	50.0	45.1		ug/L		90	39 - 139	4	20
2,6-Dinitrotoluene	50.0	36.1		ug/L		72	50 - 158	4	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-641164/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 641316
Prep Batch: 641164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	50.0	20.7	*-	ug/L		41	60 - 120	0	30
2-Chlorophenol	50.0	15.2		ug/L		30	23 - 134	7	26
2-Nitrophenol	50.0	19.2		ug/L		38	29 - 182	1	28
3,3'-Dichlorobenzidine	100	99.1		ug/L		99	1 - 262	4	31
4,6-Dinitro-2-methylphenol	100	103		ug/L		103	1 - 181	8	30
4-Bromophenyl phenyl ether	50.0	43.0		ug/L		86	53 - 127	0	16
4-Chloro-3-methylphenol	50.0	27.4		ug/L		55	22 - 147	5	16
4-Chlorophenyl phenyl ether	50.0	40.3		ug/L		81	25 - 158	1	15
4-Nitrophenol	100	43.1		ug/L		43	1 - 132	1	24
Acenaphthene	50.0	26.4		ug/L		53	47 - 145	5	25
Acenaphthylene	50.0	26.3		ug/L		53	33 - 145	8	22
Anthracene	50.0	44.7		ug/L		89	27 - 133	4	15
Benzidine	100	78.1	J	ug/L		78	1 - 120	2	50
Benzo[a]anthracene	50.0	50.0		ug/L		100	33 - 143	2	15
Benzo[a]pyrene	50.0	53.5		ug/L		107	17 - 163	4	15
Benzo[b]fluoranthene	50.0	53.7		ug/L		107	24 - 159	3	17
Benzo[g,h,i]perylene	50.0	53.5		ug/L		107	1 - 219	3	19
Benzo[k]fluoranthene	50.0	54.2		ug/L		108	11 - 162	4	19
Bis(2-chloroethoxy)methane	50.0	18.6		ug/L		37	33 - 184	2	23
Bis(2-chloroethyl)ether	50.0	16.0		ug/L		32	12 - 158	7	33
Bis(2-ethylhexyl) phthalate	50.0	45.2		ug/L		90	8 - 158	5	15
Butyl benzyl phthalate	50.0	41.4		ug/L		83	1 - 152	6	15
Chrysene	50.0	50.9		ug/L		102	17 - 168	0	15
Di-n-butyl phthalate	50.0	47.5		ug/L		95	1 - 120	7	15
Di-n-octyl phthalate	50.0	44.4		ug/L		89	4 - 146	2	15
Dibenz(a,h)anthracene	50.0	52.6		ug/L		105	1 - 227	6	18
Diethyl phthalate	50.0	44.7		ug/L		89	1 - 120	4	15
Dimethyl phthalate	50.0	38.9		ug/L		78	1 - 120	1	15
Fluoranthene	50.0	48.8		ug/L		98	26 - 137	4	15
Fluorene	50.0	34.1		ug/L		68	59 - 121	0	18
Hexachlorobenzene	50.0	42.4		ug/L		85	1 - 152	2	15
Hexachlorocyclopentadiene	50.0	15.4		ug/L		31	5 - 120	4	50
Hexachloroethane	50.0	8.54	*-	ug/L		17	40 - 120	8	43
Indeno[1,2,3-cd]pyrene	50.0	54.2		ug/L		108	1 - 171	1	17
Isophorone	50.0	22.5		ug/L		45	21 - 196	2	21
N-Nitrosodi-n-propylamine	50.0	18.3		ug/L		37	1 - 230	0	23
N-Nitrosodiphenylamine	50.0	35.9		ug/L		72	54 - 125	8	15
Naphthalene	50.0	16.9		ug/L		34	21 - 133	2	31
Nitrobenzene	50.0	17.6		ug/L		35	35 - 180	8	27
Pentachlorophenol	100	88.8		ug/L		89	14 - 176	6	21
Phenanthrene	50.0	43.1		ug/L		86	54 - 120	5	16
Phenol	50.0	7.11		ug/L		14	5 - 120	4	36
Pyrene	50.0	45.0		ug/L		90	52 - 120	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*80*		*52 - 151*
2-Fluorobiphenyl	*44*		*44 - 120*
2-Fluorophenol	*15*	*S1-*	*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-641164/3-A
Matrix: Water
Analysis Batch: 641316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 641164

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	36		15 - 314
p-Terphenyl-d14	97		22 - 125
Phenol-d5	14		8 - 424

Lab Sample ID: MB 480-641734/1-A
Matrix: Water
Analysis Batch: 642023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		09/16/22 10:34	09/20/22 16:21	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		09/16/22 10:34	09/20/22 16:21	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		09/16/22 10:34	09/20/22 16:21	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		09/16/22 10:34	09/20/22 16:21	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		09/16/22 10:34	09/20/22 16:21	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		09/16/22 10:34	09/20/22 16:21	1
2-Chlorophenol	ND		5.0	0.17	ug/L		09/16/22 10:34	09/20/22 16:21	1
2-Nitrophenol	ND		5.0	0.18	ug/L		09/16/22 10:34	09/20/22 16:21	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/16/22 10:34	09/20/22 16:21	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		09/16/22 10:34	09/20/22 16:21	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		09/16/22 10:34	09/20/22 16:21	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		09/16/22 10:34	09/20/22 16:21	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		09/16/22 10:34	09/20/22 16:21	1
4-Nitrophenol	ND		15	0.49	ug/L		09/16/22 10:34	09/20/22 16:21	1
Acenaphthene	ND		5.0	0.20	ug/L		09/16/22 10:34	09/20/22 16:21	1
Acenaphthylene	ND		5.0	0.22	ug/L		09/16/22 10:34	09/20/22 16:21	1
Anthracene	ND		5.0	0.35	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzidine	ND		80	14	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		09/16/22 10:34	09/20/22 16:21	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		09/16/22 10:34	09/20/22 16:21	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		09/16/22 10:34	09/20/22 16:21	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		09/16/22 10:34	09/20/22 16:21	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		09/16/22 10:34	09/20/22 16:21	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		09/16/22 10:34	09/20/22 16:21	1
Chrysene	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
Decane	ND		10	0.40	ug/L		09/16/22 10:34	09/20/22 16:21	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		09/16/22 10:34	09/20/22 16:21	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		09/16/22 10:34	09/20/22 16:21	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		09/16/22 10:34	09/20/22 16:21	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-641734/1-A
Matrix: Water
Analysis Batch: 642023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		09/16/22 10:34	09/20/22 16:21	1
Fluoranthene	ND		5.0	0.40	ug/L		09/16/22 10:34	09/20/22 16:21	1
Fluorene	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		09/16/22 10:34	09/20/22 16:21	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		09/16/22 10:34	09/20/22 16:21	1
Hexachloroethane	ND		5.0	0.15	ug/L		09/16/22 10:34	09/20/22 16:21	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		09/16/22 10:34	09/20/22 16:21	1
Isophorone	ND		5.0	0.19	ug/L		09/16/22 10:34	09/20/22 16:21	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		09/16/22 10:34	09/20/22 16:21	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		09/16/22 10:34	09/20/22 16:21	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		09/16/22 10:34	09/20/22 16:21	1
Naphthalene	ND		5.0	0.22	ug/L		09/16/22 10:34	09/20/22 16:21	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/16/22 10:34	09/20/22 16:21	1
Pentachlorophenol	ND		10	0.79	ug/L		09/16/22 10:34	09/20/22 16:21	1
Phenanthrene	ND		5.0	0.30	ug/L		09/16/22 10:34	09/20/22 16:21	1
Phenol	ND		5.0	0.088	ug/L		09/16/22 10:34	09/20/22 16:21	1
Pyrene	ND		5.0	0.35	ug/L		09/16/22 10:34	09/20/22 16:21	1
n-Octadecane	ND		10	0.30	ug/L		09/16/22 10:34	09/20/22 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*52 - 151*	*09/16/22 10:34*	*09/20/22 16:21*	*1*
2-Fluorobiphenyl	*88*		*44 - 120*	*09/16/22 10:34*	*09/20/22 16:21*	*1*
2-Fluorophenol	*47*		*17 - 120*	*09/16/22 10:34*	*09/20/22 16:21*	*1*
Nitrobenzene-d5	*83*		*15 - 314*	*09/16/22 10:34*	*09/20/22 16:21*	*1*
p-Terphenyl-d14	*104*		*22 - 125*	*09/16/22 10:34*	*09/20/22 16:21*	*1*
Phenol-d5	*33*		*8 - 424*	*09/16/22 10:34*	*09/20/22 16:21*	*1*

Lab Sample ID: LCS 480-641734/2-A
Matrix: Water
Analysis Batch: 642023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	43.7		ug/L		87	44 - 142
1,2-Dichlorobenzene	50.0	32.3		ug/L		65	32 - 129
1,3-Dichlorobenzene	50.0	30.5		ug/L		61	1 - 172
1,4-Dichlorobenzene	50.0	30.7		ug/L		61	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	40.3		ug/L		81	36 - 166
2,4,6-Trichlorophenol	50.0	50.0		ug/L		100	37 - 144
2,4-Dichlorophenol	50.0	48.4		ug/L		97	39 - 135
2,4-Dimethylphenol	50.0	44.4		ug/L		89	32 - 120
2,4-Dinitrophenol	100	113		ug/L		113	1 - 191
2,4-Dinitrotoluene	50.0	48.8		ug/L		98	39 - 139
2,6-Dinitrotoluene	50.0	46.6		ug/L		93	50 - 158
2-Chloronaphthalene	50.0	42.5		ug/L		85	60 - 120
2-Chlorophenol	50.0	36.6		ug/L		73	23 - 134
2-Nitrophenol	50.0	41.7		ug/L		83	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-641734/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642023
Prep Batch: 641734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	100	90.5		ug/L		90	1 - 262
4,6-Dinitro-2-methylphenol	100	103		ug/L		103	1 - 181
4-Bromophenyl phenyl ether	50.0	49.8		ug/L		100	53 - 127
4-Chloro-3-methylphenol	50.0	45.0		ug/L		90	22 - 147
4-Chlorophenyl phenyl ether	50.0	56.0		ug/L		112	25 - 158
4-Nitrophenol	100	47.3		ug/L		47	1 - 132
Acenaphthene	50.0	44.1		ug/L		88	47 - 145
Acenaphthylene	50.0	44.4		ug/L		89	33 - 145
Anthracene	50.0	48.9		ug/L		98	27 - 133
Benzidine	100	76.8	J	ug/L		77	1 - 120
Benzo[a]anthracene	50.0	47.1		ug/L		94	33 - 143
Benzo[a]pyrene	50.0	52.2		ug/L		104	17 - 163
Benzo[b]fluoranthene	50.0	51.0		ug/L		102	24 - 159
Benzo[g,h,i]perylene	50.0	52.2		ug/L		104	1 - 219
Benzo[k]fluoranthene	50.0	53.4		ug/L		107	11 - 162
Bis(2-chloroethoxy)methane	50.0	42.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	37.7		ug/L		75	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	39.8		ug/L		80	8 - 158
Butyl benzyl phthalate	50.0	39.6		ug/L		79	1 - 152
Chrysene	50.0	48.5		ug/L		97	17 - 168
Di-n-butyl phthalate	50.0	46.5		ug/L		93	1 - 120
Di-n-octyl phthalate	50.0	39.6		ug/L		79	4 - 146
Dibenz(a,h)anthracene	50.0	53.9		ug/L		108	1 - 227
Diethyl phthalate	50.0	47.9		ug/L		96	1 - 120
Dimethyl phthalate	50.0	46.6		ug/L		93	1 - 120
Fluoranthene	50.0	49.8		ug/L		100	26 - 137
Fluorene	50.0	46.9		ug/L		94	59 - 121
Hexachlorobenzene	50.0	45.6		ug/L		91	1 - 152
Hexachlorocyclopentadiene	50.0	38.9		ug/L		78	5 - 120
Hexachloroethane	50.0	27.2		ug/L		54	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	53.1		ug/L		106	1 - 171
Isophorone	50.0	45.2		ug/L		90	21 - 196
N-Nitrosodi-n-propylamine	50.0	40.9		ug/L		82	1 - 230
N-Nitrosodiphenylamine	50.0	42.4		ug/L		85	54 - 125
Naphthalene	50.0	37.9		ug/L		76	21 - 133
Nitrobenzene	50.0	40.9		ug/L		82	35 - 180
Pentachlorophenol	100	80.5		ug/L		80	14 - 176
Phenanthrene	50.0	47.1		ug/L		94	54 - 120
Phenol	50.0	16.0		ug/L		32	5 - 120
Pyrene	50.0	44.5		ug/L		89	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*92*		*52 - 151*
2-Fluorobiphenyl	*85*		*44 - 120*
2-Fluorophenol	*45*		*17 - 120*
Nitrobenzene-d5	*79*		*15 - 314*
p-Terphenyl-d14	*97*		*22 - 125*
Phenol-d5	*33*		*8 - 424*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-641734/3-A
Matrix: Water
Analysis Batch: 642023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 641734

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			50.0	44.8		ug/L		90	44 - 142	2	34
1,2-Dichlorobenzene			50.0	35.2		ug/L		70	32 - 129	9	38
1,3-Dichlorobenzene			50.0	32.4		ug/L		65	1 - 172	6	37
1,4-Dichlorobenzene			50.0	33.6		ug/L		67	20 - 124	9	40
2,2'-Oxybis(1-chloropropane)			50.0	43.4		ug/L		87	36 - 166	7	36
2,4,6-Trichlorophenol			50.0	51.2		ug/L		102	37 - 144	2	20
2,4-Dichlorophenol			50.0	48.9		ug/L		98	39 - 135	1	23
2,4-Dimethylphenol			50.0	47.0		ug/L		94	32 - 120	6	18
2,4-Dinitrophenol			100	126		ug/L		126	1 - 191	11	29
2,4-Dinitrotoluene			50.0	50.8		ug/L		102	39 - 139	4	20
2,6-Dinitrotoluene			50.0	49.8		ug/L		100	50 - 158	7	17
2-Chloronaphthalene			50.0	45.0		ug/L		90	60 - 120	6	30
2-Chlorophenol			50.0	36.8		ug/L		74	23 - 134	1	26
2-Nitrophenol			50.0	44.5		ug/L		89	29 - 182	6	28
3,3'-Dichlorobenzidine			100	98.5		ug/L		98	1 - 262	8	31
4,6-Dinitro-2-methylphenol			100	109		ug/L		109	1 - 181	6	30
4-Bromophenyl phenyl ether			50.0	52.3		ug/L		105	53 - 127	5	16
4-Chloro-3-methylphenol			50.0	46.9		ug/L		94	22 - 147	4	16
4-Chlorophenyl phenyl ether			50.0	60.1		ug/L		120	25 - 158	7	15
4-Nitrophenol			100	52.0		ug/L		52	1 - 132	9	24
Acenaphthene			50.0	45.7		ug/L		91	47 - 145	4	25
Acenaphthylene			50.0	45.6		ug/L		91	33 - 145	3	22
Anthracene			50.0	50.2		ug/L		100	27 - 133	3	15
Benzidine			100	80.7		ug/L		81	1 - 120	5	50
Benzo[a]anthracene			50.0	51.3		ug/L		103	33 - 143	9	15
Benzo[a]pyrene			50.0	56.1		ug/L		112	17 - 163	7	15
Benzo[b]fluoranthene			50.0	52.2		ug/L		104	24 - 159	2	17
Benzo[g,h,i]perylene			50.0	55.4		ug/L		111	1 - 219	6	19
Benzo[k]fluoranthene			50.0	55.6		ug/L		111	11 - 162	4	19
Bis(2-chloroethoxy)methane			50.0	44.0		ug/L		88	33 - 184	3	23
Bis(2-chloroethyl)ether			50.0	39.9		ug/L		80	12 - 158	6	33
Bis(2-ethylhexyl) phthalate			50.0	43.9		ug/L		88	8 - 158	10	15
Butyl benzyl phthalate			50.0	40.9		ug/L		82	1 - 152	3	15
Chrysene			50.0	52.4		ug/L		105	17 - 168	8	15
Di-n-butyl phthalate			50.0	47.3		ug/L		95	1 - 120	2	15
Di-n-octyl phthalate			50.0	42.4		ug/L		85	4 - 146	7	15
Dibenz(a,h)anthracene			50.0	56.4		ug/L		113	1 - 227	5	18
Diethyl phthalate			50.0	49.4		ug/L		99	1 - 120	3	15
Dimethyl phthalate			50.0	48.6		ug/L		97	1 - 120	4	15
Fluoranthene			50.0	48.7		ug/L		97	26 - 137	2	15
Fluorene			50.0	48.6		ug/L		97	59 - 121	3	18
Hexachlorobenzene			50.0	45.7		ug/L		91	1 - 152	0	15
Hexachlorocyclopentadiene			50.0	41.4		ug/L		83	5 - 120	6	50
Hexachloroethane			50.0	28.9		ug/L		58	40 - 120	6	43
Indeno[1,2,3-cd]pyrene			50.0	55.4		ug/L		111	1 - 171	4	17
Isophorone			50.0	47.6		ug/L		95	21 - 196	5	21
N-Nitrosodi-n-propylamine			50.0	40.7		ug/L		81	1 - 230	0	23
N-Nitrosodiphenylamine			50.0	44.6		ug/L		89	54 - 125	5	15

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-641734/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 642023
Prep Batch: 641734

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			50.0	40.0		ug/L		80	21 - 133	5	31
Nitrobenzene			50.0	44.4		ug/L		89	35 - 180	8	27
Pentachlorophenol			100	82.0		ug/L		82	14 - 176	2	21
Phenanthrene			50.0	48.3		ug/L		97	54 - 120	3	16
Phenol			50.0	17.4		ug/L		35	5 - 120	8	36
Pyrene			50.0	47.1		ug/L		94	52 - 120	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol	*49*		*17 - 120*
Nitrobenzene-d5	*85*		*15 - 314*
p-Terphenyl-d14	*101*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-640723/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 640997
Prep Batch: 640723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		09/09/22 08:58	09/09/22 16:15	1

Lab Sample ID: LCS 480-640723/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 640997
Prep Batch: 640723

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc			0.200	0.199		mg/L		99	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-640838/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 640908
Prep Batch: 640838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		09/09/22 12:29	09/09/22 16:16	1

Lab Sample ID: LCS 480-640838/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 640908
Prep Batch: 640838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00667	0.00683		mg/L		102	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-641013/1-A
Matrix: Water
Analysis Batch: 641038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 641013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		09/12/22 10:44	09/12/22 12:17	1

Lab Sample ID: LCS 480-641013/2-A
Matrix: Water
Analysis Batch: 641038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.414		mg/L		104	90 - 110

Lab Sample ID: LCS 480-641013/3-A
Matrix: Water
Analysis Batch: 641038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 641013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: 480-201354-6 MS
Matrix: Water
Analysis Batch: 641038

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 641013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.11		0.00500	0.114	4	mg/L		180	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-640959/1
Matrix: Water
Analysis Batch: 640959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

GC/MS VOA

Analysis Batch: 640690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-5	TRIP BLANK	Total/NA	Water	624.1	
480-201354-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-640690/8	Method Blank	Total/NA	Water	624.1	
LCS 480-640690/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 641164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	625	
MB 480-641164/1-A	Method Blank	Total/NA	Water	625	
LCS 480-641164/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-641164/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 641316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	625.1	641164
MB 480-641164/1-A	Method Blank	Total/NA	Water	625.1	641164
LCS 480-641164/2-A	Lab Control Sample	Total/NA	Water	625.1	641164
LCSD 480-641164/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	641164

Prep Batch: 641734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6 - RE	001 LAB COMP	Total/NA	Water	625	
MB 480-641734/1-A	Method Blank	Total/NA	Water	625	
LCS 480-641734/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-641734/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 642023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6 - RE	001 LAB COMP	Total/NA	Water	625.1	641734
MB 480-641734/1-A	Method Blank	Total/NA	Water	625.1	641734
LCS 480-641734/2-A	Lab Control Sample	Total/NA	Water	625.1	641734
LCSD 480-641734/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	641734

Metals

Prep Batch: 640723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-640723/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-640723/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 640838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-640838/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-640838/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 640908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	245.1	640838

Metals (Continued)

Analysis Batch: 640908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-640838/1-A	Method Blank	Total/NA	Water	245.1	640838
LCS 480-640838/2-A	Lab Control Sample	Total/NA	Water	245.1	640838

Analysis Batch: 640997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	640723
MB 480-640723/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	640723
LCS 480-640723/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	640723

General Chemistry

Analysis Batch: 640959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-640959/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 641013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	Distill/CN	
MB 480-641013/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-641013/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-641013/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-201354-6 MS	001 LAB COMP	Total/NA	Water	Distill/CN	

Analysis Batch: 641038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201354-6	001 LAB COMP	Total/NA	Water	335.4	641013
MB 480-641013/1-A	Method Blank	Total/NA	Water	335.4	641013
LCS 480-641013/2-A	Lab Control Sample	Total/NA	Water	335.4	641013
LCS 480-641013/3-A	Lab Control Sample	Total/NA	Water	335.4	641013
480-201354-6 MS	001 LAB COMP	Total/NA	Water	335.4	641013

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-201354-5
Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	640690	ATG	EET BUF	09/08/22 18:25

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-201354-6
Date Collected: 09/07/22 00:00
Matrix: Water
Date Received: 09/07/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	640690	ATG	EET BUF	09/08/22 18:49
Total/NA	Prep	625			641164	JMP	EET BUF	09/13/22 09:30
Total/NA	Analysis	625.1		1	641316	JMM	EET BUF	09/14/22 16:18
Total/NA	Prep	625	RE		641734	JMP	EET BUF	09/16/22 10:34
Total/NA	Analysis	625.1	RE	1	642023	JMM	EET BUF	09/20/22 17:34
Total/NA	Prep	200.7			640723	NVK	EET BUF	09/09/22 08:58
Total/NA	Analysis	200.7 Rev 4.4		1	640997	LMH	EET BUF	09/09/22 18:09
Total/NA	Prep	245.1			640838	VAK	EET BUF	09/09/22 12:29
Total/NA	Analysis	245.1		1	640908	NVK	EET BUF	09/09/22 16:32
Total/NA	Prep	Distill/CN			641013	HJH	EET BUF	09/12/22 10:44
Total/NA	Analysis	335.4		1	641038	HJH	EET BUF	09/12/22 12:52
Total/NA	Analysis	SM 4500 H+ B		1	640959	ARR	EET BUF	09/12/22 08:18

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	MCAWW	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	40CFR136A	EET BUF
Distill/CN	Distillation, Cyanide	None	EET BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-201354-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-201354-5	TRIP BLANK	Water	09/07/22 00:00	09/07/22 14:00
480-201354-6	001 LAB COMP	Water	09/07/22 00:00	09/07/22 14:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171461-34075.1
Client Contact: Jason Gutkowski	Phone: 315 4363605	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30125855			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	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, Y - Trizma, 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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	B	N	N	N	N	X	
001-1		0650	G	Water			X	X	X	X	X			Lab TO
001-2		0850	G	Water			X	X	X	X	X			Composite
001-3		1050	G	↓			X	X	X	X	X			Samples
001-4		1250	G				X	X	X	X	X			
TripBlank	—	—	—	↓								X		Short Hold Time



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Sam Gotti	9/7/22 1310	Arcadis	[illegible]	9/7/22 1400	TA
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.:	Cooler Temperature(s) °C and Other Remarks:	0 3.3 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-201354-1

Login Number: 201354
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	3.3 #1 ICE
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Ms. Leslie Sedita
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Date: December 28, 2022
Our Ref: 30125855
Subject: **Discharge Monitoring Report – Fourth Quarter 2022**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Sedita,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this fourth quarter 2022 Discharge Monitoring Report (DMR) for the above-referenced site, which covers the period October 1 through December 31, 2022. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 97,905 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 9/28/2022 to 12/27/2022). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the fourth quarter 2022.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the October, November, and December monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. A pH result of 12.5 SU from a discharge sample collected on October 3, 2022, was initially reported by the laboratory. However, the laboratory was able to determine that this data was incorrect and the result of laboratory compromise of the sample. The laboratory concluded that the initial reported result was not representative of the sample as collected. A copy of the investigation report from Eurofins is provided in **Attachment E**. An additional sample was collected on October 18, 2022, with a pH result below the Daily Maximum Limit and consistent with historical results. BSA Permit Specific Conditions require reporting of

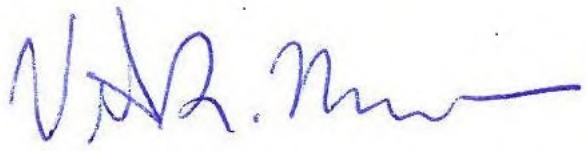
any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In October, November, and December 2022, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

On December 14, 2022, Arcadis replaced the flowmeter to comply with the requirement to have the treatment flowmeter certified every year. The certification for the new flowmeter can be found in **Attachment F**.

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:



Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

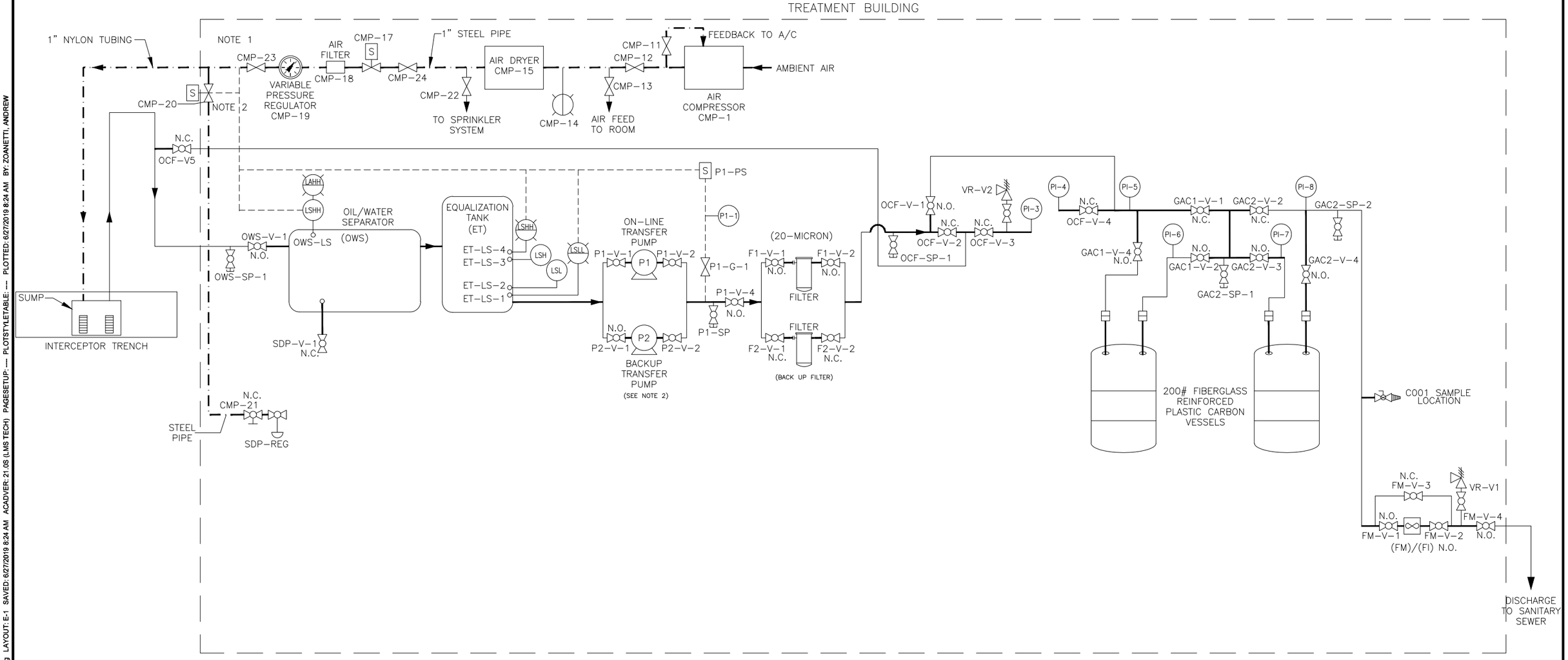
CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Michael J. Hecker, Hodgson Russ LLP
Katie Hoelscher, NFG

Attachments:

- A Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages
- E Laboratory Investigation Report
- F New Flowmeter Certification

Attachment A

Process Flow Diagram



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	10/3/22	→	→	→	JTG
Sample Time	0557	0757	0957	1157	JTG
Sample Observations	Clear	→	→	→	JTG
pH Measurement	N/A	→	→	→	JTG
Weather	Clear 37°F	Sunny 38°F	Sunny 46°F	Sunny 61°F	JTG
Comments	None	→	→	→	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski 10/3/22

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	10/18/22	→	→	→	JTG
Sample Time	0608	0808	1008	1205	
Sample Observations	Clear	Clear	Clear	Clear	
pH Measurement	N/A	→	→	→	
Weather	44°F Cloudy	43°F Cloudy	45°F Cloudy	46°F Mostly Cloudy	
Comments	None	None	None	None	

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski / Don Reed — Sample Technician

10/18/22 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	11/1/22	→	→	→	JT6
Sample Time	0610	0810	1010	1210	↓
Sample Observations	Clear	→	→	→	↓
pH Measurement	N/A	→	→	→	↓
Weather	57°F Overcast	56°F Overcast	57°F Overcast	56°F Light Rain	↓
Comments	None	→	→	→	↓

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutnowski — Sample Technician

11/1/22 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroqois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	12/8/2022	→	→	→	DR
Sample Time	0810	1010	1210	1411	↓
Sample Observations	CLEAR	CLEAR	CLEAR	CLEAR	↓
pH Measurement	N/A	→	→	→	↓
Weather	41°F OVERCAST	41°F OVERCAST	41°F OVERCAST	43°F OVERCAST	↓
Comments	NONE	NONE	NONE	NONE	↓

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

DON REED — Sample Technician

12/8/2022 — Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	9/28/2022	10/3/2022	10/10/2022	10/17/2022	10/26/2022	11/1/2022	11/8/2022
Totalizer	gal	NA	1,052,126	1,058,604	1,069,363	1,077,412	1,087,750	1,094,100	1,101,544
Total Mercury	lbs	0.00001**	NS	ND	NS	ND	NS	6.3E-06 B	NS
Total Zinc	lbs	3.0**	NS	ND	NS	1.13E-.04 J B	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	1.07E-03	NS	1.41E-03 B ^2	NS	8.81E-04 ^2 B	NS
Total VOCs	mg/L	NA	NS	ND	NS	ND	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND *1	NS	ND *1	NS	ND	NS
pH	SU	5.0-12.0	NS	12.5 HF	NS	7.2 HF	NS	7.3 HF	NS
Total Daily Flow	gal	14,400	-	1,296	1,537	1,150	1,149	1,058	1,063

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	11/14/2022	11/21/2022	12/2/2022	12/8/2022	12/14/2022	12/19/2022	12/27/2022
Totalizer	gal	NA	1,108,187	1,116,183	1,123,416	1,130,005	1,136,397	1,141,384	1,150,031
Total Mercury	lbs	0.00001**	NS	NS	NS	ND	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	1.37E-03 B	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	7.8 HF	NS	NS	NS
Total Daily Flow	gal	14,400	1,107	1,142	658	1,098	1,065	997	1,081

Notes:

B - Compound was found in the blank and the sample.
^2- Calibration Blank is outside acceptance limits.
HF - Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*1 - LCS/LCSD RPD exceeds control limits.
NA - Not Applicable
ND - Not Detected at the reporting limit
NM - Not Measured
NS - Not Sampled
gal - Gallons
lbs - Pounds
mg/L - Milligrams per liter
SU - Standard Units
** - Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-202251-1
Client Project/Site: Iroquois Gas/Westwood Pharm.Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
10/12/2022 1:38:43 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com

Designee for

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

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
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

Job ID: 480-202251-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-202251-1

Comments
No additional comments.

Receipt
The samples were received on 10/3/2022 12:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.0º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 10/5 as requested by the client: 001 LAB COMP (480-202251-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The method blank (MB) and laboratory control sample duplicate (LCSD) for preparation batch 480-644075 and analytical batch 480-644201 recovered outside control limits for the following surrogate: p-Terphenyl-d14. Surrogate recovery was acceptable in the following associated samples: 001 LAB COMP (480-202251-6). Therefore, the data has been reported.

001 LAB COMP (480-202251-6)

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-644075 and analytical batch 480-644201 recovered outside control limits for the following analytes: 2,4-Dinitrotoluene, 4-Chlorophenyl phenyl ether, 4-Nitrophenol, Diethyl phthalate and Fluorene.

Method 625.1: The continuing calibration verification (CCV) associated with batch 480-644201 recovered above the upper control limit for Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 001 LAB COMP (480-202251-6).

Method 625.1: Surrogate recovery for the following sample was outside the upper control limit: 001 LAB COMP (480-202251-6). 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.

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

General Chemistry
Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-202251-6).

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

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-644075.

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
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-202251-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.099		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	12.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-202251-5
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/22 13:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/22 13:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/22 13:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/22 13:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/22 13:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/22 13:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/22 13:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/22 13:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/22 13:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/22 13:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/22 13:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/22 13:45	1
Acrolein	ND		100	17	ug/L			10/05/22 13:45	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/22 13:45	1
Benzene	ND		5.0	0.60	ug/L			10/05/22 13:45	1
Bromoform	ND		5.0	0.47	ug/L			10/05/22 13:45	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/22 13:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/22 13:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/22 13:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/22 13:45	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/22 13:45	1
Chloroform	ND		5.0	0.54	ug/L			10/05/22 13:45	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/22 13:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/22 13:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/22 13:45	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/22 13:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/22 13:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/22 13:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/22 13:45	1
Toluene	ND		5.0	0.45	ug/L			10/05/22 13:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/22 13:45	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/22 13:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/22 13:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*68 - 130*		*10/05/22 13:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*10/05/22 13:45*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*10/05/22 13:45*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*10/05/22 13:45*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/22 14:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/22 14:09	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/22 14:09	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/22 14:09	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/22 14:09	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/22 14:09	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/22 14:09	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/22 14:09	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/22 14:09	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/22 14:09	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/22 14:09	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/22 14:09	1
Acrolein	ND		100	17	ug/L			10/05/22 14:09	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/22 14:09	1
Benzene	ND		5.0	0.60	ug/L			10/05/22 14:09	1
Bromoform	ND		5.0	0.47	ug/L			10/05/22 14:09	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/22 14:09	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/22 14:09	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/22 14:09	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/22 14:09	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/22 14:09	1
Chloroform	ND		5.0	0.54	ug/L			10/05/22 14:09	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/22 14:09	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/22 14:09	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/22 14:09	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/22 14:09	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/22 14:09	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/22 14:09	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/22 14:09	1
Toluene	ND		5.0	0.45	ug/L			10/05/22 14:09	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/22 14:09	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/22 14:09	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/22 14:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/22 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*68 - 130*		*10/05/22 14:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*10/05/22 14:09*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*10/05/22 14:09*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/05/22 14:09*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		10/05/22 09:39	10/06/22 16:19	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		10/05/22 09:39	10/06/22 16:19	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		10/05/22 09:39	10/06/22 16:19	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		10/05/22 09:39	10/06/22 16:19	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		10/05/22 09:39	10/06/22 16:19	1

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	*1	9.5	0.38	ug/L		10/05/22 09:39	10/06/22 16:19	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		10/05/22 09:39	10/06/22 16:19	1
2-Chlorophenol	ND		4.8	0.16	ug/L		10/05/22 09:39	10/06/22 16:19	1
2-Nitrophenol	ND		4.8	0.17	ug/L		10/05/22 09:39	10/06/22 16:19	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		10/05/22 09:39	10/06/22 16:19	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		10/05/22 09:39	10/06/22 16:19	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		10/05/22 09:39	10/06/22 16:19	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		10/05/22 09:39	10/06/22 16:19	1
4-Chlorophenyl phenyl ether	ND	*1	4.8	0.31	ug/L		10/05/22 09:39	10/06/22 16:19	1
4-Nitrophenol	ND	*1	14	0.46	ug/L		10/05/22 09:39	10/06/22 16:19	1
Acenaphthene	ND		4.8	0.19	ug/L		10/05/22 09:39	10/06/22 16:19	1
Acenaphthylene	ND		4.8	0.21	ug/L		10/05/22 09:39	10/06/22 16:19	1
Anthracene	ND		4.8	0.33	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzidine	ND		76	13	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		10/05/22 09:39	10/06/22 16:19	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		10/05/22 09:39	10/06/22 16:19	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		10/05/22 09:39	10/06/22 16:19	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		10/05/22 09:39	10/06/22 16:19	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		10/05/22 09:39	10/06/22 16:19	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		10/05/22 09:39	10/06/22 16:19	1
Chrysene	ND		4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
Decane	ND		9.5	0.38	ug/L		10/05/22 09:39	10/06/22 16:19	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		10/05/22 09:39	10/06/22 16:19	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		10/05/22 09:39	10/06/22 16:19	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		10/05/22 09:39	10/06/22 16:19	1
Diethyl phthalate	ND	*1	4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		10/05/22 09:39	10/06/22 16:19	1
Fluoranthene	ND		4.8	0.38	ug/L		10/05/22 09:39	10/06/22 16:19	1
Fluorene	ND	*1	4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		10/05/22 09:39	10/06/22 16:19	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		10/05/22 09:39	10/06/22 16:19	1
Hexachloroethane	ND		4.8	0.14	ug/L		10/05/22 09:39	10/06/22 16:19	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		10/05/22 09:39	10/06/22 16:19	1
Isophorone	ND		4.8	0.18	ug/L		10/05/22 09:39	10/06/22 16:19	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		10/05/22 09:39	10/06/22 16:19	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		10/05/22 09:39	10/06/22 16:19	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		10/05/22 09:39	10/06/22 16:19	1
Naphthalene	ND		4.8	0.20	ug/L		10/05/22 09:39	10/06/22 16:19	1
Nitrobenzene	ND		4.8	0.19	ug/L		10/05/22 09:39	10/06/22 16:19	1
Pentachlorophenol	ND		9.5	0.75	ug/L		10/05/22 09:39	10/06/22 16:19	1
Phenanthrene	ND		4.8	0.29	ug/L		10/05/22 09:39	10/06/22 16:19	1
Phenol	ND		4.8	0.083	ug/L		10/05/22 09:39	10/06/22 16:19	1
Pyrene	ND		4.8	0.33	ug/L		10/05/22 09:39	10/06/22 16:19	1
n-Octadecane	ND		9.5	0.29	ug/L		10/05/22 09:39	10/06/22 16:19	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6

Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*122*		*52 - 151*	*10/05/22 09:39*	*10/06/22 16:19*	*1*
2-Fluorobiphenyl	*123*	*S1+*	*44 - 120*	*10/05/22 09:39*	*10/06/22 16:19*	*1*
2-Fluorophenol	*60*		*17 - 120*	*10/05/22 09:39*	*10/06/22 16:19*	*1*
Nitrobenzene-d5	*118*		*15 - 314*	*10/05/22 09:39*	*10/06/22 16:19*	*1*
p-Terphenyl-d14	*132*	*S1+*	*22 - 125*	*10/05/22 09:39*	*10/06/22 16:19*	*1*
Phenol-d5	*42*		*8 - 424*	*10/05/22 09:39*	*10/06/22 16:19*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		10/04/22 08:58	10/04/22 20:25	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		10/04/22 11:08	10/04/22 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (MCAWW 335.4)	**0.099**		0.010	0.0041	mg/L			10/09/22 13:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**12.5**	**HF**	0.1	0.1	SU			10/11/22 09:54	1
Temperature (SM 4500 H+ B)	**20.8**	**HF**	0.001	0.001	Degrees C			10/11/22 09:54	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-202251-5	TRIP BLANK	115	100	98	105
480-202251-6	001 LAB COMP	113	102	98	106
LCS 480-644029/6	Lab Control Sample	110	103	101	107
MB 480-644029/8	Method Blank	114	101	98	110

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-202251-6	001 LAB COMP	122	123 S1+	60	118	132 S1+	42
LCS 480-644075/2-A	Lab Control Sample	119	110	50	103	125	39
LCSD 480-644075/3-A	Lab Control Sample Dup	129	116	54	98	126 S1+	37
MB 480-644075/1-A	Method Blank	110	111	63	120	139 S1+	42

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-644029/8
Matrix: Water
Analysis Batch: 644029

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/22 12:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/05/22 12:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/22 12:40	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/22 12:40	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/05/22 12:40	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/05/22 12:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/22 12:40	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/22 12:40	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/05/22 12:40	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/05/22 12:40	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/05/22 12:40	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/05/22 12:40	1
Acrolein	ND		100	17	ug/L			10/05/22 12:40	1
Acrylonitrile	ND		50	1.9	ug/L			10/05/22 12:40	1
Benzene	ND		5.0	0.60	ug/L			10/05/22 12:40	1
Bromoform	ND		5.0	0.47	ug/L			10/05/22 12:40	1
Bromomethane	ND		5.0	1.2	ug/L			10/05/22 12:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/22 12:40	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/05/22 12:40	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/05/22 12:40	1
Chloroethane	ND		5.0	0.87	ug/L			10/05/22 12:40	1
Chloroform	ND		5.0	0.54	ug/L			10/05/22 12:40	1
Chloromethane	ND		5.0	0.64	ug/L			10/05/22 12:40	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/05/22 12:40	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/05/22 12:40	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/05/22 12:40	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/05/22 12:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/22 12:40	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/05/22 12:40	1
Toluene	ND		5.0	0.45	ug/L			10/05/22 12:40	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/05/22 12:40	1
Trichloroethene	ND		5.0	0.60	ug/L			10/05/22 12:40	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/05/22 12:40	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/05/22 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*68 - 130*		*10/05/22 12:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*10/05/22 12:40*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*10/05/22 12:40*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/05/22 12:40*	*1*

Lab Sample ID: LCS 480-644029/6
Matrix: Water
Analysis Batch: 644029

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	22.6		ug/L		113	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-644029/6
Matrix: Water
Analysis Batch: 644029

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	52 - 150
1,1-Dichloroethane	20.0	19.9		ug/L		99	59 - 155
1,1-Dichloroethene	20.0	20.5		ug/L		102	1 - 234
1,2-Dichlorobenzene	20.0	18.5		ug/L		92	18 - 190
1,2-Dichloroethane	20.0	23.0		ug/L		115	49 - 155
1,2-Dichloropropane	20.0	18.0		ug/L		90	1 - 210
1,3-Dichlorobenzene	20.0	18.7		ug/L		93	59 - 156
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	18 - 190
2-Chloroethyl vinyl ether	20.0	17.1	J	ug/L		85	1 - 305
Benzene	20.0	19.5		ug/L		98	37 - 151
Bromoform	20.0	19.9		ug/L		100	45 - 169
Bromomethane	20.0	23.6		ug/L		118	1 - 242
Carbon tetrachloride	20.0	21.2		ug/L		106	70 - 140
Chlorobenzene	20.0	18.6		ug/L		93	37 - 160
Dibromochloromethane	20.0	20.7		ug/L		103	53 - 149
Chloroethane	20.0	24.7		ug/L		124	14 - 230
Chloroform	20.0	21.0		ug/L		105	51 - 138
Chloromethane	20.0	25.5		ug/L		127	1 - 273
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	1 - 227
Bromodichloromethane	20.0	21.0		ug/L		105	35 - 155
Ethylbenzene	20.0	19.3		ug/L		97	37 - 162
Methylene Chloride	20.0	20.0		ug/L		100	1 - 221
Tetrachloroethene	20.0	18.8		ug/L		94	64 - 148
Toluene	20.0	18.8		ug/L		94	47 - 150
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	17 - 183
Trichloroethene	20.0	20.4		ug/L		102	71 - 157
Trichlorofluoromethane	20.0	24.6		ug/L		123	17 - 181
Vinyl chloride	20.0	22.3		ug/L		112	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*68 - 130*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-644075/1-A
Matrix: Water
Analysis Batch: 644201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		10/05/22 09:39	10/06/22 15:05	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		10/05/22 09:39	10/06/22 15:05	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		10/05/22 09:39	10/06/22 15:05	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		10/05/22 09:39	10/06/22 15:05	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-644075/1-A
Matrix: Water
Analysis Batch: 644201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		10/05/22 09:39	10/06/22 15:05	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		10/05/22 09:39	10/06/22 15:05	1
2-Chlorophenol	ND		5.0	0.17	ug/L		10/05/22 09:39	10/06/22 15:05	1
2-Nitrophenol	ND		5.0	0.18	ug/L		10/05/22 09:39	10/06/22 15:05	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/05/22 09:39	10/06/22 15:05	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		10/05/22 09:39	10/06/22 15:05	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		10/05/22 09:39	10/06/22 15:05	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		10/05/22 09:39	10/06/22 15:05	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		10/05/22 09:39	10/06/22 15:05	1
4-Nitrophenol	ND		15	0.49	ug/L		10/05/22 09:39	10/06/22 15:05	1
Acenaphthene	ND		5.0	0.20	ug/L		10/05/22 09:39	10/06/22 15:05	1
Acenaphthylene	ND		5.0	0.22	ug/L		10/05/22 09:39	10/06/22 15:05	1
Anthracene	ND		5.0	0.35	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzidine	ND		80	14	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		10/05/22 09:39	10/06/22 15:05	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		10/05/22 09:39	10/06/22 15:05	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		10/05/22 09:39	10/06/22 15:05	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		10/05/22 09:39	10/06/22 15:05	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		10/05/22 09:39	10/06/22 15:05	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		10/05/22 09:39	10/06/22 15:05	1
Chrysene	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
Decane	ND		10	0.40	ug/L		10/05/22 09:39	10/06/22 15:05	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		10/05/22 09:39	10/06/22 15:05	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		10/05/22 09:39	10/06/22 15:05	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		10/05/22 09:39	10/06/22 15:05	1
Diethyl phthalate	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		10/05/22 09:39	10/06/22 15:05	1
Fluoranthene	ND		5.0	0.40	ug/L		10/05/22 09:39	10/06/22 15:05	1
Fluorene	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		10/05/22 09:39	10/06/22 15:05	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		10/05/22 09:39	10/06/22 15:05	1
Hexachloroethane	ND		5.0	0.15	ug/L		10/05/22 09:39	10/06/22 15:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		10/05/22 09:39	10/06/22 15:05	1
Isophorone	ND		5.0	0.19	ug/L		10/05/22 09:39	10/06/22 15:05	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		10/05/22 09:39	10/06/22 15:05	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		10/05/22 09:39	10/06/22 15:05	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		10/05/22 09:39	10/06/22 15:05	1
Naphthalene	ND		5.0	0.22	ug/L		10/05/22 09:39	10/06/22 15:05	1
Nitrobenzene	ND		5.0	0.20	ug/L		10/05/22 09:39	10/06/22 15:05	1
Pentachlorophenol	ND		10	0.79	ug/L		10/05/22 09:39	10/06/22 15:05	1
Phenanthrene	ND		5.0	0.30	ug/L		10/05/22 09:39	10/06/22 15:05	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-644075/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 644201
Prep Batch: 644075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		10/05/22 09:39	10/06/22 15:05	1
Pyrene	ND		5.0	0.35	ug/L		10/05/22 09:39	10/06/22 15:05	1
n-Octadecane	ND		10	0.30	ug/L		10/05/22 09:39	10/06/22 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*110*		*52 - 151*	*10/05/22 09:39*	*10/06/22 15:05*	*1*
2-Fluorobiphenyl	*111*		*44 - 120*	*10/05/22 09:39*	*10/06/22 15:05*	*1*
2-Fluorophenol	*63*		*17 - 120*	*10/05/22 09:39*	*10/06/22 15:05*	*1*
Nitrobenzene-d5	*120*		*15 - 314*	*10/05/22 09:39*	*10/06/22 15:05*	*1*
p-Terphenyl-d14	*139*	*S1+*	*22 - 125*	*10/05/22 09:39*	*10/06/22 15:05*	*1*
Phenol-d5	*42*		*8 - 424*	*10/05/22 09:39*	*10/06/22 15:05*	*1*

Lab Sample ID: LCS 480-644075/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 644201
Prep Batch: 644075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	39.5		ug/L		79	44 - 142
1,2-Dichlorobenzene	50.0	31.9		ug/L		64	32 - 129
1,3-Dichlorobenzene	50.0	28.4		ug/L		57	1 - 172
1,4-Dichlorobenzene	50.0	29.2		ug/L		58	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	41.1		ug/L		82	36 - 166
2,4,6-Trichlorophenol	50.0	52.6		ug/L		105	37 - 144
2,4-Dichlorophenol	50.0	50.8		ug/L		102	39 - 135
2,4-Dimethylphenol	50.0	46.1		ug/L		92	32 - 120
2,4-Dinitrophenol	100	116		ug/L		116	1 - 191
2,4-Dinitrotoluene	50.0	57.0		ug/L		114	39 - 139
2,6-Dinitrotoluene	50.0	47.3		ug/L		95	50 - 158
2-Chloronaphthalene	50.0	43.4		ug/L		87	60 - 120
2-Chlorophenol	50.0	34.5		ug/L		69	23 - 134
2-Nitrophenol	50.0	42.2		ug/L		84	29 - 182
3,3'-Dichlorobenzidine	100	95.2		ug/L		95	1 - 262
4,6-Dinitro-2-methylphenol	100	110		ug/L		110	1 - 181
4-Bromophenyl phenyl ether	50.0	55.0		ug/L		110	53 - 127
4-Chloro-3-methylphenol	50.0	44.0		ug/L		88	22 - 147
4-Chlorophenyl phenyl ether	50.0	68.3		ug/L		137	25 - 158
4-Nitrophenol	100	55.6		ug/L		56	1 - 132
Acenaphthene	50.0	44.2		ug/L		88	47 - 145
Acenaphthylene	50.0	45.8		ug/L		92	33 - 145
Anthracene	50.0	51.6		ug/L		103	27 - 133
Benzidine	100	83.8		ug/L		84	1 - 120
Benzo[a]anthracene	50.0	52.5		ug/L		105	33 - 143
Benzo[a]pyrene	50.0	56.1		ug/L		112	17 - 163
Benzo[b]fluoranthene	50.0	55.5		ug/L		111	24 - 159
Benzo[g,h,i]perylene	50.0	55.3		ug/L		111	1 - 219
Benzo[k]fluoranthene	50.0	55.5		ug/L		111	11 - 162
Bis(2-chloroethoxy)methane	50.0	42.3		ug/L		85	33 - 184
Bis(2-chloroethyl)ether	50.0	37.3		ug/L		75	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-644075/2-A
Matrix: Water
Analysis Batch: 644201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	42.2		ug/L		84	8 - 158
Butyl benzyl phthalate	50.0	41.8		ug/L		84	1 - 152
Chrysene	50.0	53.3		ug/L		107	17 - 168
Di-n-butyl phthalate	50.0	46.4		ug/L		93	1 - 120
Di-n-octyl phthalate	50.0	37.5		ug/L		75	4 - 146
Dibenz(a,h)anthracene	50.0	59.6		ug/L		119	1 - 227
Diethyl phthalate	50.0	56.4		ug/L		113	1 - 120
Dimethyl phthalate	50.0	49.1		ug/L		98	1 - 120
Fluoranthene	50.0	49.3		ug/L		99	26 - 137
Fluorene	50.0	54.3		ug/L		109	59 - 121
Hexachlorobenzene	50.0	48.2		ug/L		96	1 - 152
Hexachlorocyclopentadiene	50.0	29.1		ug/L		58	5 - 120
Hexachloroethane	50.0	22.3		ug/L		45	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	56.7		ug/L		113	1 - 171
Isophorone	50.0	45.4		ug/L		91	21 - 196
N-Nitrosodi-n-propylamine	50.0	35.6		ug/L		71	1 - 230
N-Nitrosodiphenylamine	50.0	47.7		ug/L		95	54 - 125
Naphthalene	50.0	41.2		ug/L		82	21 - 133
Nitrobenzene	50.0	42.9		ug/L		86	35 - 180
Pentachlorophenol	100	87.8		ug/L		88	14 - 176
Phenanthrene	50.0	51.1		ug/L		102	54 - 120
Phenol	50.0	15.8		ug/L		32	5 - 120
Pyrene	50.0	49.1		ug/L		98	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*119*		*52 - 151*
2-Fluorobiphenyl	*110*		*44 - 120*
2-Fluorophenol	*50*		*17 - 120*
Nitrobenzene-d5	*103*		*15 - 314*
p-Terphenyl-d14	*125*		*22 - 125*
Phenol-d5	*39*		*8 - 424*

Lab Sample ID: LCSD 480-644075/3-A
Matrix: Water
Analysis Batch: 644201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 644075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	44 - 142	17	34
1,2-Dichlorobenzene	50.0	32.1		ug/L		64	32 - 129	1	38
1,3-Dichlorobenzene	50.0	28.2		ug/L		56	1 - 172	1	37
1,4-Dichlorobenzene	50.0	31.2		ug/L		62	20 - 124	7	40
2,2'-Oxybis(1-chloropropane)	50.0	40.4		ug/L		81	36 - 166	2	36
2,4,6-Trichlorophenol	50.0	54.6		ug/L		109	37 - 144	4	20
2,4-Dichlorophenol	50.0	51.4		ug/L		103	39 - 135	1	23
2,4-Dimethylphenol	50.0	47.2		ug/L		94	32 - 120	2	18
2,4-Dinitrophenol	100	112		ug/L		112	1 - 191	4	29
2,4-Dinitrotoluene	50.0	42.6	*1	ug/L		85	39 - 139	29	20
2,6-Dinitrotoluene	50.0	47.5		ug/L		95	50 - 158	0	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-644075/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 644201
Prep Batch: 644075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	50.0	46.4		ug/L		93	60 - 120	7	30
2-Chlorophenol	50.0	33.4		ug/L		67	23 - 134	3	26
2-Nitrophenol	50.0	47.4		ug/L		95	29 - 182	12	28
3,3'-Dichlorobenzidine	100	99.4		ug/L		99	1 - 262	4	31
4,6-Dinitro-2-methylphenol	100	113		ug/L		113	1 - 181	2	30
4-Bromophenyl phenyl ether	50.0	59.9		ug/L		120	53 - 127	9	16
4-Chloro-3-methylphenol	50.0	44.4		ug/L		89	22 - 147	1	16
4-Chlorophenyl phenyl ether	50.0	51.2	*1	ug/L		102	25 - 158	29	15
4-Nitrophenol	100	38.9	*1	ug/L		39	1 - 132	35	24
Acenaphthene	50.0	46.9		ug/L		94	47 - 145	6	25
Acenaphthylene	50.0	47.9		ug/L		96	33 - 145	4	22
Anthracene	50.0	53.7		ug/L		107	27 - 133	4	15
Benzidine	100	91.6		ug/L		92	1 - 120	9	50
Benzo[a]anthracene	50.0	54.2		ug/L		108	33 - 143	3	15
Benzo[a]pyrene	50.0	59.3		ug/L		119	17 - 163	5	15
Benzo[b]fluoranthene	50.0	57.6		ug/L		115	24 - 159	4	17
Benzo[g,h,i]perylene	50.0	64.4		ug/L		129	1 - 219	15	19
Benzo[k]fluoranthene	50.0	60.9		ug/L		122	11 - 162	9	19
Bis(2-chloroethoxy)methane	50.0	47.2		ug/L		94	33 - 184	11	23
Bis(2-chloroethyl)ether	50.0	35.1		ug/L		70	12 - 158	6	33
Bis(2-ethylhexyl) phthalate	50.0	42.9		ug/L		86	8 - 158	2	15
Butyl benzyl phthalate	50.0	43.9		ug/L		88	1 - 152	5	15
Chrysene	50.0	55.2		ug/L		110	17 - 168	3	15
Di-n-butyl phthalate	50.0	47.6		ug/L		95	1 - 120	2	15
Di-n-octyl phthalate	50.0	43.4		ug/L		87	4 - 146	15	15
Dibenz(a,h)anthracene	50.0	66.3		ug/L		133	1 - 227	11	18
Diethyl phthalate	50.0	42.2	*1	ug/L		84	1 - 120	29	15
Dimethyl phthalate	50.0	49.5		ug/L		99	1 - 120	1	15
Fluoranthene	50.0	52.8		ug/L		106	26 - 137	7	15
Fluorene	50.0	41.6	*1	ug/L		83	59 - 121	26	18
Hexachlorobenzene	50.0	51.3		ug/L		103	1 - 152	6	15
Hexachlorocyclopentadiene	50.0	29.6		ug/L		59	5 - 120	2	50
Hexachloroethane	50.0	22.5		ug/L		45	40 - 120	1	43
Indeno[1,2,3-cd]pyrene	50.0	64.9		ug/L		130	1 - 171	13	17
Isophorone	50.0	48.7		ug/L		97	21 - 196	7	21
N-Nitrosodi-n-propylamine	50.0	36.3		ug/L		73	1 - 230	2	23
N-Nitrosodiphenylamine	50.0	48.7		ug/L		97	54 - 125	2	15
Naphthalene	50.0	43.1		ug/L		86	21 - 133	5	31
Nitrobenzene	50.0	40.2		ug/L		80	35 - 180	7	27
Pentachlorophenol	100	92.2		ug/L		92	14 - 176	5	21
Phenanthrene	50.0	53.0		ug/L		106	54 - 120	4	16
Phenol	50.0	14.4		ug/L		29	5 - 120	9	36
Pyrene	50.0	49.6		ug/L		99	52 - 120	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*129*		*52 - 151*
2-Fluorobiphenyl	*116*		*44 - 120*
2-Fluorophenol	*54*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-644075/3-A
Matrix: Water
Analysis Batch: 644201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 644075

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*98*		*15 - 314*
p-Terphenyl-d14	*126*	*S1+*	*22 - 125*
Phenol-d5	*37*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-643758/1-A
Matrix: Water
Analysis Batch: 644062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		10/04/22 08:58	10/04/22 18:53	1

Lab Sample ID: LCS 480-643758/2-A
Matrix: Water
Analysis Batch: 644062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.198		mg/L		99	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-643883/1-A
Matrix: Water
Analysis Batch: 643995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		10/04/22 11:08	10/04/22 16:06	1

Lab Sample ID: LCS 480-643883/2-A
Matrix: Water
Analysis Batch: 643995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00603		mg/L		90	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-644629/21
Matrix: Water
Analysis Batch: 644629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/09/22 12:36	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MB 480-644629/49
Matrix: Water
Analysis Batch: 644629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/09/22 13:51	1

Lab Sample ID: HLCS 480-644629/23
Matrix: Water
Analysis Batch: 644629

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

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.400		mg/L		100	90 - 110		

Lab Sample ID: LCS 480-644629/22
Matrix: Water
Analysis Batch: 644629

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

Lab Sample ID: LCS 480-644629/50
Matrix: Water
Analysis Batch: 644629

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.246		mg/L		98	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-644861/1
Matrix: Water
Analysis Batch: 644861

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-202251-6 DU
Matrix: Water
Analysis Batch: 644861

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	12.5	HF		12.6		SU				0.8	5
Temperature	20.8	HF		20.4		Degrees C				2	10

GC/MS VOA

Analysis Batch: 644029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-5	TRIP BLANK	Total/NA	Water	624.1	
480-202251-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-644029/8	Method Blank	Total/NA	Water	624.1	
LCS 480-644029/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 644075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	625	
MB 480-644075/1-A	Method Blank	Total/NA	Water	625	
LCS 480-644075/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-644075/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 644201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	625.1	644075
MB 480-644075/1-A	Method Blank	Total/NA	Water	625.1	644075
LCS 480-644075/2-A	Lab Control Sample	Total/NA	Water	625.1	644075
LCSD 480-644075/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	644075

Metals

Prep Batch: 643758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-643758/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-643758/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 643883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-643883/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-643883/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 643995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	245.1	643883
MB 480-643883/1-A	Method Blank	Total/NA	Water	245.1	643883
LCS 480-643883/2-A	Lab Control Sample	Total/NA	Water	245.1	643883

Analysis Batch: 644062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	643758
MB 480-643758/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	643758
LCS 480-643758/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	643758

General Chemistry

Analysis Batch: 644629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	335.4	

General Chemistry (Continued)

Analysis Batch: 644629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-644629/21	Method Blank	Total/NA	Water	335.4	
MB 480-644629/49	Method Blank	Total/NA	Water	335.4	
HLCS 480-644629/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-644629/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-644629/50	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 644861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202251-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-644861/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-202251-6 DU	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-202251-5
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	644029	ATG	EET BUF	10/05/22 13:45

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202251-6
Date Collected: 10/03/22 00:00
Matrix: Water
Date Received: 10/03/22 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	644029	ATG	EET BUF	10/05/22 14:09
Total/NA	Prep	625			644075	JMP	EET BUF	10/05/22 09:39
Total/NA	Analysis	625.1		1	644201	JMM	EET BUF	10/06/22 16:19
Total/NA	Prep	200.7			643758	VAK	EET BUF	10/04/22 08:58
Total/NA	Analysis	200.7 Rev 4.4		1	644062	LMH	EET BUF	10/04/22 20:25
Total/NA	Prep	245.1			643883	VAK	EET BUF	10/04/22 11:08
Total/NA	Analysis	245.1		1	643995	NVK	EET BUF	10/04/22 16:27
Total/NA	Analysis	335.4		1	644629	CLT	EET BUF	10/09/22 13:34
Total/NA	Analysis	SM 4500 H+ B		1	644861	ARR	EET BUF	10/11/22 09:54

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	MCAWW	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	40CFR136A	EET BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202251-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-202251-5	TRIP BLANK	Water	10/03/22 00:00	10/03/22 12:21
480-202251-6	001 LAB COMP	Water	10/03/22 00:00	10/03/22 12:21

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jason Gutkowski	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-171462-34075.1
Client Contact: Jason Gutkowski	Phone: 315 4363605	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9173(Tel) 315-446-8053(Fax)	PO #: Needed 30125855			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	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, Y - Trizma, 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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	B	N	N	N	N		
001-1	10/3/22	0557	6	Water			X	X	X	X	X			Lab TO
001-2		0757		Water			X	X	X	X	X			Composite
001-3		0957					X	X	X	X	X			Samples
001-4		1157					X	X	X	X	X			
Trip Blank	—	—	—									X		
														Short Hold Time

480-202251 Chain of Custody

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
	Dan Moss	10/3/22 1221	Arcadis	Unknown Client	10/3/22 1221	TA
	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.:

Cooler Temperature(s) °C and Other Remarks: 14/10 # 1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-202251-1

Login Number: 202251
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	14.0 #1 ICE
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-202872-1
Client Project/Site: Iroquois Gas/Westwood Pharm.Monthly

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Mr. Raymond Wagner

Authorized for release by:
11/4/2022 10:46:01 AM

Steve Hartmann, Project Manager
(413)572-4000
Steve.Hartmann@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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
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

Job ID: 480-202872-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-202872-1

Comments
No additional comments.

Receipt
The samples were received on 10/18/2022 1:32 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 10/19/2022 as requested by the client: 001 LAB COMP (480-202872-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-646514 and analytical batch 480-646782 recovered outside control limits for the following analytes: Benzidine.

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
Method 335.4: The continuing calibration blank (CCB) and method blank (MB) for analytical batch 480-648095 contained Cyanide, Total above the method detection limit (MDL). All reported samples associated with this CCB and MB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-202872-6).

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

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

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-202872-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202872-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0088	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Cyanide, Total	0.11	B ^2	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.9	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-202872-5

Date Collected: 10/18/22 00:00

Matrix: Water

Date Received: 10/18/22 13:32

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/19/22 15:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/19/22 15:16	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/19/22 15:16	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/19/22 15:16	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/19/22 15:16	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/19/22 15:16	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/19/22 15:16	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/19/22 15:16	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/19/22 15:16	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/19/22 15:16	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/19/22 15:16	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/19/22 15:16	1
Acrolein	ND		100	17	ug/L			10/19/22 15:16	1
Acrylonitrile	ND		50	1.9	ug/L			10/19/22 15:16	1
Benzene	ND		5.0	0.60	ug/L			10/19/22 15:16	1
Bromoform	ND		5.0	0.47	ug/L			10/19/22 15:16	1
Bromomethane	ND		5.0	1.2	ug/L			10/19/22 15:16	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/19/22 15:16	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/19/22 15:16	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/19/22 15:16	1
Chloroethane	ND		5.0	0.87	ug/L			10/19/22 15:16	1
Chloroform	ND		5.0	0.54	ug/L			10/19/22 15:16	1
Chloromethane	ND		5.0	0.64	ug/L			10/19/22 15:16	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/19/22 15:16	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/19/22 15:16	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/19/22 15:16	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/19/22 15:16	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/19/22 15:16	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/19/22 15:16	1
Toluene	ND		5.0	0.45	ug/L			10/19/22 15:16	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/19/22 15:16	1
Trichloroethene	ND		5.0	0.60	ug/L			10/19/22 15:16	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/19/22 15:16	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/19/22 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*68 - 130*		*10/19/22 15:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*10/19/22 15:16*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*10/19/22 15:16*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/19/22 15:16*	*1*

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-202872-6

Date Collected: 10/18/22 12:05

Matrix: Water

Date Received: 10/18/22 13:32

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/19/22 15:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/19/22 15:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/19/22 15:40	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202872-6
Date Collected: 10/18/22 12:05
Matrix: Water
Date Received: 10/18/22 13:32

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/19/22 15:40	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/19/22 15:40	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/19/22 15:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/19/22 15:40	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/19/22 15:40	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/19/22 15:40	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/19/22 15:40	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/19/22 15:40	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/19/22 15:40	1
Acrolein	ND		100	17	ug/L			10/19/22 15:40	1
Acrylonitrile	ND		50	1.9	ug/L			10/19/22 15:40	1
Benzene	ND		5.0	0.60	ug/L			10/19/22 15:40	1
Bromoform	ND		5.0	0.47	ug/L			10/19/22 15:40	1
Bromomethane	ND		5.0	1.2	ug/L			10/19/22 15:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/19/22 15:40	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/19/22 15:40	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/19/22 15:40	1
Chloroethane	ND		5.0	0.87	ug/L			10/19/22 15:40	1
Chloroform	ND		5.0	0.54	ug/L			10/19/22 15:40	1
Chloromethane	ND		5.0	0.64	ug/L			10/19/22 15:40	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/19/22 15:40	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/19/22 15:40	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/19/22 15:40	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/19/22 15:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/19/22 15:40	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/19/22 15:40	1
Toluene	ND		5.0	0.45	ug/L			10/19/22 15:40	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/19/22 15:40	1
Trichloroethene	ND		5.0	0.60	ug/L			10/19/22 15:40	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/19/22 15:40	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/19/22 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*68 - 130*		*10/19/22 15:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*10/19/22 15:40*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*10/19/22 15:40*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*10/19/22 15:40*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		10/21/22 09:18	10/24/22 15:49	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		10/21/22 09:18	10/24/22 15:49	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		10/21/22 09:18	10/24/22 15:49	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		10/21/22 09:18	10/24/22 15:49	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		10/21/22 09:18	10/24/22 15:49	1

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202872-6
Date Collected: 10/18/22 12:05
Matrix: Water
Date Received: 10/18/22 13:32

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		10/21/22 09:18	10/24/22 15:49	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		10/21/22 09:18	10/24/22 15:49	1
2-Chlorophenol	ND		4.8	0.16	ug/L		10/21/22 09:18	10/24/22 15:49	1
2-Nitrophenol	ND		4.8	0.17	ug/L		10/21/22 09:18	10/24/22 15:49	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		10/21/22 09:18	10/24/22 15:49	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		10/21/22 09:18	10/24/22 15:49	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		10/21/22 09:18	10/24/22 15:49	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		10/21/22 09:18	10/24/22 15:49	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		10/21/22 09:18	10/24/22 15:49	1
4-Nitrophenol	ND		14	0.46	ug/L		10/21/22 09:18	10/24/22 15:49	1
Acenaphthene	ND		4.8	0.19	ug/L		10/21/22 09:18	10/24/22 15:49	1
Acenaphthylene	ND		4.8	0.21	ug/L		10/21/22 09:18	10/24/22 15:49	1
Anthracene	ND		4.8	0.33	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzidine	ND	*1	76	13	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		10/21/22 09:18	10/24/22 15:49	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		10/21/22 09:18	10/24/22 15:49	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		10/21/22 09:18	10/24/22 15:49	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		10/21/22 09:18	10/24/22 15:49	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		10/21/22 09:18	10/24/22 15:49	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		10/21/22 09:18	10/24/22 15:49	1
Chrysene	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
Decane	ND		9.5	0.38	ug/L		10/21/22 09:18	10/24/22 15:49	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		10/21/22 09:18	10/24/22 15:49	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		10/21/22 09:18	10/24/22 15:49	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		10/21/22 09:18	10/24/22 15:49	1
Diethyl phthalate	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		10/21/22 09:18	10/24/22 15:49	1
Fluoranthene	ND		4.8	0.38	ug/L		10/21/22 09:18	10/24/22 15:49	1
Fluorene	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		10/21/22 09:18	10/24/22 15:49	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		10/21/22 09:18	10/24/22 15:49	1
Hexachloroethane	ND		4.8	0.14	ug/L		10/21/22 09:18	10/24/22 15:49	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		10/21/22 09:18	10/24/22 15:49	1
Isophorone	ND		4.8	0.18	ug/L		10/21/22 09:18	10/24/22 15:49	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		10/21/22 09:18	10/24/22 15:49	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		10/21/22 09:18	10/24/22 15:49	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		10/21/22 09:18	10/24/22 15:49	1
Naphthalene	ND		4.8	0.20	ug/L		10/21/22 09:18	10/24/22 15:49	1
Nitrobenzene	ND		4.8	0.19	ug/L		10/21/22 09:18	10/24/22 15:49	1
Pentachlorophenol	ND		9.5	0.75	ug/L		10/21/22 09:18	10/24/22 15:49	1
Phenanthrene	ND		4.8	0.29	ug/L		10/21/22 09:18	10/24/22 15:49	1
Phenol	ND		4.8	0.083	ug/L		10/21/22 09:18	10/24/22 15:49	1
Pyrene	ND		4.8	0.33	ug/L		10/21/22 09:18	10/24/22 15:49	1
n-Octadecane	ND		9.5	0.29	ug/L		10/21/22 09:18	10/24/22 15:49	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202872-6
Date Collected: 10/18/22 12:05
Matrix: Water
Date Received: 10/18/22 13:32

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*52 - 151*	*10/21/22 09:18*	*10/24/22 15:49*	*1*
2-Fluorobiphenyl	*104*		*44 - 120*	*10/21/22 09:18*	*10/24/22 15:49*	*1*
2-Fluorophenol	*53*		*17 - 120*	*10/21/22 09:18*	*10/24/22 15:49*	*1*
Nitrobenzene-d5	*102*		*15 - 314*	*10/21/22 09:18*	*10/24/22 15:49*	*1*
p-Terphenyl-d14	*106*		*22 - 125*	*10/21/22 09:18*	*10/24/22 15:49*	*1*
Phenol-d5	*36*		*8 - 424*	*10/21/22 09:18*	*10/24/22 15:49*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0088**	**J B**	0.010	0.0015	mg/L		10/20/22 10:09	10/28/22 01:05	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		10/19/22 11:05	10/19/22 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (MCAWW 335.4)	**0.11**	**B ^2**	0.010	0.0041	mg/L			11/01/22 13:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.2**	**HF**	0.1	0.1	SU			10/20/22 14:52	1
Temperature (SM 4500 H+ B)	**15.9**	**HF**	0.001	0.001	Degrees C			10/20/22 14:52	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-202872-5	TRIP BLANK	114	101	99	106
480-202872-6	001 LAB COMP	112	101	98	109
LCS 480-646142/6	Lab Control Sample	111	99	98	103
MB 480-646142/8	Method Blank	107	101	98	104

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-202872-6	001 LAB COMP	83	104	53	102	106	36
LCS 480-646514/2-A	Lab Control Sample	106	95	53	94	99	37
LCSD 480-646514/3-A	Lab Control Sample Dup	102	96	55	95	103	40
MB 480-646514/1-A	Method Blank	70	101	52	98	112	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-646142/8
Matrix: Water
Analysis Batch: 646142

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/19/22 13:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/19/22 13:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/19/22 13:00	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/19/22 13:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/19/22 13:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/19/22 13:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/19/22 13:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/19/22 13:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/19/22 13:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/19/22 13:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/19/22 13:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/19/22 13:00	1
Acrolein	ND		100	17	ug/L			10/19/22 13:00	1
Acrylonitrile	ND		50	1.9	ug/L			10/19/22 13:00	1
Benzene	ND		5.0	0.60	ug/L			10/19/22 13:00	1
Bromoform	ND		5.0	0.47	ug/L			10/19/22 13:00	1
Bromomethane	ND		5.0	1.2	ug/L			10/19/22 13:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/19/22 13:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/19/22 13:00	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/19/22 13:00	1
Chloroethane	ND		5.0	0.87	ug/L			10/19/22 13:00	1
Chloroform	ND		5.0	0.54	ug/L			10/19/22 13:00	1
Chloromethane	ND		5.0	0.64	ug/L			10/19/22 13:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/19/22 13:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/19/22 13:00	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/19/22 13:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/19/22 13:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/19/22 13:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/19/22 13:00	1
Toluene	ND		5.0	0.45	ug/L			10/19/22 13:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/19/22 13:00	1
Trichloroethene	ND		5.0	0.60	ug/L			10/19/22 13:00	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/19/22 13:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/19/22 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*10/19/22 13:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*10/19/22 13:00*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*10/19/22 13:00*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*10/19/22 13:00*	*1*

Lab Sample ID: LCS 480-646142/6
Matrix: Water
Analysis Batch: 646142

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	16.7		ug/L		84	52 - 162
1,1,2,2-Tetrachloroethane	20.0	16.6		ug/L		83	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-646142/6
Matrix: Water
Analysis Batch: 646142

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	16.6		ug/L		83	52 - 150
1,1-Dichloroethane	20.0	16.1		ug/L		81	59 - 155
1,1-Dichloroethene	20.0	15.1		ug/L		75	1 - 234
1,2-Dichlorobenzene	20.0	15.9		ug/L		80	18 - 190
1,2-Dichloroethane	20.0	18.0		ug/L		90	49 - 155
1,2-Dichloropropane	20.0	16.5		ug/L		82	1 - 210
1,3-Dichlorobenzene	20.0	16.1		ug/L		81	59 - 156
1,4-Dichlorobenzene	20.0	16.2		ug/L		81	18 - 190
2-Chloroethyl vinyl ether	20.0	17.7	J	ug/L		88	1 - 305
Benzene	20.0	15.9		ug/L		80	37 - 151
Bromoform	20.0	17.0		ug/L		85	45 - 169
Bromomethane	20.0	21.2		ug/L		106	1 - 242
Carbon tetrachloride	20.0	16.5		ug/L		83	70 - 140
Chlorobenzene	20.0	15.9		ug/L		80	37 - 160
Dibromochloromethane	20.0	17.2		ug/L		86	53 - 149
Chloroethane	20.0	21.3		ug/L		106	14 - 230
Chloroform	20.0	17.0		ug/L		85	51 - 138
Chloromethane	20.0	26.2		ug/L		131	1 - 273
cis-1,3-Dichloropropene	20.0	16.5		ug/L		83	1 - 227
Bromodichloromethane	20.0	17.4		ug/L		87	35 - 155
Ethylbenzene	20.0	15.9		ug/L		80	37 - 162
Methylene Chloride	20.0	15.4		ug/L		77	1 - 221
Tetrachloroethene	20.0	16.0		ug/L		80	64 - 148
Toluene	20.0	15.7		ug/L		78	47 - 150
trans-1,3-Dichloropropene	20.0	16.5		ug/L		83	17 - 183
Trichloroethene	20.0	16.2		ug/L		81	71 - 157
Trichlorofluoromethane	20.0	20.9		ug/L		104	17 - 181
Vinyl chloride	20.0	20.8		ug/L		104	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-646514/1-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		10/21/22 09:18	10/24/22 13:48	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		10/21/22 09:18	10/24/22 13:48	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		10/21/22 09:18	10/24/22 13:48	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		10/21/22 09:18	10/24/22 13:48	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-646514/1-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		10/21/22 09:18	10/24/22 13:48	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		10/21/22 09:18	10/24/22 13:48	1
2-Chlorophenol	ND		5.0	0.17	ug/L		10/21/22 09:18	10/24/22 13:48	1
2-Nitrophenol	ND		5.0	0.18	ug/L		10/21/22 09:18	10/24/22 13:48	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/21/22 09:18	10/24/22 13:48	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		10/21/22 09:18	10/24/22 13:48	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		10/21/22 09:18	10/24/22 13:48	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		10/21/22 09:18	10/24/22 13:48	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		10/21/22 09:18	10/24/22 13:48	1
4-Nitrophenol	ND		15	0.49	ug/L		10/21/22 09:18	10/24/22 13:48	1
Acenaphthene	ND		5.0	0.20	ug/L		10/21/22 09:18	10/24/22 13:48	1
Acenaphthylene	ND		5.0	0.22	ug/L		10/21/22 09:18	10/24/22 13:48	1
Anthracene	ND		5.0	0.35	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzidine	ND		80	14	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		10/21/22 09:18	10/24/22 13:48	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		10/21/22 09:18	10/24/22 13:48	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		10/21/22 09:18	10/24/22 13:48	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		10/21/22 09:18	10/24/22 13:48	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		10/21/22 09:18	10/24/22 13:48	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		10/21/22 09:18	10/24/22 13:48	1
Chrysene	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
Decane	ND		10	0.40	ug/L		10/21/22 09:18	10/24/22 13:48	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		10/21/22 09:18	10/24/22 13:48	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		10/21/22 09:18	10/24/22 13:48	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		10/21/22 09:18	10/24/22 13:48	1
Diethyl phthalate	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		10/21/22 09:18	10/24/22 13:48	1
Fluoranthene	ND		5.0	0.40	ug/L		10/21/22 09:18	10/24/22 13:48	1
Fluorene	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		10/21/22 09:18	10/24/22 13:48	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		10/21/22 09:18	10/24/22 13:48	1
Hexachloroethane	ND		5.0	0.15	ug/L		10/21/22 09:18	10/24/22 13:48	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		10/21/22 09:18	10/24/22 13:48	1
Isophorone	ND		5.0	0.19	ug/L		10/21/22 09:18	10/24/22 13:48	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		10/21/22 09:18	10/24/22 13:48	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		10/21/22 09:18	10/24/22 13:48	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		10/21/22 09:18	10/24/22 13:48	1
Naphthalene	ND		5.0	0.22	ug/L		10/21/22 09:18	10/24/22 13:48	1
Nitrobenzene	ND		5.0	0.20	ug/L		10/21/22 09:18	10/24/22 13:48	1
Pentachlorophenol	ND		10	0.79	ug/L		10/21/22 09:18	10/24/22 13:48	1
Phenanthrene	ND		5.0	0.30	ug/L		10/21/22 09:18	10/24/22 13:48	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-646514/1-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		10/21/22 09:18	10/24/22 13:48	1
Pyrene	ND		5.0	0.35	ug/L		10/21/22 09:18	10/24/22 13:48	1
n-Octadecane	ND		10	0.30	ug/L		10/21/22 09:18	10/24/22 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*52 - 151*	*10/21/22 09:18*	*10/24/22 13:48*	*1*
2-Fluorobiphenyl	*101*		*44 - 120*	*10/21/22 09:18*	*10/24/22 13:48*	*1*
2-Fluorophenol	*52*		*17 - 120*	*10/21/22 09:18*	*10/24/22 13:48*	*1*
Nitrobenzene-d5	*98*		*15 - 314*	*10/21/22 09:18*	*10/24/22 13:48*	*1*
p-Terphenyl-d14	*112*		*22 - 125*	*10/21/22 09:18*	*10/24/22 13:48*	*1*
Phenol-d5	*34*		*8 - 424*	*10/21/22 09:18*	*10/24/22 13:48*	*1*

Lab Sample ID: LCS 480-646514/2-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	35.9		ug/L		72	44 - 142
1,2-Dichlorobenzene	50.0	31.0		ug/L		62	32 - 129
1,3-Dichlorobenzene	50.0	28.8		ug/L		58	1 - 172
1,4-Dichlorobenzene	50.0	30.8		ug/L		62	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	44.5		ug/L		89	36 - 166
2,4,6-Trichlorophenol	50.0	47.8		ug/L		96	37 - 144
2,4-Dichlorophenol	50.0	44.3		ug/L		89	39 - 135
2,4-Dimethylphenol	50.0	45.5		ug/L		91	32 - 120
2,4-Dinitrophenol	100	112		ug/L		112	1 - 191
2,4-Dinitrotoluene	50.0	49.7		ug/L		99	39 - 139
2,6-Dinitrotoluene	50.0	49.5		ug/L		99	50 - 158
2-Chloronaphthalene	50.0	41.6		ug/L		83	60 - 120
2-Chlorophenol	50.0	40.2		ug/L		80	23 - 134
2-Nitrophenol	50.0	46.8		ug/L		94	29 - 182
3,3'-Dichlorobenzidine	100	106		ug/L		106	1 - 262
4,6-Dinitro-2-methylphenol	100	96.9		ug/L		97	1 - 181
4-Bromophenyl phenyl ether	50.0	50.2		ug/L		100	53 - 127
4-Chloro-3-methylphenol	50.0	48.7		ug/L		97	22 - 147
4-Chlorophenyl phenyl ether	50.0	47.7		ug/L		95	25 - 158
4-Nitrophenol	100	52.4		ug/L		52	1 - 132
Acenaphthene	50.0	45.2		ug/L		90	47 - 145
Acenaphthylene	50.0	46.6		ug/L		93	33 - 145
Anthracene	50.0	48.8		ug/L		98	27 - 133
Benzidine	100	ND		ug/L		6	1 - 120
Benzo[a]anthracene	50.0	50.4		ug/L		101	33 - 143
Benzo[a]pyrene	50.0	50.7		ug/L		101	17 - 163
Benzo[b]fluoranthene	50.0	52.1		ug/L		104	24 - 159
Benzo[g,h,i]perylene	50.0	52.5		ug/L		105	1 - 219
Benzo[k]fluoranthene	50.0	52.8		ug/L		106	11 - 162
Bis(2-chloroethoxy)methane	50.0	46.3		ug/L		93	33 - 184
Bis(2-chloroethyl)ether	50.0	45.3		ug/L		91	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-646514/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 646782
Prep Batch: 646514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	46.7		ug/L		93	8 - 158
Butyl benzyl phthalate	50.0	48.5		ug/L		97	1 - 152
Chrysene	50.0	47.4		ug/L		95	17 - 168
Di-n-butyl phthalate	50.0	49.0		ug/L		98	1 - 120
Di-n-octyl phthalate	50.0	49.6		ug/L		99	4 - 146
Dibenz(a,h)anthracene	50.0	52.4		ug/L		105	1 - 227
Diethyl phthalate	50.0	49.6		ug/L		99	1 - 120
Dimethyl phthalate	50.0	50.7		ug/L		101	1 - 120
Fluoranthene	50.0	50.2		ug/L		100	26 - 137
Fluorene	50.0	48.2		ug/L		96	59 - 121
Hexachlorobenzene	50.0	47.3		ug/L		95	1 - 152
Hexachlorocyclopentadiene	50.0	35.2		ug/L		70	5 - 120
Hexachloroethane	50.0	27.1		ug/L		54	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	59.8		ug/L		120	1 - 171
Isophorone	50.0	49.5		ug/L		99	21 - 196
N-Nitrosodi-n-propylamine	50.0	44.6		ug/L		89	1 - 230
N-Nitrosodiphenylamine	50.0	48.2		ug/L		96	54 - 125
Naphthalene	50.0	40.7		ug/L		81	21 - 133
Nitrobenzene	50.0	47.1		ug/L		94	35 - 180
Pentachlorophenol	100	100		ug/L		100	14 - 176
Phenanthrene	50.0	48.8		ug/L		98	54 - 120
Phenol	50.0	21.4		ug/L		43	5 - 120
Pyrene	50.0	45.1		ug/L		90	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*106*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol	*53*		*17 - 120*
Nitrobenzene-d5	*94*		*15 - 314*
p-Terphenyl-d14	*99*		*22 - 125*
Phenol-d5	*37*		*8 - 424*

Lab Sample ID: LCSD 480-646514/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 646782
Prep Batch: 646514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	34.9		ug/L		70	44 - 142	3	34
1,2-Dichlorobenzene	50.0	32.5		ug/L		65	32 - 129	5	38
1,3-Dichlorobenzene	50.0	29.3		ug/L		59	1 - 172	2	37
1,4-Dichlorobenzene	50.0	30.7		ug/L		61	20 - 124	0	40
2,2'-Oxybis(1-chloropropane)	50.0	45.3		ug/L		91	36 - 166	2	36
2,4,6-Trichlorophenol	50.0	51.1		ug/L		102	37 - 144	7	20
2,4-Dichlorophenol	50.0	45.0		ug/L		90	39 - 135	2	23
2,4-Dimethylphenol	50.0	47.0		ug/L		94	32 - 120	3	18
2,4-Dinitrophenol	100	119		ug/L		119	1 - 191	6	29
2,4-Dinitrotoluene	50.0	55.2		ug/L		110	39 - 139	11	20
2,6-Dinitrotoluene	50.0	52.6		ug/L		105	50 - 158	6	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-646514/3-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 646514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	50.0	43.0		ug/L		86	60 - 120	3	30
2-Chlorophenol	50.0	42.2		ug/L		84	23 - 134	5	26
2-Nitrophenol	50.0	46.9		ug/L		94	29 - 182	0	28
3,3'-Dichlorobenzidine	100	113		ug/L		113	1 - 262	7	31
4,6-Dinitro-2-methylphenol	100	104		ug/L		104	1 - 181	7	30
4-Bromophenyl phenyl ether	50.0	50.3		ug/L		101	53 - 127	0	16
4-Chloro-3-methylphenol	50.0	49.9		ug/L		100	22 - 147	2	16
4-Chlorophenyl phenyl ether	50.0	50.8		ug/L		102	25 - 158	6	15
4-Nitrophenol	100	46.2		ug/L		46	1 - 132	13	24
Acenaphthene	50.0	45.7		ug/L		91	47 - 145	1	25
Acenaphthylene	50.0	47.1		ug/L		94	33 - 145	1	22
Anthracene	50.0	48.3		ug/L		97	27 - 133	1	15
Benzidine	100	55.1	J *1	ug/L		55	1 - 120	164	50
Benzo[a]anthracene	50.0	51.7		ug/L		103	33 - 143	2	15
Benzo[a]pyrene	50.0	51.8		ug/L		104	17 - 163	2	15
Benzo[b]fluoranthene	50.0	51.0		ug/L		102	24 - 159	2	17
Benzo[g,h,i]perylene	50.0	48.5		ug/L		97	1 - 219	8	19
Benzo[k]fluoranthene	50.0	50.6		ug/L		101	11 - 162	4	19
Bis(2-chloroethoxy)methane	50.0	45.6		ug/L		91	33 - 184	2	23
Bis(2-chloroethyl)ether	50.0	46.2		ug/L		92	12 - 158	2	33
Bis(2-ethylhexyl) phthalate	50.0	49.5		ug/L		99	8 - 158	6	15
Butyl benzyl phthalate	50.0	51.7		ug/L		103	1 - 152	6	15
Chrysene	50.0	49.0		ug/L		98	17 - 168	3	15
Di-n-butyl phthalate	50.0	51.1		ug/L		102	1 - 120	4	15
Di-n-octyl phthalate	50.0	52.5		ug/L		105	4 - 146	6	15
Dibenz(a,h)anthracene	50.0	51.9		ug/L		104	1 - 227	1	18
Diethyl phthalate	50.0	54.2		ug/L		108	1 - 120	9	15
Dimethyl phthalate	50.0	51.0		ug/L		102	1 - 120	1	15
Fluoranthene	50.0	50.5		ug/L		101	26 - 137	0	15
Fluorene	50.0	50.7		ug/L		101	59 - 121	5	18
Hexachlorobenzene	50.0	47.9		ug/L		96	1 - 152	1	15
Hexachlorocyclopentadiene	50.0	36.2		ug/L		72	5 - 120	3	50
Hexachloroethane	50.0	27.6		ug/L		55	40 - 120	2	43
Indeno[1,2,3-cd]pyrene	50.0	56.3		ug/L		113	1 - 171	6	17
Isophorone	50.0	48.2		ug/L		96	21 - 196	3	21
N-Nitrosodi-n-propylamine	50.0	47.2		ug/L		94	1 - 230	6	23
N-Nitrosodiphenylamine	50.0	49.2		ug/L		98	54 - 125	2	15
Naphthalene	50.0	39.8		ug/L		80	21 - 133	2	31
Nitrobenzene	50.0	45.1		ug/L		90	35 - 180	4	27
Pentachlorophenol	100	101		ug/L		101	14 - 176	1	21
Phenanthrene	50.0	48.8		ug/L		98	54 - 120	0	16
Phenol	50.0	22.4		ug/L		45	5 - 120	4	36
Pyrene	50.0	49.6		ug/L		99	52 - 120	10	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*52 - 151*
2-Fluorobiphenyl	*96*		*44 - 120*
2-Fluorophenol	*55*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-646514/3-A
Matrix: Water
Analysis Batch: 646782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 646514

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	95		15 - 314
p-Terphenyl-d14	103		22 - 125
Phenol-d5	40		8 - 424

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-646225/1-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00250	J	0.010	0.0015	mg/L		10/20/22 10:09	10/27/22 23:15	1

Lab Sample ID: LCS 480-646225/2-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.208		mg/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-646169/1-A
Matrix: Water
Analysis Batch: 646251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		10/19/22 11:05	10/19/22 15:56	1

Lab Sample ID: LCS 480-646169/2-A
Matrix: Water
Analysis Batch: 646251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00613		mg/L		92	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-648095/105
Matrix: Water
Analysis Batch: 648095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00610	J	0.010	0.0041	mg/L			11/01/22 15:52	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MB 480-648095/21
Matrix: Water
Analysis Batch: 648095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			11/01/22 12:08	1

Lab Sample ID: MB 480-648095/49
Matrix: Water
Analysis Batch: 648095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00800	J	0.010	0.0041	mg/L			11/01/22 13:22	1

Lab Sample ID: HLCS 480-648095/22
Matrix: Water
Analysis Batch: 648095

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.406		mg/L		101	90 - 110

Lab Sample ID: LCS 480-648095/106
Matrix: Water
Analysis Batch: 648095

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: LCS 480-648095/50
Matrix: Water
Analysis Batch: 648095

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.247		mg/L		99	90 - 110

Lab Sample ID: LCSD 480-648095/25
Matrix: Water
Analysis Batch: 648095

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
Cyanide, Total	0.250	0.243		mg/L		97	90 - 110	1	15

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-646404/1
Matrix: Water
Analysis Batch: 646404

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

GC/MS VOA

Analysis Batch: 646142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-5	TRIP BLANK	Total/NA	Water	624.1	
480-202872-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-646142/8	Method Blank	Total/NA	Water	624.1	
LCS 480-646142/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 646514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	625	
MB 480-646514/1-A	Method Blank	Total/NA	Water	625	
LCS 480-646514/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-646514/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 646782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	625.1	646514
MB 480-646514/1-A	Method Blank	Total/NA	Water	625.1	646514
LCS 480-646514/2-A	Lab Control Sample	Total/NA	Water	625.1	646514
LCSD 480-646514/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	646514

Metals

Prep Batch: 646169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-646169/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-646169/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 646225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-646225/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-646225/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 646251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	245.1	646169
MB 480-646169/1-A	Method Blank	Total/NA	Water	245.1	646169
LCS 480-646169/2-A	Lab Control Sample	Total/NA	Water	245.1	646169

Analysis Batch: 647494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	646225
MB 480-646225/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	646225
LCS 480-646225/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	646225

General Chemistry

Analysis Batch: 646404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 646404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-646404/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 648095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202872-6	001 LAB COMP	Total/NA	Water	335.4	
MB 480-648095/105	Method Blank	Total/NA	Water	335.4	
MB 480-648095/21	Method Blank	Total/NA	Water	335.4	
MB 480-648095/49	Method Blank	Total/NA	Water	335.4	
HLCS 480-648095/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-648095/106	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-648095/50	Lab Control Sample	Total/NA	Water	335.4	
LCSD 480-648095/25	Lab Control Sample Dup	Total/NA	Water	335.4	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-202872-5
Date Collected: 10/18/22 00:00
Matrix: Water
Date Received: 10/18/22 13:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	646142	ATG	EET BUF	10/19/22 15:16

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-202872-6
Date Collected: 10/18/22 12:05
Matrix: Water
Date Received: 10/18/22 13:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	646142	ATG	EET BUF	10/19/22 15:40
Total/NA	Prep	625			646514	JMP	EET BUF	10/21/22 09:18
Total/NA	Analysis	625.1		1	646782	JMM	EET BUF	10/24/22 15:49
Total/NA	Prep	200.7			646225	VAK	EET BUF	10/20/22 10:09
Total/NA	Analysis	200.7 Rev 4.4		1	647494	LMH	EET BUF	10/28/22 01:05
Total/NA	Prep	245.1			646169	VAK	EET BUF	10/19/22 11:05
Total/NA	Analysis	245.1		1	646251	NVK	EET BUF	10/19/22 16:24
Total/NA	Analysis	335.4		1	648095	CLT	EET BUF	11/01/22 13:35
Total/NA	Analysis	SM 4500 H+ B		1	646404	ARR	EET BUF	10/20/22 14:52

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	MCAWW	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	40CFR136A	EET BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-202872-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-202872-5	TRIP BLANK	Water	10/18/22 00:00	10/18/22 13:32
480-202872-6	001 LAB COMP	Water	10/18/22 12:05	10/18/22 13:32

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Jason Gutkowski/Don Reed	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-178564-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: Steve.Hartmann@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): STANDARD			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Needed 30125855			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
M - Hexane
B - NaOH
Trate
I - Trizma
Z - other (specify)
Other:

480-202872 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Number of cont	Special Instructions/Note:
Preservation Code:							D	B	N	N	N	N		
001-1	10/18/22	0608	G	Water			X	X	X	X	X			Lab to Composite Samples
001-2	10/18/22	0808	G	Water			X	X	X	X	X			
001-3	10/18/22	1008	G	Water			X	X	X	X	X			
001-4	10/18/22	1205	G	Water			X	X	X	X	X			Short Hold Time
Trip Blank	—	—	—	Water								X		

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	Don Reed	10/18/22 13:32	Arcadis	[signature]	10/18/22 1332	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-202872-1

Login Number: 202872

List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Raymond Wagner
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse New York 13202

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.Monthly

JOB NUMBER

480-203380-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY14228-2298

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Qualifiers

GC/MS 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.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
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
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

Case Narrative

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Job ID: 480-203380-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-203380-1

Comments
No additional comments.

Receipt
The samples were received on 11/1/2022 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.2º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 11/2 as requested by the client: 001 LAB COMP (480-203380-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

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

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

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

General Chemistry
Methods 335.4: The continuing calibration blank (CCB) and method blank (MB) for analytical batch 480-649468 contained Cyanide above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Methods SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-203380-6).

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

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-648887.

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
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-203380-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00042	B	0.00020	0.000043	mg/L	1		245.1	Total/NA
Cyanide, Total	0.10	^2 B	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-203380-5
Date Collected: 11/01/22 00:00
Matrix: Water
Date Received: 11/01/22 14:53

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/02/22 14:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/02/22 14:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/02/22 14:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/02/22 14:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/02/22 14:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/02/22 14:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/02/22 14:27	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/02/22 14:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/02/22 14:27	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/02/22 14:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/02/22 14:27	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/02/22 14:27	1
Acrolein	ND		100	17	ug/L			11/02/22 14:27	1
Acrylonitrile	ND		50	1.9	ug/L			11/02/22 14:27	1
Benzene	ND		5.0	0.60	ug/L			11/02/22 14:27	1
Bromoform	ND		5.0	0.47	ug/L			11/02/22 14:27	1
Bromomethane	ND		5.0	1.2	ug/L			11/02/22 14:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/02/22 14:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/02/22 14:27	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/02/22 14:27	1
Chloroethane	ND		5.0	0.87	ug/L			11/02/22 14:27	1
Chloroform	ND		5.0	0.54	ug/L			11/02/22 14:27	1
Chloromethane	ND		5.0	0.64	ug/L			11/02/22 14:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/02/22 14:27	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/02/22 14:27	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/02/22 14:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/02/22 14:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/02/22 14:27	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/02/22 14:27	1
Toluene	ND		5.0	0.45	ug/L			11/02/22 14:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/02/22 14:27	1
Trichloroethene	ND		5.0	0.60	ug/L			11/02/22 14:27	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/02/22 14:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/02/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*11/02/22 14:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/02/22 14:27*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*11/02/22 14:27*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/02/22 14:27*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6
Date Collected: 11/01/22 12:10
Matrix: Water
Date Received: 11/01/22 14:53

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/02/22 14:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/02/22 14:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/02/22 14:51	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6
Date Collected: 11/01/22 12:10
Matrix: Water
Date Received: 11/01/22 14:53

Method: 40CFR136A 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/02/22 14:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/02/22 14:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/02/22 14:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/02/22 14:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/02/22 14:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/02/22 14:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/02/22 14:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/02/22 14:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/02/22 14:51	1
Acrolein	ND		100	17	ug/L			11/02/22 14:51	1
Acrylonitrile	ND		50	1.9	ug/L			11/02/22 14:51	1
Benzene	ND		5.0	0.60	ug/L			11/02/22 14:51	1
Bromoform	ND		5.0	0.47	ug/L			11/02/22 14:51	1
Bromomethane	ND		5.0	1.2	ug/L			11/02/22 14:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/02/22 14:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/02/22 14:51	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/02/22 14:51	1
Chloroethane	ND		5.0	0.87	ug/L			11/02/22 14:51	1
Chloroform	ND		5.0	0.54	ug/L			11/02/22 14:51	1
Chloromethane	ND		5.0	0.64	ug/L			11/02/22 14:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/02/22 14:51	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/02/22 14:51	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/02/22 14:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/02/22 14:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/02/22 14:51	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/02/22 14:51	1
Toluene	ND		5.0	0.45	ug/L			11/02/22 14:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/02/22 14:51	1
Trichloroethene	ND		5.0	0.60	ug/L			11/02/22 14:51	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/02/22 14:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/02/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*68 - 130*		*11/02/22 14:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*11/02/22 14:51*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*11/02/22 14:51*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/02/22 14:51*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		11/08/22 08:34	11/09/22 12:40	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		11/08/22 08:34	11/09/22 12:40	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		11/08/22 08:34	11/09/22 12:40	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		11/08/22 08:34	11/09/22 12:40	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		11/08/22 08:34	11/09/22 12:40	1

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6
Date Collected: 11/01/22 12:10
Matrix: Water
Date Received: 11/01/22 14:53

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		11/08/22 08:34	11/09/22 12:40	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		11/08/22 08:34	11/09/22 12:40	1
2-Chlorophenol	ND		4.8	0.16	ug/L		11/08/22 08:34	11/09/22 12:40	1
2-Nitrophenol	ND		4.8	0.17	ug/L		11/08/22 08:34	11/09/22 12:40	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		11/08/22 08:34	11/09/22 12:40	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		11/08/22 08:34	11/09/22 12:40	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		11/08/22 08:34	11/09/22 12:40	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		11/08/22 08:34	11/09/22 12:40	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		11/08/22 08:34	11/09/22 12:40	1
4-Nitrophenol	ND		14	0.46	ug/L		11/08/22 08:34	11/09/22 12:40	1
Acenaphthene	ND		4.8	0.19	ug/L		11/08/22 08:34	11/09/22 12:40	1
Acenaphthylene	ND		4.8	0.21	ug/L		11/08/22 08:34	11/09/22 12:40	1
Anthracene	ND		4.8	0.33	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzidine	ND		76	13	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		11/08/22 08:34	11/09/22 12:40	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		11/08/22 08:34	11/09/22 12:40	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		11/08/22 08:34	11/09/22 12:40	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		11/08/22 08:34	11/09/22 12:40	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		11/08/22 08:34	11/09/22 12:40	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		11/08/22 08:34	11/09/22 12:40	1
Chrysene	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
Decane	ND		9.5	0.38	ug/L		11/08/22 08:34	11/09/22 12:40	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		11/08/22 08:34	11/09/22 12:40	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		11/08/22 08:34	11/09/22 12:40	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		11/08/22 08:34	11/09/22 12:40	1
Diethyl phthalate	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		11/08/22 08:34	11/09/22 12:40	1
Fluoranthene	ND		4.8	0.38	ug/L		11/08/22 08:34	11/09/22 12:40	1
Fluorene	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		11/08/22 08:34	11/09/22 12:40	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		11/08/22 08:34	11/09/22 12:40	1
Hexachloroethane	ND		4.8	0.14	ug/L		11/08/22 08:34	11/09/22 12:40	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		11/08/22 08:34	11/09/22 12:40	1
Isophorone	ND		4.8	0.18	ug/L		11/08/22 08:34	11/09/22 12:40	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		11/08/22 08:34	11/09/22 12:40	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		11/08/22 08:34	11/09/22 12:40	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		11/08/22 08:34	11/09/22 12:40	1
Naphthalene	ND		4.8	0.20	ug/L		11/08/22 08:34	11/09/22 12:40	1
Nitrobenzene	ND		4.8	0.19	ug/L		11/08/22 08:34	11/09/22 12:40	1
Pentachlorophenol	ND		9.5	0.75	ug/L		11/08/22 08:34	11/09/22 12:40	1
Phenanthrene	ND		4.8	0.29	ug/L		11/08/22 08:34	11/09/22 12:40	1
Phenol	ND		4.8	0.083	ug/L		11/08/22 08:34	11/09/22 12:40	1
Pyrene	ND		4.8	0.33	ug/L		11/08/22 08:34	11/09/22 12:40	1
n-Octadecane	ND		9.5	0.29	ug/L		11/08/22 08:34	11/09/22 12:40	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6

Date Collected: 11/01/22 12:10
Matrix: Water
Date Received: 11/01/22 14:53

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*52 - 151*	*11/08/22 08:34*	*11/09/22 12:40*	*1*
2-Fluorobiphenyl	*84*		*44 - 120*	*11/08/22 08:34*	*11/09/22 12:40*	*1*
2-Fluorophenol	*45*		*17 - 120*	*11/08/22 08:34*	*11/09/22 12:40*	*1*
Nitrobenzene-d5	*83*		*15 - 314*	*11/08/22 08:34*	*11/09/22 12:40*	*1*
p-Terphenyl-d14	*96*		*22 - 125*	*11/08/22 08:34*	*11/09/22 12:40*	*1*
Phenol-d5	*31*		*8 - 424*	*11/08/22 08:34*	*11/09/22 12:40*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		11/03/22 09:53	11/04/22 17:08	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00042**	**B**	0.00020	0.000043	mg/L		11/03/22 11:39	11/04/22 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (MCAWW 335.4)	**0.10**	**^2 B**	0.010	0.0041	mg/L			11/10/22 15:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			11/08/22 12:20	1
Temperature (SM 4500 H+ B)	**20.6**	**HF**	0.001	0.001	Degrees C			11/08/22 12:20	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-203380-5	TRIP BLANK	103	99	96	101
480-203380-6	001 LAB COMP	105	98	98	102
LCS 480-648101/6	Lab Control Sample	106	100	98	100
MB 480-648101/8	Method Blank	101	101	96	99

Surrogate Legend

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

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-203380-6	001 LAB COMP	70	84	45	83	96	31
LCS 480-648887/2-A	Lab Control Sample	107	97	53	91	113	39
LCSD 480-648887/3-A	Lab Control Sample Dup	108	99	53	94	105	38
MB 480-648887/1-A	Method Blank	79	103	59	101	116	42

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-648101/8
Matrix: Water
Analysis Batch: 648101

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/02/22 13:31	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/02/22 13:31	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/02/22 13:31	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/02/22 13:31	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/02/22 13:31	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/02/22 13:31	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/02/22 13:31	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/02/22 13:31	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/02/22 13:31	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/02/22 13:31	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/02/22 13:31	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/02/22 13:31	1
Acrolein	ND		100	17	ug/L			11/02/22 13:31	1
Acrylonitrile	ND		50	1.9	ug/L			11/02/22 13:31	1
Benzene	ND		5.0	0.60	ug/L			11/02/22 13:31	1
Bromoform	ND		5.0	0.47	ug/L			11/02/22 13:31	1
Bromomethane	ND		5.0	1.2	ug/L			11/02/22 13:31	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/02/22 13:31	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/02/22 13:31	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/02/22 13:31	1
Chloroethane	ND		5.0	0.87	ug/L			11/02/22 13:31	1
Chloroform	ND		5.0	0.54	ug/L			11/02/22 13:31	1
Chloromethane	ND		5.0	0.64	ug/L			11/02/22 13:31	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/02/22 13:31	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/02/22 13:31	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/02/22 13:31	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/02/22 13:31	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/02/22 13:31	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/02/22 13:31	1
Toluene	ND		5.0	0.45	ug/L			11/02/22 13:31	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/02/22 13:31	1
Trichloroethene	ND		5.0	0.60	ug/L			11/02/22 13:31	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/02/22 13:31	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/02/22 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*11/02/22 13:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*11/02/22 13:31*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*11/02/22 13:31*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*11/02/22 13:31*	*1*

Lab Sample ID: LCS 480-648101/6
Matrix: Water
Analysis Batch: 648101

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	21.2		ug/L		106	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	20.6		ug/L		103	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-648101/6
Matrix: Water
Analysis Batch: 648101

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.7		ug/L		104	52 - 150
1,1-Dichloroethane	20.0	20.5		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	21.5		ug/L		107	1 - 234
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	18 - 190
1,2-Dichloroethane	20.0	21.0		ug/L		105	49 - 155
1,2-Dichloropropane	20.0	21.1		ug/L		105	1 - 210
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	59 - 156
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	22.1	J	ug/L		111	1 - 305
Benzene	20.0	20.5		ug/L		102	37 - 151
Bromoform	20.0	21.9		ug/L		110	45 - 169
Bromomethane	20.0	20.9		ug/L		105	1 - 242
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 140
Chlorobenzene	20.0	19.9		ug/L		100	37 - 160
Dibromochloromethane	20.0	20.6		ug/L		103	53 - 149
Chloroethane	20.0	20.7		ug/L		103	14 - 230
Chloroform	20.0	20.3		ug/L		102	51 - 138
Chloromethane	20.0	25.4		ug/L		127	1 - 273
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	1 - 227
Bromodichloromethane	20.0	21.0		ug/L		105	35 - 155
Ethylbenzene	20.0	20.0		ug/L		100	37 - 162
Methylene Chloride	20.0	15.5		ug/L		77	1 - 221
Tetrachloroethene	20.0	20.3		ug/L		102	64 - 148
Toluene	20.0	20.1		ug/L		101	47 - 150
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	17 - 183
Trichloroethene	20.0	20.1		ug/L		101	71 - 157
Trichlorofluoromethane	20.0	19.9		ug/L		99	17 - 181
Vinyl chloride	20.0	21.9		ug/L		110	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 130*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-648887/1-A
Matrix: Water
Analysis Batch: 649099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		11/08/22 08:34	11/09/22 11:27	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		11/08/22 08:34	11/09/22 11:27	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		11/08/22 08:34	11/09/22 11:27	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		11/08/22 08:34	11/09/22 11:27	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-648887/1-A
Matrix: Water
Analysis Batch: 649099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		11/08/22 08:34	11/09/22 11:27	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		11/08/22 08:34	11/09/22 11:27	1
2-Chlorophenol	ND		5.0	0.17	ug/L		11/08/22 08:34	11/09/22 11:27	1
2-Nitrophenol	ND		5.0	0.18	ug/L		11/08/22 08:34	11/09/22 11:27	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/08/22 08:34	11/09/22 11:27	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		11/08/22 08:34	11/09/22 11:27	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		11/08/22 08:34	11/09/22 11:27	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		11/08/22 08:34	11/09/22 11:27	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		11/08/22 08:34	11/09/22 11:27	1
4-Nitrophenol	ND		15	0.49	ug/L		11/08/22 08:34	11/09/22 11:27	1
Acenaphthene	ND		5.0	0.20	ug/L		11/08/22 08:34	11/09/22 11:27	1
Acenaphthylene	ND		5.0	0.22	ug/L		11/08/22 08:34	11/09/22 11:27	1
Anthracene	ND		5.0	0.35	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzidine	ND		80	14	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		11/08/22 08:34	11/09/22 11:27	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		11/08/22 08:34	11/09/22 11:27	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		11/08/22 08:34	11/09/22 11:27	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		11/08/22 08:34	11/09/22 11:27	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		11/08/22 08:34	11/09/22 11:27	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		11/08/22 08:34	11/09/22 11:27	1
Chrysene	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
Decane	ND		10	0.40	ug/L		11/08/22 08:34	11/09/22 11:27	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		11/08/22 08:34	11/09/22 11:27	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		11/08/22 08:34	11/09/22 11:27	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		11/08/22 08:34	11/09/22 11:27	1
Diethyl phthalate	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		11/08/22 08:34	11/09/22 11:27	1
Fluoranthene	ND		5.0	0.40	ug/L		11/08/22 08:34	11/09/22 11:27	1
Fluorene	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		11/08/22 08:34	11/09/22 11:27	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		11/08/22 08:34	11/09/22 11:27	1
Hexachloroethane	ND		5.0	0.15	ug/L		11/08/22 08:34	11/09/22 11:27	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		11/08/22 08:34	11/09/22 11:27	1
Isophorone	ND		5.0	0.19	ug/L		11/08/22 08:34	11/09/22 11:27	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		11/08/22 08:34	11/09/22 11:27	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		11/08/22 08:34	11/09/22 11:27	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		11/08/22 08:34	11/09/22 11:27	1
Naphthalene	ND		5.0	0.22	ug/L		11/08/22 08:34	11/09/22 11:27	1
Nitrobenzene	ND		5.0	0.20	ug/L		11/08/22 08:34	11/09/22 11:27	1
Pentachlorophenol	ND		10	0.79	ug/L		11/08/22 08:34	11/09/22 11:27	1
Phenanthrene	ND		5.0	0.30	ug/L		11/08/22 08:34	11/09/22 11:27	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-648887/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649099
Prep Batch: 648887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		11/08/22 08:34	11/09/22 11:27	1
Pyrene	ND		5.0	0.35	ug/L		11/08/22 08:34	11/09/22 11:27	1
n-Octadecane	ND		10	0.30	ug/L		11/08/22 08:34	11/09/22 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*52 - 151*	*11/08/22 08:34*	*11/09/22 11:27*	*1*
2-Fluorobiphenyl	*103*		*44 - 120*	*11/08/22 08:34*	*11/09/22 11:27*	*1*
2-Fluorophenol	*59*		*17 - 120*	*11/08/22 08:34*	*11/09/22 11:27*	*1*
Nitrobenzene-d5	*101*		*15 - 314*	*11/08/22 08:34*	*11/09/22 11:27*	*1*
p-Terphenyl-d14	*116*		*22 - 125*	*11/08/22 08:34*	*11/09/22 11:27*	*1*
Phenol-d5	*42*		*8 - 424*	*11/08/22 08:34*	*11/09/22 11:27*	*1*

Lab Sample ID: LCS 480-648887/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649099
Prep Batch: 648887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	33.4		ug/L		67	44 - 142
1,2-Dichlorobenzene	50.0	29.5		ug/L		59	32 - 129
1,3-Dichlorobenzene	50.0	25.5		ug/L		51	1 - 172
1,4-Dichlorobenzene	50.0	27.4		ug/L		55	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	41.0		ug/L		82	36 - 166
2,4,6-Trichlorophenol	50.0	51.2		ug/L		102	37 - 144
2,4-Dichlorophenol	50.0	47.0		ug/L		94	39 - 135
2,4-Dimethylphenol	50.0	47.6		ug/L		95	32 - 120
2,4-Dinitrophenol	100	127		ug/L		127	1 - 191
2,4-Dinitrotoluene	50.0	57.9		ug/L		116	39 - 139
2,6-Dinitrotoluene	50.0	51.7		ug/L		103	50 - 158
2-Chloronaphthalene	50.0	42.9		ug/L		86	60 - 120
2-Chlorophenol	50.0	40.9		ug/L		82	23 - 134
2-Nitrophenol	50.0	52.8		ug/L		106	29 - 182
3,3'-Dichlorobenzidine	100	92.7		ug/L		93	1 - 262
4,6-Dinitro-2-methylphenol	100	108		ug/L		108	1 - 181
4-Bromophenyl phenyl ether	50.0	47.8		ug/L		96	53 - 127
4-Chloro-3-methylphenol	50.0	49.4		ug/L		99	22 - 147
4-Chlorophenyl phenyl ether	50.0	48.6		ug/L		97	25 - 158
4-Nitrophenol	100	57.7		ug/L		58	1 - 132
Acenaphthene	50.0	46.6		ug/L		93	47 - 145
Acenaphthylene	50.0	47.1		ug/L		94	33 - 145
Anthracene	50.0	50.6		ug/L		101	27 - 133
Benzidine	100	103		ug/L		103	1 - 120
Benzo[a]anthracene	50.0	50.2		ug/L		100	33 - 143
Benzo[a]pyrene	50.0	52.2		ug/L		104	17 - 163
Benzo[b]fluoranthene	50.0	56.2		ug/L		112	24 - 159
Benzo[g,h,i]perylene	50.0	51.4		ug/L		103	1 - 219
Benzo[k]fluoranthene	50.0	49.5		ug/L		99	11 - 162
Bis(2-chloroethoxy)methane	50.0	45.3		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	50.0	43.0		ug/L		86	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-648887/2-A
Matrix: Water
Analysis Batch: 649099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	53.4		ug/L		107	8 - 158
Butyl benzyl phthalate	50.0	53.3		ug/L		107	1 - 152
Chrysene	50.0	51.7		ug/L		103	17 - 168
Di-n-butyl phthalate	50.0	51.8		ug/L		104	1 - 120
Di-n-octyl phthalate	50.0	52.1		ug/L		104	4 - 146
Dibenz(a,h)anthracene	50.0	52.5		ug/L		105	1 - 227
Diethyl phthalate	50.0	51.1		ug/L		102	1 - 120
Dimethyl phthalate	50.0	51.9		ug/L		104	1 - 120
Fluoranthene	50.0	48.6		ug/L		97	26 - 137
Fluorene	50.0	49.9		ug/L		100	59 - 121
Hexachlorobenzene	50.0	48.5		ug/L		97	1 - 152
Hexachlorocyclopentadiene	50.0	35.8		ug/L		72	5 - 120
Hexachloroethane	50.0	22.3		ug/L		45	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	51.9		ug/L		104	1 - 171
Isophorone	50.0	47.0		ug/L		94	21 - 196
N-Nitrosodi-n-propylamine	50.0	46.6		ug/L		93	1 - 230
N-Nitrosodiphenylamine	50.0	49.0		ug/L		98	54 - 125
Naphthalene	50.0	39.1		ug/L		78	21 - 133
Nitrobenzene	50.0	44.0		ug/L		88	35 - 180
Pentachlorophenol	100	120		ug/L		120	14 - 176
Phenanthrene	50.0	50.2		ug/L		100	54 - 120
Phenol	50.0	21.8		ug/L		44	5 - 120
Pyrene	50.0	53.8		ug/L		108	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*107*		*52 - 151*
2-Fluorobiphenyl	*97*		*44 - 120*
2-Fluorophenol	*53*		*17 - 120*
Nitrobenzene-d5	*91*		*15 - 314*
p-Terphenyl-d14	*113*		*22 - 125*
Phenol-d5	*39*		*8 - 424*

Lab Sample ID: LCSD 480-648887/3-A
Matrix: Water
Analysis Batch: 649099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648887

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	34.9		ug/L		70	44 - 142	4	34
1,2-Dichlorobenzene	50.0	29.8		ug/L		60	32 - 129	1	38
1,3-Dichlorobenzene	50.0	26.3		ug/L		53	1 - 172	3	37
1,4-Dichlorobenzene	50.0	27.9		ug/L		56	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	50.0	40.5		ug/L		81	36 - 166	1	36
2,4,6-Trichlorophenol	50.0	50.4		ug/L		101	37 - 144	2	20
2,4-Dichlorophenol	50.0	48.1		ug/L		96	39 - 135	2	23
2,4-Dimethylphenol	50.0	46.1		ug/L		92	32 - 120	3	18
2,4-Dinitrophenol	100	131		ug/L		131	1 - 191	3	29
2,4-Dinitrotoluene	50.0	59.0		ug/L		118	39 - 139	2	20
2,6-Dinitrotoluene	50.0	52.2		ug/L		104	50 - 158	1	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-648887/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 649099
Prep Batch: 648887

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	45.0		ug/L		90	60 - 120	5	30
2-Chlorophenol			50.0	38.6		ug/L		77	23 - 134	6	26
2-Nitrophenol			50.0	52.9		ug/L		106	29 - 182	0	28
3,3'-Dichlorobenzidine			100	90.0		ug/L		90	1 - 262	3	31
4,6-Dinitro-2-methylphenol			100	111		ug/L		111	1 - 181	2	30
4-Bromophenyl phenyl ether			50.0	49.5		ug/L		99	53 - 127	4	16
4-Chloro-3-methylphenol			50.0	50.3		ug/L		101	22 - 147	2	16
4-Chlorophenyl phenyl ether			50.0	48.1		ug/L		96	25 - 158	1	15
4-Nitrophenol			100	58.8		ug/L		59	1 - 132	2	24
Acenaphthene			50.0	46.0		ug/L		92	47 - 145	1	25
Acenaphthylene			50.0	46.8		ug/L		94	33 - 145	1	22
Anthracene			50.0	50.5		ug/L		101	27 - 133	0	15
Benzidine			100	112		ug/L		112	1 - 120	9	50
Benzo[a]anthracene			50.0	50.0		ug/L		100	33 - 143	1	15
Benzo[a]pyrene			50.0	53.1		ug/L		106	17 - 163	2	15
Benzo[b]fluoranthene			50.0	51.5		ug/L		103	24 - 159	9	17
Benzo[g,h,i]perylene			50.0	52.8		ug/L		106	1 - 219	3	19
Benzo[k]fluoranthene			50.0	55.5		ug/L		111	11 - 162	11	19
Bis(2-chloroethoxy)methane			50.0	45.8		ug/L		92	33 - 184	1	23
Bis(2-chloroethyl)ether			50.0	42.7		ug/L		85	12 - 158	1	33
Bis(2-ethylhexyl) phthalate			50.0	50.9		ug/L		102	8 - 158	5	15
Butyl benzyl phthalate			50.0	51.6		ug/L		103	1 - 152	3	15
Chrysene			50.0	50.6		ug/L		101	17 - 168	2	15
Di-n-butyl phthalate			50.0	50.8		ug/L		102	1 - 120	2	15
Di-n-octyl phthalate			50.0	51.9		ug/L		104	4 - 146	0	15
Dibenz(a,h)anthracene			50.0	53.0		ug/L		106	1 - 227	1	18
Diethyl phthalate			50.0	50.5		ug/L		101	1 - 120	1	15
Dimethyl phthalate			50.0	51.1		ug/L		102	1 - 120	2	15
Fluoranthene			50.0	47.6		ug/L		95	26 - 137	2	15
Fluorene			50.0	49.7		ug/L		99	59 - 121	1	18
Hexachlorobenzene			50.0	49.8		ug/L		100	1 - 152	3	15
Hexachlorocyclopentadiene			50.0	37.8		ug/L		76	5 - 120	6	50
Hexachloroethane			50.0	23.5		ug/L		47	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			50.0	53.0		ug/L		106	1 - 171	2	17
Isophorone			50.0	47.8		ug/L		96	21 - 196	2	21
N-Nitrosodi-n-propylamine			50.0	45.5		ug/L		91	1 - 230	2	23
N-Nitrosodiphenylamine			50.0	50.8		ug/L		102	54 - 125	4	15
Naphthalene			50.0	40.0		ug/L		80	21 - 133	2	31
Nitrobenzene			50.0	44.7		ug/L		89	35 - 180	2	27
Pentachlorophenol			100	119		ug/L		119	14 - 176	1	21
Phenanthrene			50.0	50.3		ug/L		101	54 - 120	0	16
Phenol			50.0	21.4		ug/L		43	5 - 120	2	36
Pyrene			50.0	53.9		ug/L		108	52 - 120	0	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*108*		*52 - 151*
2-Fluorobiphenyl	*99*		*44 - 120*
2-Fluorophenol	*53*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-648887/3-A
Matrix: Water
Analysis Batch: 649099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648887

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*94*		*15 - 314*
p-Terphenyl-d14	*105*		*22 - 125*
Phenol-d5	*38*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-648240/1-A
Matrix: Water
Analysis Batch: 648688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		11/03/22 09:53	11/04/22 16:37	1

Lab Sample ID: LCS 480-648240/2-A
Matrix: Water
Analysis Batch: 648688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.200	0.202		mg/L		101	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-648335/1-A
Matrix: Water
Analysis Batch: 648539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000133	J	0.00020	0.000043	mg/L		11/03/22 11:39	11/04/22 09:15	1

Lab Sample ID: LCS 480-648335/2-A
Matrix: Water
Analysis Batch: 648539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00667	0.00707		mg/L		106	85 - 115

Lab Sample ID: LCSD 480-648335/3-A
Matrix: Water
Analysis Batch: 648539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 648335

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00667	0.00705		mg/L		106	85 - 115	0	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-649468/48
Matrix: Water
Analysis Batch: 649468

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0129		0.010	0.0041	mg/L			11/10/22 15:27	1

Lab Sample ID: HLCS 480-649468/22
Matrix: Water
Analysis Batch: 649468

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.419		mg/L		105	90 - 110

Lab Sample ID: LCS 480-649468/23
Matrix: Water
Analysis Batch: 649468

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.262		mg/L		105	90 - 110

Lab Sample ID: LCS 480-649468/49
Matrix: Water
Analysis Batch: 649468

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.254		mg/L		102	90 - 110

Lab Sample ID: 480-203380-6 MS
Matrix: Water
Analysis Batch: 649468

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.10	^2 B	0.100	0.196		mg/L		91	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-648980/1
Matrix: Water
Analysis Batch: 648980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

GC/MS VOA

Analysis Batch: 648101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-5	TRIP BLANK	Total/NA	Water	624.1	
480-203380-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-648101/8	Method Blank	Total/NA	Water	624.1	
LCS 480-648101/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 648887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	625	
MB 480-648887/1-A	Method Blank	Total/NA	Water	625	
LCS 480-648887/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-648887/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 649099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	625.1	648887
MB 480-648887/1-A	Method Blank	Total/NA	Water	625.1	648887
LCS 480-648887/2-A	Lab Control Sample	Total/NA	Water	625.1	648887
LCSD 480-648887/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	648887

Metals

Prep Batch: 648240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-648240/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-648240/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 648335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-648335/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-648335/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 480-648335/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 648539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	245.1	648335
MB 480-648335/1-A	Method Blank	Total/NA	Water	245.1	648335
LCS 480-648335/2-A	Lab Control Sample	Total/NA	Water	245.1	648335
LCSD 480-648335/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	648335

Analysis Batch: 648688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	648240
MB 480-648240/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	648240
LCS 480-648240/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	648240

QC Association Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

General Chemistry

Analysis Batch: 648980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-648980/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 649468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-203380-6	001 LAB COMP	Total/NA	Water	335.4	
MB 480-649468/48	Method Blank	Total/NA	Water	335.4	
HLCS 480-649468/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-649468/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-649468/49	Lab Control Sample	Total/NA	Water	335.4	
480-203380-6 MS	001 LAB COMP	Total/NA	Water	335.4	

Lab Chronicle

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-203380-5
Date Collected: 11/01/22 00:00
Matrix: Water
Date Received: 11/01/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	648101	ATG	EET BUF	11/02/22 14:27

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-203380-6
Date Collected: 11/01/22 12:10
Matrix: Water
Date Received: 11/01/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	648101	ATG	EET BUF	11/02/22 14:51
Total/NA	Prep	625			648887	JMP	EET BUF	11/08/22 08:34
Total/NA	Analysis	625.1		1	649099	RJS	EET BUF	11/09/22 12:40
Total/NA	Prep	200.7			648240	VAK	EET BUF	11/03/22 09:53
Total/NA	Analysis	200.7 Rev 4.4		1	648688	LMH	EET BUF	11/04/22 17:08
Total/NA	Prep	245.1			648335	VAK	EET BUF	11/03/22 11:39
Total/NA	Analysis	245.1		1	648539	NVK	EET BUF	11/04/22 09:51
Total/NA	Analysis	335.4		1	649468	CLT	EET BUF	11/10/22 15:31
Total/NA	Analysis	SM 4500 H+ B		1	648980	ARR	EET BUF	11/08/22 12:20

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	MCAWW	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	40CFR136A	EET BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Job ID: 480-203380-1
Project/Site: Iroquois Gas/Westwood Pharm.Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-203380-5	TRIP BLANK	Water	11/01/22 00:00	11/01/22 14:53
480-203380-6	001 LAB COMP	Water	11/01/22 12:10	11/01/22 14:53

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information
Client Contact: Jason Gutkowski
Company: ARCADIS U.S., Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone:
Email: jason.gutkowski@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm. Monthly
Site:

Sampler: Jason Gutkowski
Phone: 315 4363605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: Needed 30125855
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Hartmann, Steve
E-Mail: Steve.Hartmann@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: Syracuse #225

COC No: 480-171463-34075.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
...odecahydrate
...ie
...5
...specify)

480-203380 Chain of Custody

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)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	624.1_PREC - (MOD) Priority Pollutant List - VOA	Total Numb	Special Instructions/Note:
Preservation Code:							D	B	N	N	N	N		
001-1	11/1/22	0610	G	Water			X	X	X	X	X			Lab To Composite Samples
001-2	↓	0810	↓	Water			X	X	X	X	X			
001-3		1010		↓			X	X	X	X	X			
001-4		1210					X	X	X	X	X			
Trip Blank	—	—										X		Short Hold Time

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: Dan Gelb	Date/Time: 11/1/22 1228	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-1-22 1228	Company JAB

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 16.2 #1 ICE OTHER

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-203380-1

Login Number: 203380
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

Authorization



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Designee for
Steve Hartmann, Project Manager
Steve.Hartmann@et.eurofinsus.com
(413)572-4000

Attachment E

Laboratory Investigation Report

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Incident Investigation and Corrective Action Report

Title: iCat Ref #7190-21000; ARCADIS Iroquois Gas/Westwood Pharm. (Monthly), Job ID 480-202251-1, pH Test Result for Lab Comp Sample

Contacts: Greer, Pete <Pete.Greer@arcadis.com>;
Maresco, Vin <Vin.Maresco@arcadis.com>;
Kirschner, Dustin <Dustin.Kirschner@arcadis.com>;
Zoanetti, Andrew <Andrew.Zoanetti@arcadis.com>;
Hartmann, Steve <Steve.Hartmann@et.eurofinsus.com>

Prepared By: Michael Mosscrop, Michael.Mosscrop@et.eurofinsus.com

Incident Date: 10/03/2022

Request Date: 10/18/2022

Report Date: 10/24/2022

Incident Description or Issue(s) Requiring Corrective Action:

Monthly effluent sample received by the lab 10/3/22, and composited by the lab for analysis, had an unexpected pH test result of 12.5, which does not agree with past test results for the site. Upon request, the lab screened an alternate unpreserved sample container using a pH indicator strip. The result was a neutral pH.

Investigation/Response:

Samples for the job referenced above were collected on 10/3/22 and were received at the Eurofins Buffalo laboratory on the day of collection. Four samples were received and composited at the laboratory for analysis under ID 480-202251-1 (001 LAB COMP). The composited sample was divided into separate containers specific to the assigned analytical tests. The lab uses purchased containers that come pre-preserved, or unpreserved, as appropriate to the test method. The analysis of sample pH by Standard Method 4500-H+ B, from unpreserved plastic container ‘F’, gave a result of 12.5 SU.

Since a pH >12 is consistent with the NaOH preservation used for the cyanide samples, the laboratory performed an inspection of the containers assigned to both the cyanide and pH tests. The container type, preservation, and labels were all in order and as expected. The pH of the unpreserved sample container used for the reported pH test was verified at the time of inspection as >12 via a pH indicator strip, indicating the reported test result was accurate for the sample container as tested. Remaining unpreserved sample volume from the extra glass container for method 625.1 was again verified as neutral pH via test strip.

Based on regular past results for this site, and the discrepancy between the pH measured in the separate plastic and glass unpreserved containers, which were prepared by compositing within the lab, the lab believes the reported pH result of 12.5 SU to be an anomalous lab artifact not representative to the samples as collected. After review of the procedures and process involved, the lab has concluded that the most likely source of this discrepancy is that the container caps for the NaOH preserved cyanide test container and the unpreserved pH test container was switched while dividing the composited sample into the separate containers for analysis. The lab verified that the NaOH residue on the cap of the pre-preserved containers used would be sufficient to cause the high pH reading for relatively clean water samples with low buffering capacity.

Corrective Action(s):

The laboratory can reanalyze for pH using the remaining unpreserved glass container and revise the report if requested. This may be unnecessary, as the client has already re-submitted samples for analysis.

Based on the likely cause of the discrepancy, ensuring that the container cap labels are affixed prior to dividing the samples will reduce the potential for a cap switch, and allow for verification if a switch did occur.

Attachment F

New Flowmeter Certification

Certificate of Calibration

PULSAFEEDER®



Install Date:
12/14/2022

Company Name: Grainger
Address:ACCOUNTS PAYABLE
DEPARTMENT
MW-H11
PALATINE, IL 60038

Part Number	Item Description	Serial Number
MTR304-G	N L MTR,1.0” NPT, 50GPM, 1.0GPC	22 002283-NL



This is to affirm that the following electronic contacting Multi-Jet water meter was tested in accordance with American Water Works Association Specifications C708 and achieved accuracy results +/- 1 ½%. The meter calibration is good for 1 year from the date of install.

PULSAFEEDER

27101 Airport Road
Punta Gorda, FL 33982
Phone: 941-575-3800
www.pulsatron.com

Appendix B

Groundwater Monitoring

Table 1
Groundwater Elevation Data
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York

ARCADIS Design & Consultancy for natural and built assets

Groundwater Elevation Data					
Well ID	Reference Elevation (ft. amsl)	September 2, 2021		November 10, 2021	
		DTW	GWE	DTW	GWE
B19	592.14	10.13	582.01	10.27	581.87
B3	590.74	NM	NM	NM	NM
B6R	590.86	17.55	573.31	17.21	573.65
B7R	591.59	18.24	573.35	18.04	573.55
B8R	592.16	18.45	573.71	18.20	573.96
MWF1	592.28	7.93	584.35	7.51	584.77
MWF2	594.66	9.15	585.51	8.46	586.20
MWF3	591.66	5.00	586.66	4.97	586.69
MWF4	594.00	15.30	578.70	15.24	578.76
MWF5	589.90	12.82	577.08	13.55	576.35
MWS2	591.89	11.20	580.69	10.70	581.19
MWS4	593.05	12.06	580.99	11.62	581.43
P1	590.77	15.09	575.68	14.79	575.98
P2	591.30	17.24	574.06	17.32	573.98
P6R	590.85	17.53	573.32	17.30	573.55
P7R	591.36	17.95	573.41	17.57	573.79
P8R	591.28	18.04	573.24	17.75	573.53
PF3	591.48	14.42	577.06	13.90	577.58
PF4	591.48	19.60	571.88	18.79	572.69
PF6	592.86	6.75	586.11	5.91	586.95
PS1	592.89	11.75	581.14	11.01	581.88
PS2	593.40	12.91	580.49	12.40	581.00
TP1	591.27	17.95	573.32	17.68	573.59
TP2	589.87	16.26	573.61	15.95	573.92
Pumping Sump in Trench	589.26	19.68	569.58	18.30	570.96

Notes:
DTW - Depth to water in feet, below top of casing
GWE - Groundwater Elevation, ft. amsl
NM - Not Measured
ft. amsl - feet above mean sea level

Table 2
Groundwater Analytical Data for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
B3	12/13/2011	9.75	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	6/28/2012	8.46	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	12/11/2012	10.01	0.099	2.1	0.7	2.7	1
	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	7.78	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/21/2016	8.85	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/29/2017	6.49	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	7.5	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/23/2018	6.46	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	6.67	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	6/12/2019	6.6	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	11/18/2019	6.55	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2020	6.49	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	12/9/2020	6.85	ND < 1.6	ND < 2.0	ND < 3.0	ND <2.6	ND < 3.0
	9/2/2021	NM	NS	NS	NS	NS	NS
	11/10/2021	NM	NS	NS	NS	NS	NS
B6	12/13/2011	18.21	0.11	0.067	ND < 0.20	ND	ND < 0.20
	6/28/2012	18.59	0.22	ND < 0.20	ND < 0.20	ND	ND < 0.20
	12/11/2012	18.00	0.043	0.22	0.064	0.29	0.068
	8/24/2015	18.51	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	4/27/2016	18.7	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2016	18.58	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	25.81	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	23.27	0.26 J	ND < 0.25	2.2	0.38 J	0.83 J
B6R	10/24/2018	16.94	**1**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/17/2018	17.31	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	6/12/2019	16.34	ND < 0.41	ND < 0.51	2	ND < 0.66	ND < 0.76
	11/18/2019	16.97	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/3/2020	17.2	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/10/2020	16.68	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2021	17.55	0.41 J	ND < 1.0	1.1	ND < 2.0	ND < 1.0
	11/10/2021	17.21	ND < 0.41 F1	ND < 0.51 F1	ND < 0.74 F1	ND < 0.66 F1	ND < 0.76
B7	12/13/2011	19.52	0.12	ND < 0.20	ND < 0.20	ND	ND < 0.20
	6/28/2012	20.42	**4.7**	0.068	0.079	ND	0.11
	12/11/2012	19.16	**3.9**	0.42	0.13	0.36	0.17
	8/25/2015	19.79	**9.8**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	4/27/2016	19.9	**6.4**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/21/2016	18.42	**12**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	26.47	**5.1**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	17.96	**56**	1.7	**38**	3.7	**12**
B7R	10/24/2018	18.01	**42**	ND < 1.0	**6.4**	ND < 1.3	1.5 J
	12/17/2018	18.31	**38**	ND < 1.0	**12**	ND < 1.3	2.9
	6/12/2019	16.99	**18**	ND < 0.51	**22**	1.1 J	**6.3**
	11/18/2019	17.79	**19**	0.51 J	**18**	1.2 J	**5.4**
	9/3/2020	18.05	**25**	ND < 0.51	**5.2**	ND < 0.66	2.2
	12/10/2020	17.57	**17**	ND < 0.51	2	ND < 0.66	1.6
	9/2/2021	18.24	**32**	ND < 2.0	ND < 2.0	ND < 4.0	ND < 2.0
	11/11/2021	18.04	**22**	ND < 1.0	1.5 J	ND < 1.3	ND < 1.5
B8	12/13/2011	18.11	**100**	1	**50**	**9.3**	**17**
	6/28/2012	18.72	**150**	1.4	**77**	**6.2**	**27**
	12/11/2012	18.03	**51**	1.3	**23**	**5.4**	**13**
	8/25/2015	18.41	**220**	1.7	**60**	**11**	**36**
	4/27/2016	NM	**100**	ND < 2.0	**54**	**6.3 J**	**21**
	12/20/2016	18.46	**450**	ND < 5.1	**45**	ND < 6.6	**32**
	3/29/2017	25.67	**7.5**	ND < 0.51	**20**	3.1	**7.5**
	12/20/2017	18.48	**530**	**250**	**830**	**300**	**210**
B8R	10/23/2018	18.26	**620**	**140**	**530**	**160**	**170**
	12/17/2018	18.25	**500**	**75**	**470**	**110**	**130**
	6/12/2019	17.15	**550**	**130**	**580**	**170**	**170**
	11/18/2019	14.84	NS**	NS**	NS**	NS**	NS**
	9/2/2020	18.19	**380**	**37**	**530**	**110**	**130**
	12/9/2020	17.60	**300**	**26**	**450**	**110**	**130**
	9/2/2021	18.45	**580**	**64**	**950**	**270**	**240**
	11/11/2021	18.20	**170**	**20**	**410**	**87**	**94**

See Notes on Page 3.

Table 2
Groundwater Analytical Data for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
MWF2	12/13/2011	9.74	**81**	**7.3**	**420**	**420**	**290**
	6/28/2012	9.45	**36**	4.5	**730**	**570**	**380**
	12/11/2012	8.90	**390**	**19**	**800**	**730**	**470**
	8/25/2015	8.97	**44**	**5.4 J**	**660**	**610**	**420**
	4/27/2016	9.22	**100**	**6.1**	**500**	**430**	**310**
	12/20/2016	9.39	**100**	ND < 20	**3000**	**2200**	**1200**
	3/29/2017	9.29	**37 J**	ND < 20	**420**	**380**	**310**
	12/19/2017	8.88	**14**	3.5 J	**320**	**200**	**190**
	10/24/2018	9.03	**23**	ND < 5.1	**190**	**230**	**180**
	12/18/2018	8.8	**16**	ND < 5.1	**140**	**220**	**190**
	6/12/2019	9.68	**26**	ND < 5.1	**570**	**230**	**310**
	11/18/2019	8.78	NS**	NS**	NS**	NS**	NS**
	9/3/2020	9.12	NS**	NS**	NS**	NS**	NS**
	12/10/2020	8.86	**11**	ND < 5.1	**260**	**200**	**240**
	9/2/2021	9.15	**25**	ND < 10	**490**	**310**	**280**
	11/11/2021	8.46	**44**	ND < 13	**1100**	**690**	**550**
MWF3	12/13/2011	4.92	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	6/28/2012	6.00	0.37	ND < 0.20	ND < 0.20	0.13	1.1
	12/11/2012	4.80	0.26	0.35	1.6	2	1.5
	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	5.16	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2016	5.01	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	12.19	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	5.54	ND < 0.090	ND < 0.25	ND < 0.30	0.28 J	0.76 J
	10/24/2018	5.51	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	12/18/2018	4.55	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	6/12/2019	4.32	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	11/18/2019	4.9	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2020	5.43	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	12/9/2020	4.62	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	9/2/2021	5.00	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	11/11/2021	4.97	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
MWF4	12/13/2011	16.47	**64**	2.1	**84**	**16**	**54**
	6/28/2012	15.96	**90**	2.9	**120**	**19**	**73**
	12/11/2012	15.45	**100**	4.2	**200**	**38**	**99**
	8/25/2015	15.51	**76**	ND < 2.6	**72**	**11**	**56**
	4/27/2016	15.88	**53**	ND < 2.6	**51**	**11**	**49**
	12/20/2016	15.77	**69**	2.1	**82**	**13**	**59**
	3/29/2017	16.01	**75**	2.4	**91**	**13**	**63**
	12/19/2017	16.14	**83**	3.1	**110**	**14**	**75**
	10/23/2018	14.87	**67**	2.7 J	**120**	**13**	**61**
	12/17/2018	15.52	**81**	3.9 J	**160 F1**	**24**	**89**
	6/12/2019	15.5	**92**	4.7	**240**	**34**	**120**
	11/18/2019	14.92	**53**	2.4 J	**100**	**18**	**70**
	9/3/2020	15.5	NS**	NS**	NS**	NS**	NS**
	12/10/2020	15.23	**64**	2.3 J	**95**	**13**	**69**
	9/2/2021	15.3	**49**	ND < 4.0	**48**	**8.6**	**44**
	11/11/2021	15.24	**43**	ND < 2.0	**54**	**9.5**	**48**
MWS2	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	NM	NS	NS	NS	NS	NS
	12/21/2016	18.95	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	17.99	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	11.98	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/24/2018	11.24	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	10.79	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	6/12/2019	10.66	NS	NS	NS	NS	NS
	11/18/2019	10.57	NS	NS	NS	NS	NS
	9/2/2021	11.2	NS	NS	NS	NS	NS
	11/10/2021	10.7	NS	NS	NS	NS	NS

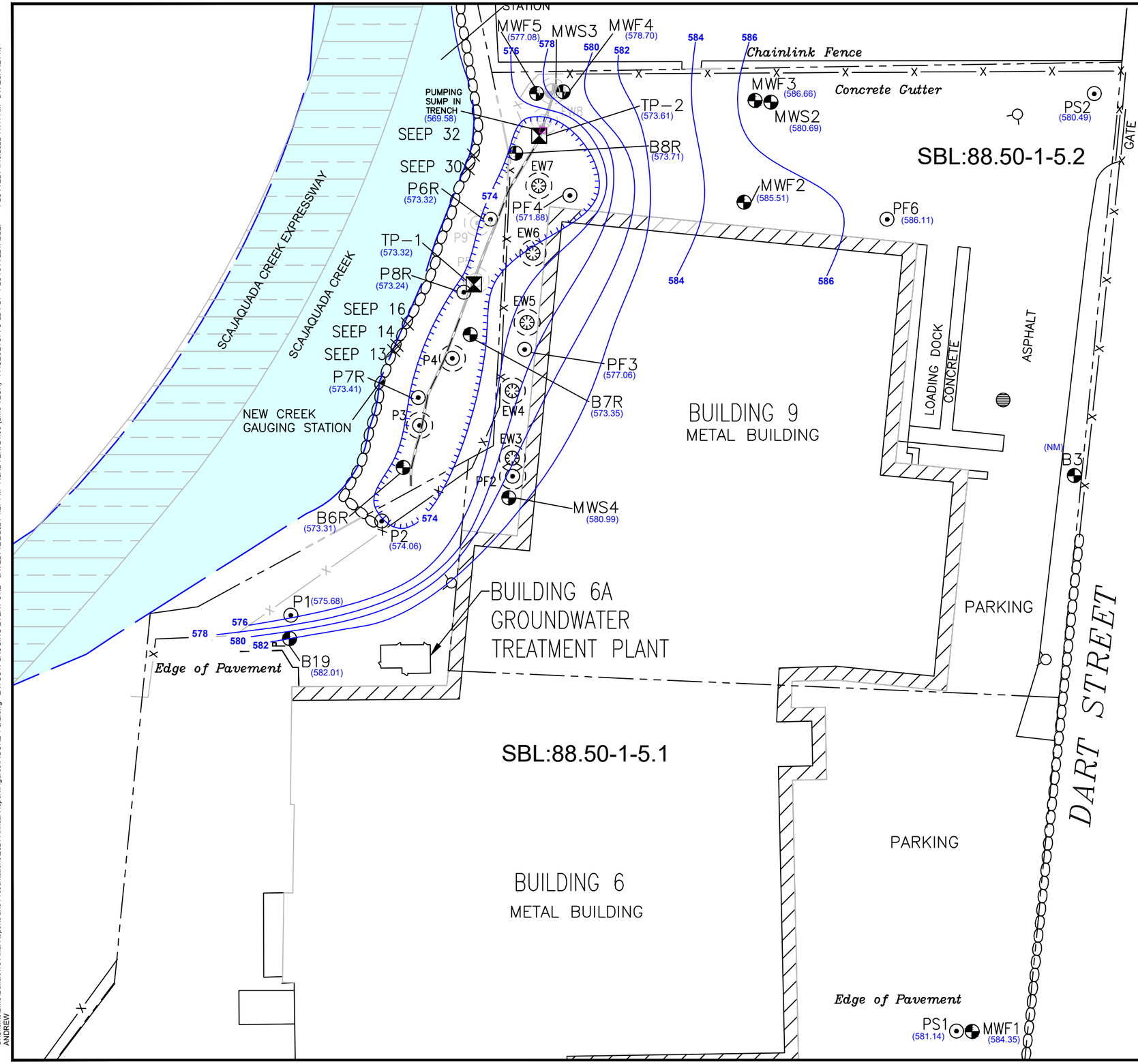
See Notes on Page 3.

Table 2
Groundwater Analytical Data for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
PS1	12/13/2011	11.02	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	NM
	6/28/2012	11.57	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	NM
	12/11/2012	11.37	0.078	0.1	0.075	ND < 0.40	NM
	8/25/2015	10.03	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	NM
	4/27/2016	11.19	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/22/2016	12.72	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/29/2017	11.52	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	12.89	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/23/2018	11.54	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	10.48	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	6/12/2019	10.72	NS	NS	NS	NS	NS
	11/18/2019	10.30	NS	NS	NS	NS	NS
	9/3/2020	12.27	NS	NS	NS	NS	NS
	12/9/2020	18.79	NS	NS	NS	NS	NS
	9/2/2021	11.75	NS	NS	NS	NS	NS
	11/10/2021	11.01	NS	NS	NS	NS	NS
P5*	8/25/2015	18.15	**84**	2.7 J	**300**	**10**	NM
	4/27/2016	18.59	**14**	ND < 2.6	**150**	**8.9 J**	**36**
	12/21/2016	18.5	**120**	ND < 10	**950**	**45**	**250**
	3/29/2017	18.82	**5.4**	ND < 1.0	**74**	**5**	**20**
	12/20/2017	NM*	NS*	NS*	NS*	NS*	NS*
P8R	6/12/2019	17.13	**130**	**5.5**	**240**	**22**	**54**
	11/18/2019	17.25	**200**	**5.8**	**380**	**21**	**69**
	9/3/2020	17.86	**160**	**6.7**	**260**	**31**	**64**
	12/10/2020	17.54	**150**	4.2 J	**270**	**16**	**76**
	9/2/2021	18.04	**180**	**9.6 F1**	**130 F1**	**31**	**40**
	11/11/2021	17.75	**210**	**14**	**230**	**47**	**80**

Notes:
µg/L = micrograms per liter
ft = feet
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
ND = non detect (value shown is the method detection limit)
NM = not measured
NS = not sampled
F1 = MS and/or MSD Recovery is outside acceptable limits.
TOGS = Technical and Operational Guidance Services
Bolded analytical data represents results above NYSDEC TOGS 1.1.1 Standards.
* Well abandoned
**Well not sampled due to NAPL observed during gauging.



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- 580 ——— 580 GROUNDWATER CONTOUR
- (580.00) GROUNDWATER ELEVATION (FT)
- (NM) NOT MEASURED

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

0 100' 200'

GRAPHIC SCALE

FORMER IROQUOIS GAS/WESTWOOD PHARMACEUTICAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK

GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 2, 2021

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PM/TM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
G:\Clients\BMS\Buffalo\10 Final Reports and Presentations\2021 Annual Report\Figures\FIGURE 1 & 2.dwg LAYOUT: GAUGING EVENT ONE SAVED: 12/2/2021 4:27 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE: --- PLOTTED: 1/13/2022 11:41 AM BY: ZOANETTI, ANDREW

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
G:\Clients\BMS\Buffalo\10 Final Reports and Presentations\2021 Annual Report\Figures\FIGURE 1 & 2.dwg LAYOUT: GAUGING EVENT TWO SAVED: 12/2/2021 4:27 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE: ---- PLOTTED: 1/13/2022 12:58 PM BY: ZOANETTI, ANDREW

STATION

MWF5 (576.35)

MWS3

MWF4 (578.76)

Chainlink Fence

MWF3 (586.69)

Concrete Gutter

MWS2 (581.19)

PS2 (581.00)

GATE

SBL:88.50-1-5.2

PUMPING SUMP IN TRENCH (570.96)

TP-2 (573.92)

B8R (573.96)

SEEP 32

SEEP 30

P6R (573.55)

EW7

PF4 (572.69)

MWF2 (586.20)

PF6 (586.95)

EW6

TP-1 (573.59)

P8R (573.53)

SEEP 16

SEEP 14

SEEP 13

EW5

PF3 (577.58)

P4

P7R (573.79)

B7R (573.55)

NEW CREEK GAUGING STATION

P3

EW4

EW3

PF2

MWS4 (581.43)

B6R (573.65)

P2 (573.98)

P1 (575.98)

SCAJAQUADA CREEK EXPRESSWAY

SCAJAQUADA CREEK

BUILDING 9
METAL BUILDING

LOADING DOCK CONCRETE

ASPHALT

(NM) B3

BUILDING 6A
GROUNDWATER
TREATMENT PLANT

PARKING

B19 (581.87)

Edge of Pavement

SBL:88.50-1-5.1

BUILDING 6
METAL BUILDING

PARKING

DART STREET

Edge of Pavement

PS1 (581.88)

MWF1 (584.77)

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- 580 —— 580 GROUNDWATER CONTOUR
- (580.00) GROUNDWATER ELEVATION (FT)
- (NM) NOT MEASURED

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

0 100' 200'

GRAPHIC SCALE

FORMER IROQUOIS GAS/WESTWOOD PHARMACEUTICAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK

GROUNDWATER ELEVATION CONTOUR MAP NOVEMBER 10, 2021

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PM/TM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
G:\Clients\BMS\Buffalo\10 Final Reports and Presentations\2021 Annual Report\Figures\FIGURE 3 & 4.dwg LAYOUT: SAMPLING EVENT ONE SAVED: 9/21/2021 8:58 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE: ---- PLOTTED: 11/29/2021 11:39 AM BY: ZOANETTI, ANDREW

B8R	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	580
TOLUENE	64
ETHYLBENZENE	950
m,p-XYLENE	270
o-XYLENE	240

P8R	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	180
TOLUENE	9.6 F1
ETHYLBENZENE	130 F1
m,p-XYLENE	31
o-XYLENE	40

B7R	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	32
TOLUENE	ND < 2.0
ETHYLBENZENE	ND < 2.0
m,p-XYLENE	ND < 4.0
o-XYLENE	ND < 2.0

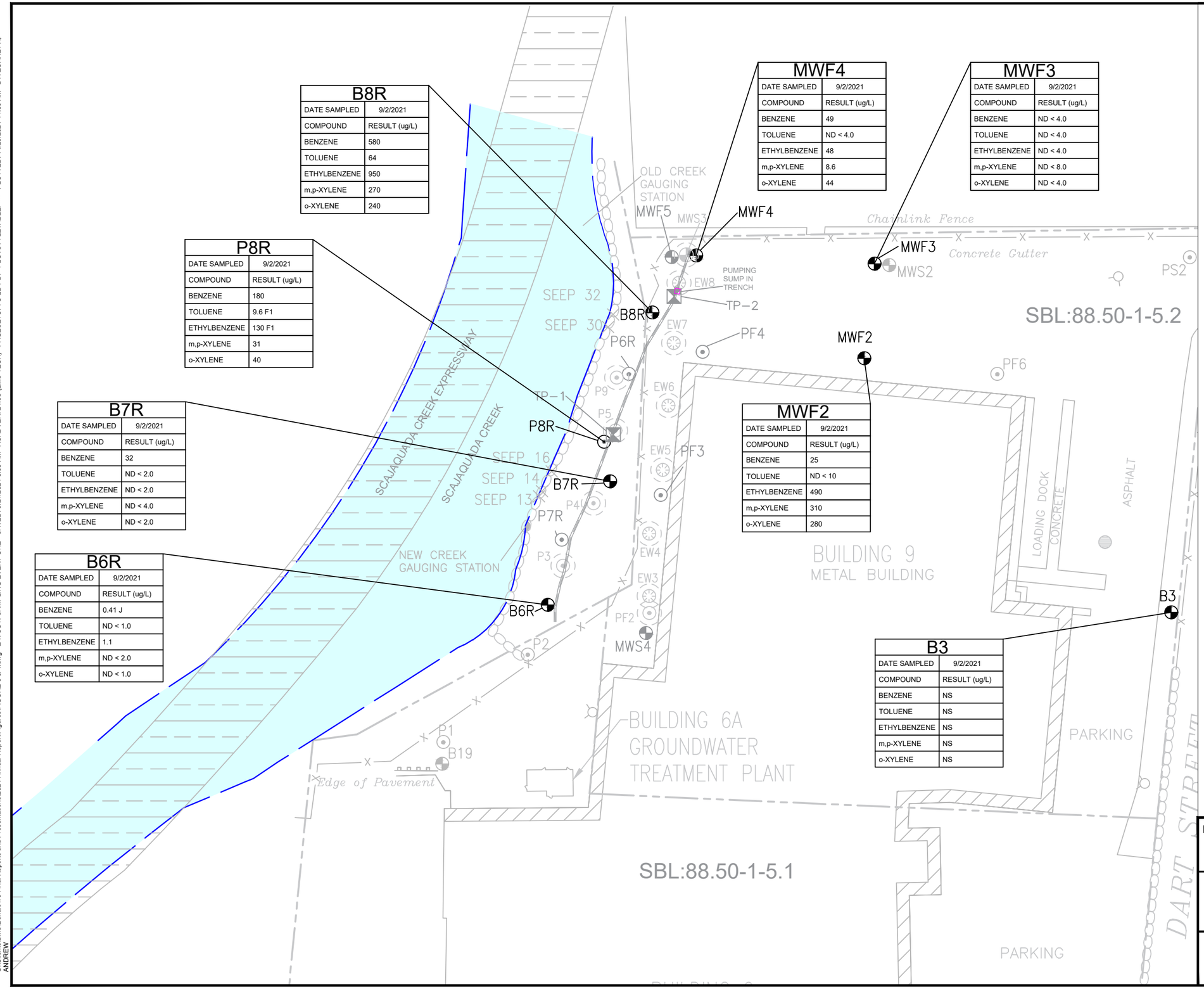
B6R	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	0.41 J
TOLUENE	ND < 1.0
ETHYLBENZENE	1.1
m,p-XYLENE	ND < 2.0
o-XYLENE	ND < 1.0

MWF4	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	49
TOLUENE	ND < 4.0
ETHYLBENZENE	48
m,p-XYLENE	8.6
o-XYLENE	44

MWF3	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	ND < 4.0
TOLUENE	ND < 4.0
ETHYLBENZENE	ND < 4.0
m,p-XYLENE	ND < 8.0
o-XYLENE	ND < 4.0

MWF2	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	25
TOLUENE	ND < 10
ETHYLBENZENE	490
m,p-XYLENE	310
o-XYLENE	280

B3	
DATE SAMPLED	9/2/2021
COMPOUND	RESULT (ug/L)
BENZENE	NS
TOLUENE	NS
ETHYLBENZENE	NS
m,p-XYLENE	NS
o-XYLENE	NS



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- NS — NOT SAMPLED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- F1 — MS AND/OR MSD RECOVERY IS OUTSIDE ACCEPTABLE LIMITS

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

0 75 150

GRAPHIC SCALE

FORMER IROQUOIS GAS/WESTWOOD PHARMACEUTICAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK

VOC CONCENTRATIONS SEPTEMBER 2, 2021

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

B8R	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	170
TOLUENE	20
ETHYLBENZENE	410
m,p-XYLENE	87
o-XYLENE	94

P8R	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	210
TOLUENE	14
ETHYLBENZENE	230
m,p-XYLENE	47
o-XYLENE	80

B7R	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	22
TOLUENE	ND < 1.0
ETHYLBENZENE	1.5 J
m,p-XYLENE	ND < 1.3
o-XYLENE	ND < 1.5

B6R	
DATE SAMPLED	11/10/2021
COMPOUND	RESULT ug/L
BENZENE	ND < 0.41 F1
TOLUENE	ND < 0.51 F1
ETHYLBENZENE	ND < 0.74 F1
m,p-XYLENE	ND < 0.66 F1
o-XYLENE	ND < 0.76

MWF4	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	43
TOLUENE	ND < 2.0
ETHYLBENZENE	54
m,p-XYLENE	9.5
o-XYLENE	48

MWF3	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	ND < 1.6
TOLUENE	ND < 2.0
ETHYLBENZENE	ND < 3.0
m,p-XYLENE	ND < 2.6
o-XYLENE	ND < 3.0

MWF2	
DATE SAMPLED	11/11/2021
COMPOUND	RESULT ug/L
BENZENE	44
TOLUENE	ND < 13
ETHYLBENZENE	1100
m,p-XYLENE	690
o-XYLENE	550

B3	
DATE SAMPLED	11/10/2021
COMPOUND	RESULT ug/L
BENZENE	NS
TOLUENE	NS
ETHYLBENZENE	NS
m,p-XYLENE	NS
o-XYLENE	NS

OLD CREEK GAUGING STATION
MWF5
MWS3
MWF4
Chainlink Fence
MWF3
Concrete Gutter
MWS2
PS2
PUMPING SUMP IN TRENCH
EW8
TP-2
SEEP 32
SEEP 30
B8R
EW7
P6R
PF4
MWF2
SBL:88.50-1-5.2
PF6
SCAJAQUADA CREEK EXPRESSWAY
SCAJAQUADA CREEK
TP-1
P9
EW6
P5
P8R
SEEP 16
SEEP 14
B7R
SEEP 13
EW5
PF3
P4
P7R
P3
EW4
EW3
NEW CREEK GAUGING STATION
PF2
MWS4
BUILDING 9
METAL BUILDING
LOADING DOCK
CONCRETE
ASPHALT
B3
B6R
P2
P1
B19
BUILDING 6A
GROUNDWATER
TREATMENT PLANT
PARKING
Edge of Pavement
SBL:88.50-1-5.1
PARKING
DART STREET

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- NS — NOT SAMPLED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- F1 — MS AND/OR MSD RECOVERY IS OUTSIDE ACCEPTABLE LIMITS

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

0 75 150
GRAPHIC SCALE

FORMER IROQUOIS GAS/WESTWOOD PHARMACEUTICAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK

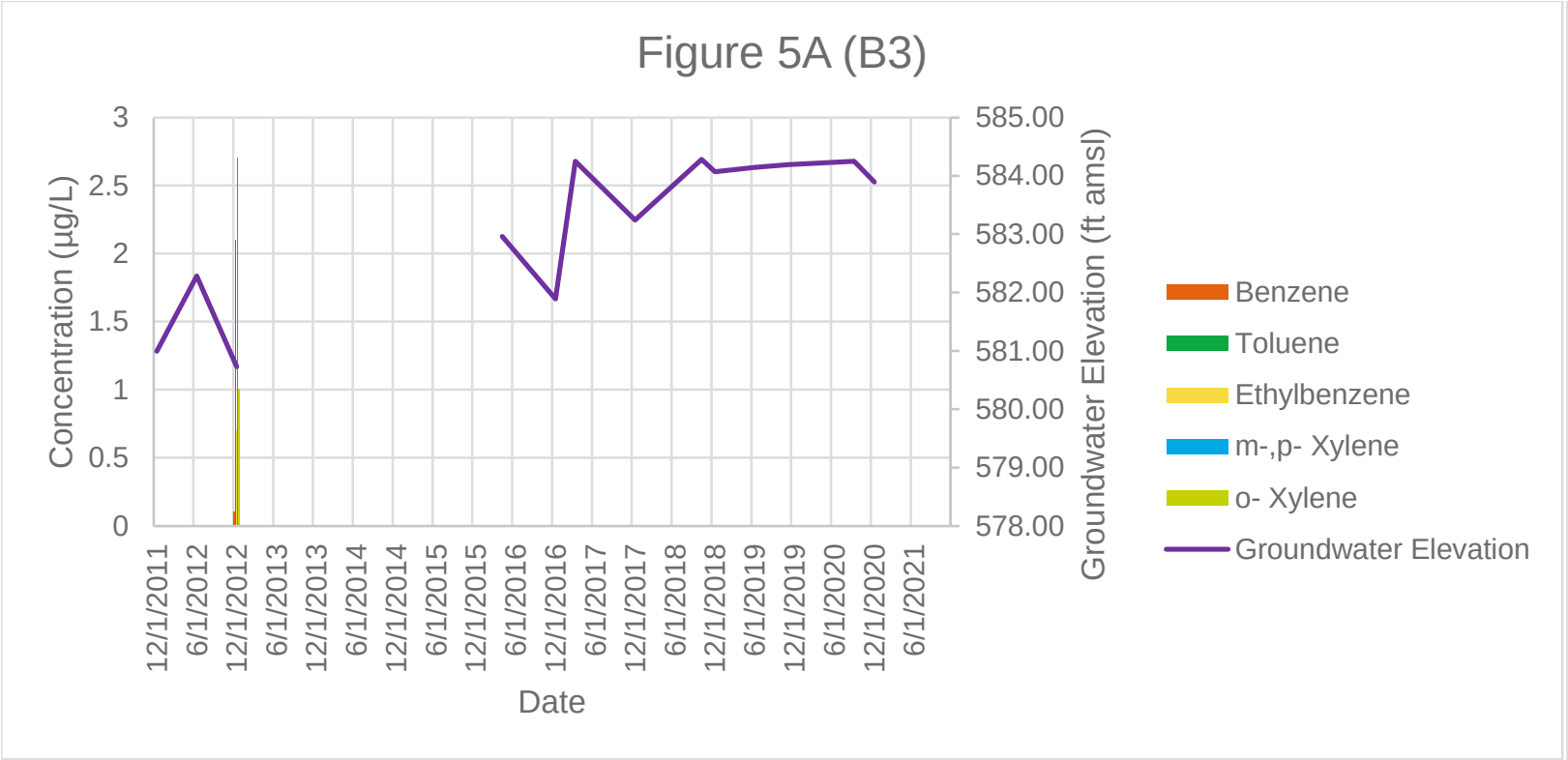
VOC CONCENTRATIONS NOVEMBER 10-11, 2021

ARCADIS Design & Consultancy for natural and built assets

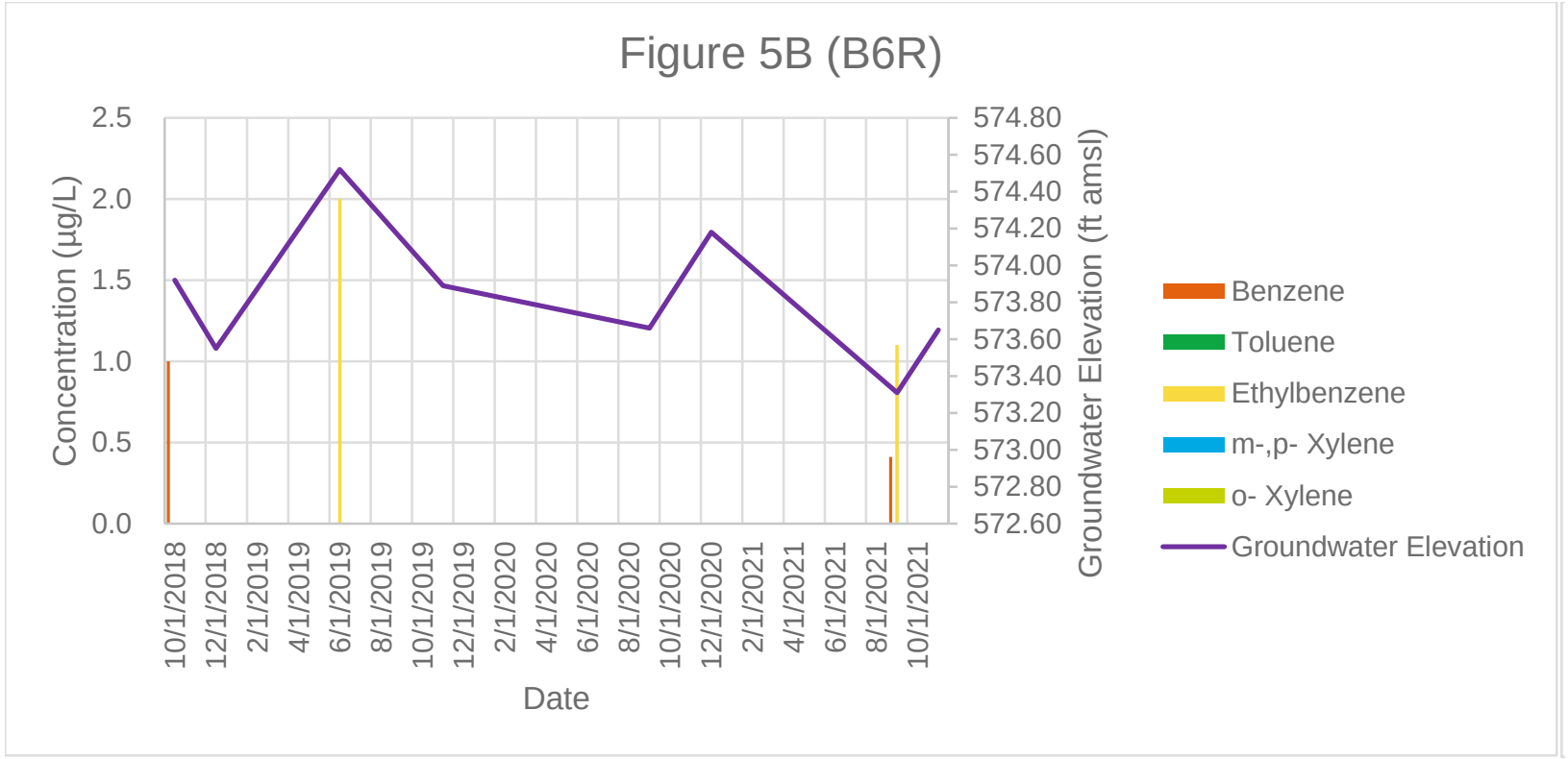
FIGURE 4

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PM/TM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
G:\Clients\BMS\Buffalo\10 Final Reports and Presentations\2021 Annual Report\Figures\FIGURE 3 & 4.dwg LAYOUT: SAMPLING EVENT TWO SAVED: 9/21/2021 8:58 AM ACADVER: 21.0S (LMS TECH) PAGESETUP:-- PLOTSTYLETABLE:---- PLOTTED: 11/29/2021 11:40 AM BY: ZOANETTI, ANDREW

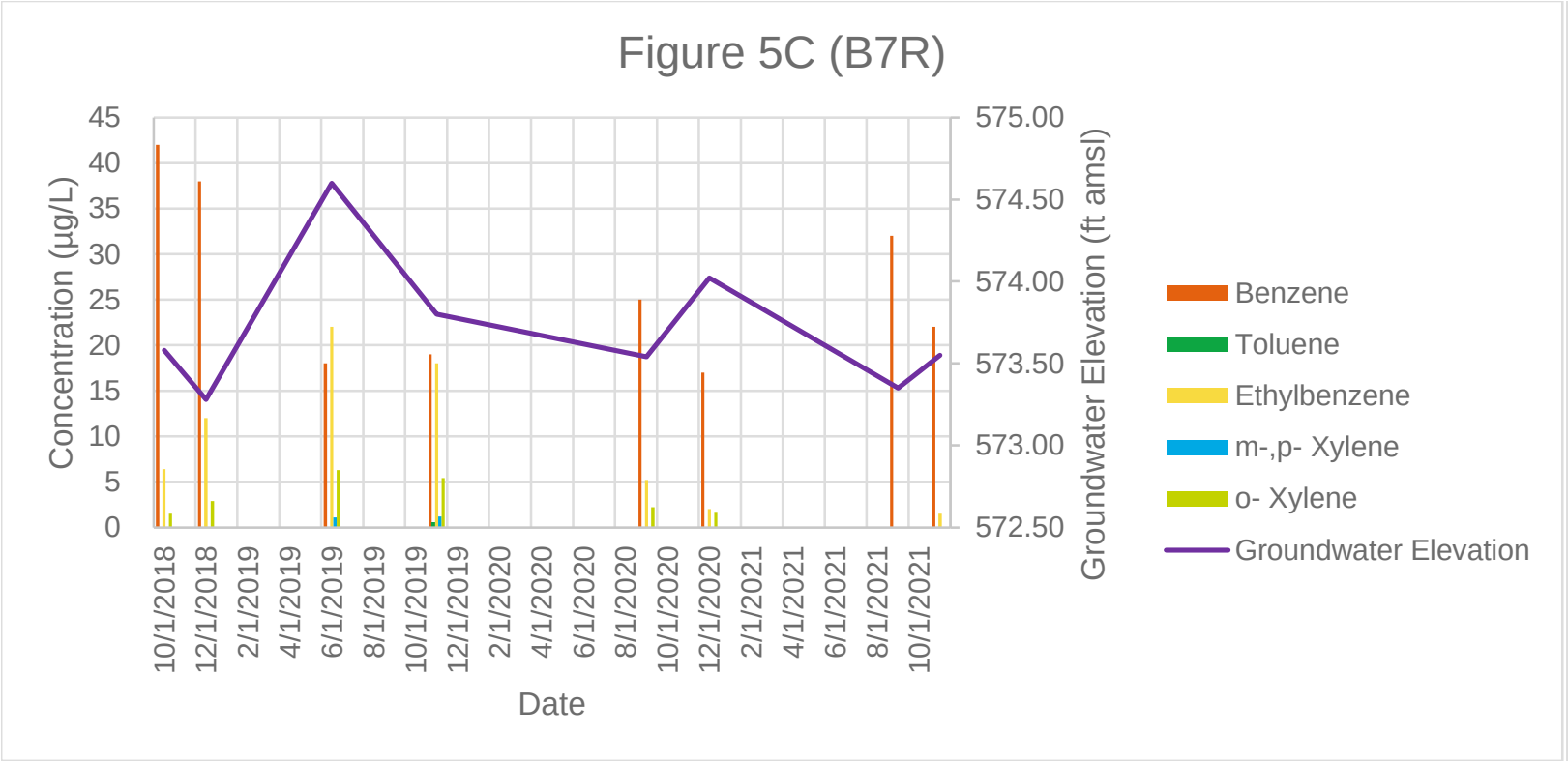
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Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



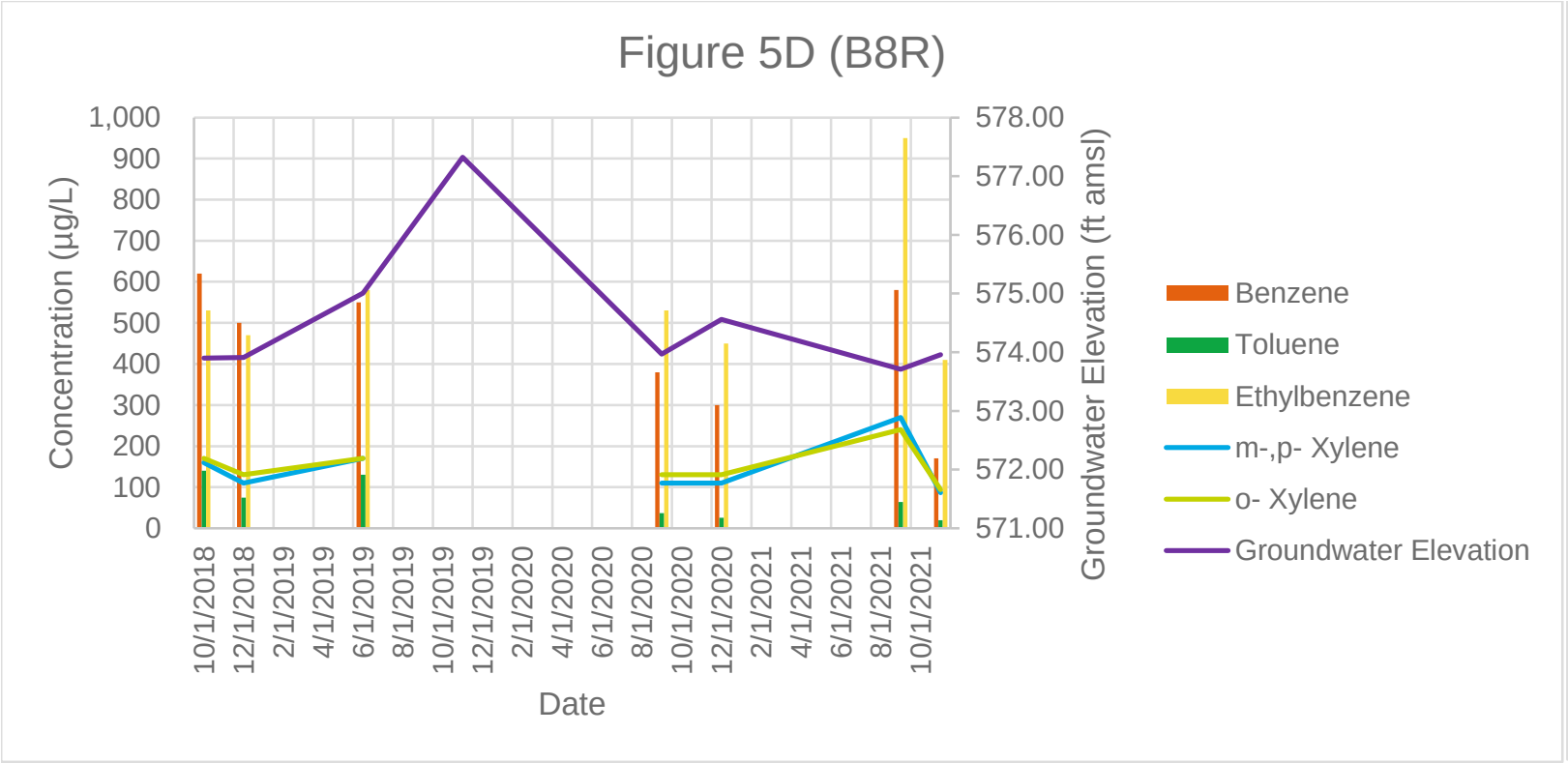
Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



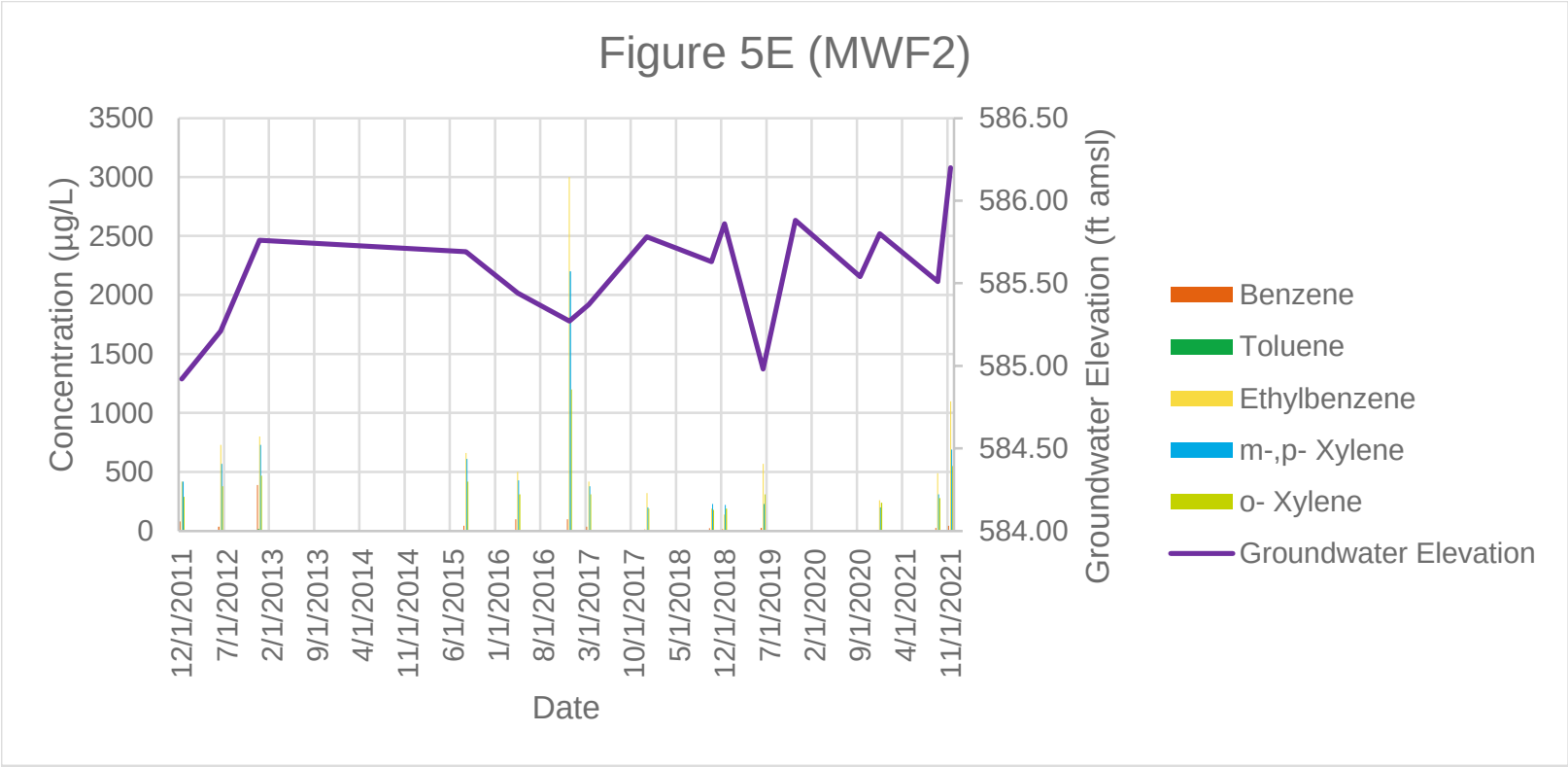
Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



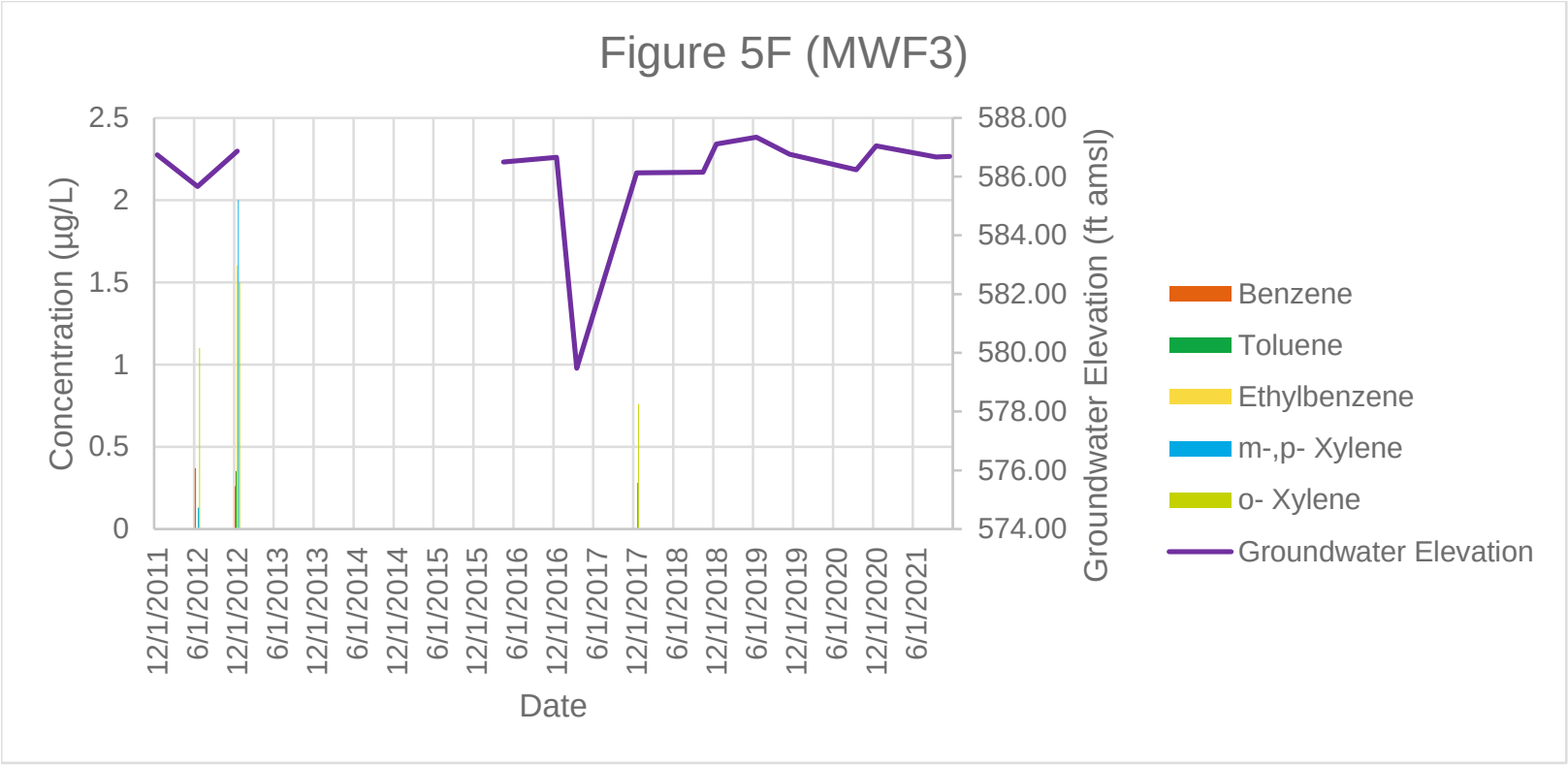
Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



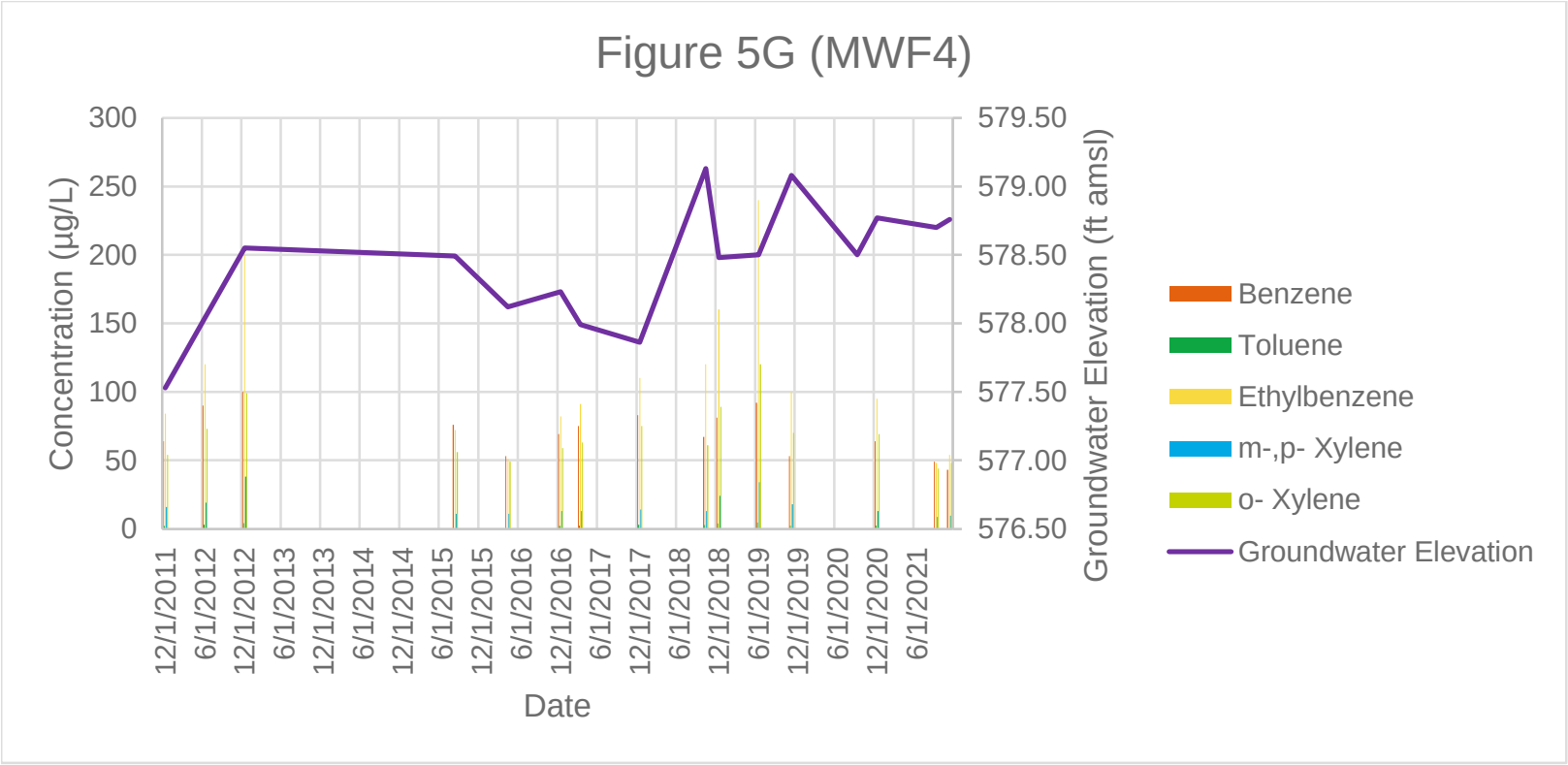
Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York



Groundwater Analytical Data Trends for VOCs
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, New York

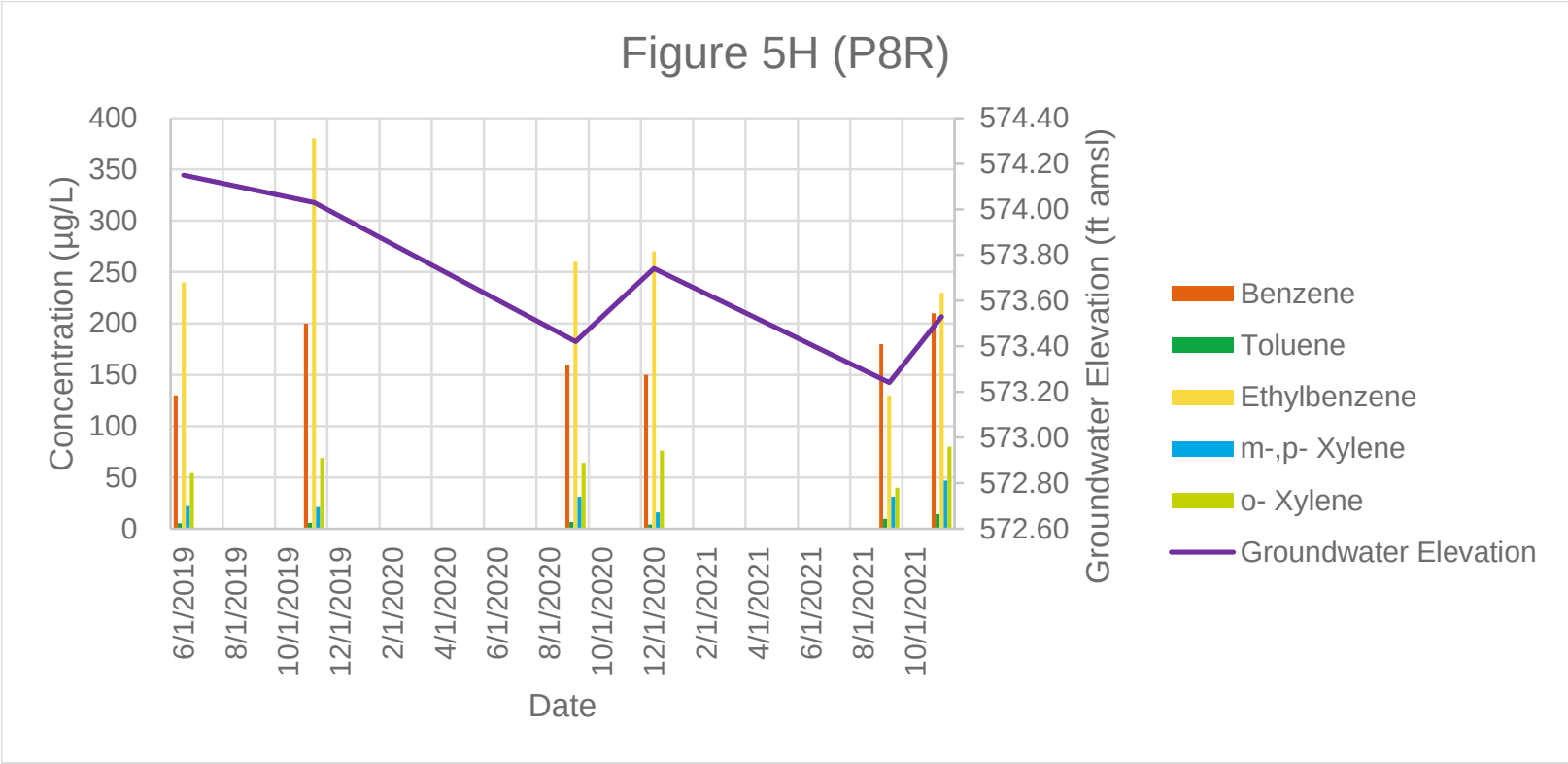
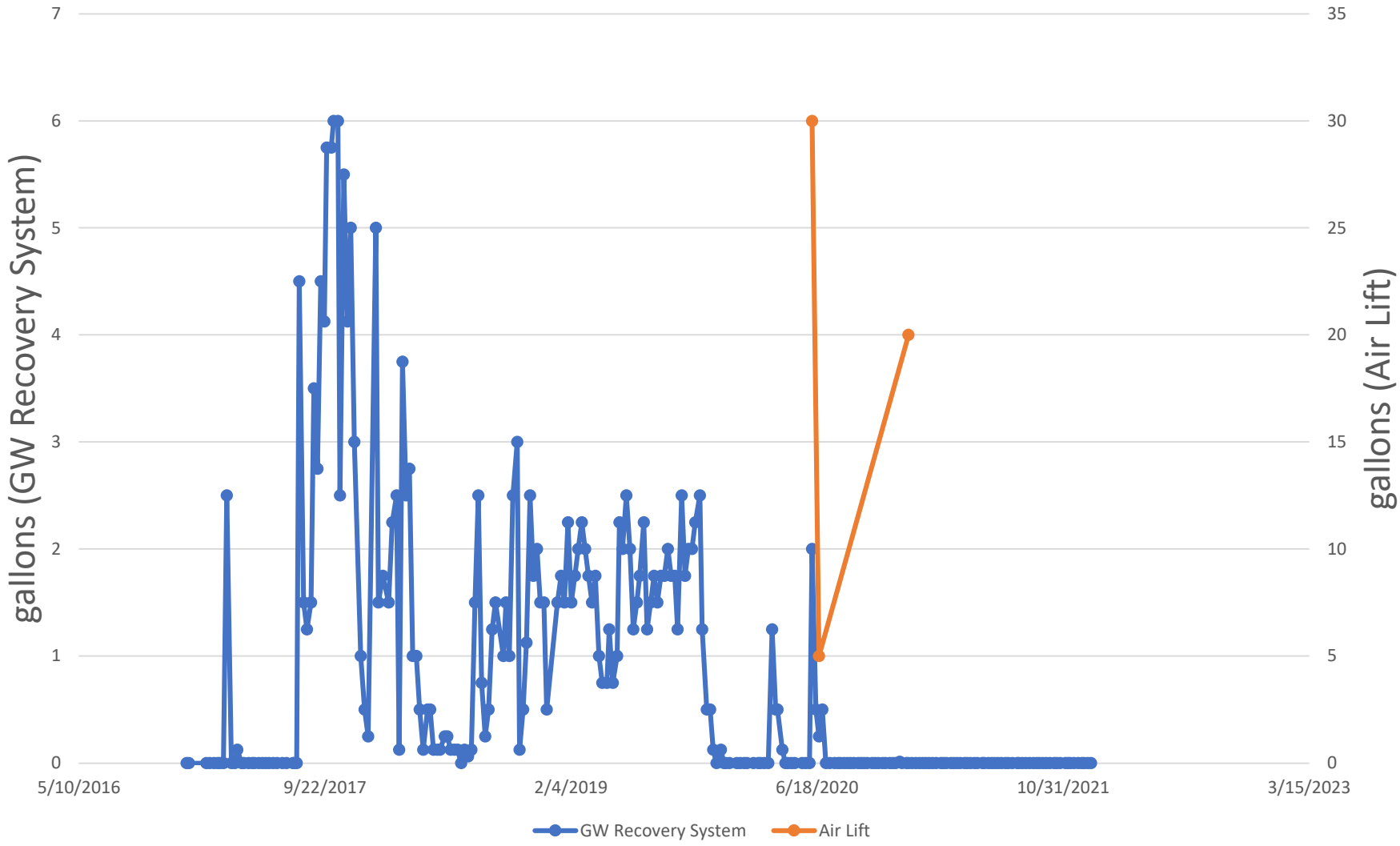


Figure 6
NAPL Recovery
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY



Appendix C

Creek and Sheet Pile Wall Inspections

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 4/26/2021

Weather: 47°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 4/26/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 4/26/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 5/24/2021

Weather: 60°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 5/24/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 5/24/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 6/21/2021

Weather: 77°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 6/21/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 6/21/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 7/30/2021

Weather: 68°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 7/30/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 7/30/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 8/24/2021

Weather: 81°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 8/24/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 8/24/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 9/1/2021

Weather: 70°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 9/1/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 9/1/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 10/25/2021

Weather: 52°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 10/25/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 10/25/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 11/15/2021

Weather: 36°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 11/15/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 11/15/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 12/13/2021

Weather: 43°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 12/13/2021

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 12/13/2021

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 1/25/2022

Weather: 24°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 1/25/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 1/25/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 2/21/2022

Weather: 37°F, partly sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 2/21/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 2/21/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 3/21/2022

Weather: 40°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 3/21/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 3/21/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 4/25/2022

Weather: 72°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 4/25/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 4/25/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 5/23/2022

Weather: 54°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 5/23/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 5/23/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 6/6/2022

Weather: 72°F, clouds/sun

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 6/6/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 6/6/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 7/18/2022

Weather: 72°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 7/18/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 7/18/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 8/18/2022

Weather: 83°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 8/18/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 8/18/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 9/19/2022

Weather: 72°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 9/19/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 9/19/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 10/11/2022

Weather: 53°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 10/11/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 10/11/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 11/8/2022

Weather: 43°F, sunny

Personnel: Jason Gutkowski / Don Reed

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 11/8/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 11/8/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 12/14/2022

Weather: 27°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 12/14/2022

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 12/14/2022

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 1/24/2023

Weather: 33°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 1/24/2023

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 1/24/2023

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 2/20/2023

Weather: 40°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 2/20/2023

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 2/20/2023

Appendix D

Waste Manifest

TK 11

DOCUMENT 5838

abscope environmental, inc.
7086 Commercial Drive
PO Box 487
Canastota, NY 13032
(315) 697-8437
FAX (315) 697-9391

AEI JOB NO. 22831

NYSDEC 364 Permit No. 7A - 369

STRAIGHT BILL OF LADING

TRANSPORTER 1 ABSCOPE ENVIRONMENTAL INC.
EPA ID #
VEHICLE ID #
TRANS. 1 PHONE 315-697-8437

TRANSPORTER 2
EPA ID #
VEHICLE ID #
TRANS. 2 PHONE

DESIGNATED FACILITY	GENERATOR
HIGH ACRES LANDFILL	BRISTOL MYERS SQUIBB
FACILITY EPA ID # NYSDEC:8-9908-00162-0002	GENERATOR EPA ID # NA
ADDRESS 425 PERINTON PARKWAY	ADDRESS 140 DART STREET
CITY FAIRPORT STATE NY ZIP 14450	CITY BUFFALO STATE NY ZIP 13213

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIAL	TOTAL QUANTITY	UNIT WT/VOL
	DT		A. Non Hazardous Debris impacted with Coal Tar	1.5	TONS
			B.		
			C. Profile#125546NY		
			D.		
			E.		
			F.		

SPECIAL HANDLING INSTRUCTIONS
EMERGENCY CONTACT: 1-800-424-9300 CHEMTREC

TIME DEPARTED SHOP_____ TIME ON SITE_____ TIME LEFT SITE_____ TIME RETURN TO SHOP_____

CUSTOMER SIGNATURE _____

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Jason Gothowski	Dan Gutt	11/8/22
TRANSPORTER 1	Mark Fawcett	Mark Fawcett	11-8-22
TRANSPORTER 2			
RECEIVED BY	Noah Teeter	Noah Teeter	11/8/22

WHITE - OFFICE YELLOW - OFFICE PINK - TSDF GOLD - GENERATOR

Waste Management High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Reprint
Ticket# 1506444

Customer Name	ABSCOPEENVREG-125546NY ABSCOP	Carrier	ABS ABSCOPE ENVIRONMENTAL		
Ticket Date	11/08/2022	Vehicle#	HTK11	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0008506		
State Waste Code		Gen EPA ID			
Manifest	NA	Grid	CELL 13A		
Destination					
PO	22831				
Profile	125546NY (Non Hazardous Debris impacted with Coal Tar)				
Generator	190-BRISTOLMYERSSQUIBB120DART BRISTOL MYERS SQUIBB				

	Time	Scale	Operator	Inbound	Gross	39140 lb
In	11/08/2022 14:08	A_Scale_1	SD #604682		Tare	37540 lb
Out	11/08/2022 14:54	B_Scale_2	Noah Teeter		Net	1600 lb
					Tons	0.80

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	C&D INDUSTRIAL-Ton	100	0.80	Tons				ERI
2	EVF-P-Standard Env	100		%				ERI
3	RCR-P-Regulatory C	100		%				ERI

Total Fees

Total Ticket

Driver`s Signature_____

Attachment 1

Air Lift Memo

MEMO

To:
Richard L. Mator, BMS

From:
Raymond Wagner

Date:
September 18, 2020

Copies:
John Alonzo, BMS
Vin Maresco, Arcadis
Gary Wrobleski, Arcadis
Pete Greer, Arcadis
Andrew Zoanetti, Arcadis

Arcadis Project No.:
30049063

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Tel 315 446 9120
Fax 315 449 0017

Subject:
DNAPL Air Lift Recovery Efforts
Former Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Introduction and History

This document provides a summary of additional procedures taken in 2019 and 2020 to recover DNAPL in the interceptor trench collection sump at the Former Iroquois Gas/Westwood Pharmaceuticals Site located at120 Dart Street and 40 Bradley Street, Buffalo, New York.

Background

In 2017 an interceptor trench was constructed to increase the capture of NAPL and impacted groundwater. This trench was effective and as a result the NAPL was captured in the collection sump (**Photo 1**). The collection sump pump was effective in removing the normal loading of water with some DNAPL, however, the increased effectiveness of the interceptor trench in capturing more viscous DNAPL coal tar recently lead to pump operational difficulties due to the viscosity of the DNAPL.



Photo 1 – Interceptor Trench Collection Sump

In late November 2019, the QED AP4+T Long Pumps in the collection sump began to have intermittent clogging due to high viscosity DNAPL. After some investigation, it was discovered there was several feet of high viscosity coal tar based DNAPL in the sump. Two pumps were replaced over the next few months that were not able to be repaired or cleaned to restore operation (**Photo 2**). When the QED AP4 pumps began having issues, the pump intake was at 25.58 ft from the top of the sump. The water level was approximately 20 ft from top of the sump, medium viscous DNAPL at 22 ft to 27 ft, and high viscous DNAPL from 27 ft to the well bottom at 30.58 ft. The pumps were also raised to 23 ft from the top of the sump to avoid clogging while a solution was found.



Photo 2 – Disassembled AP4+T Pump

An analysis of alternative pumping options was completed to evaluate methods to remove the viscous DNAPL and is summarized in **Table 1**.

The Arcadis project team reviewed and evaluated DNAPL removal and alternative pumping methods and determined the most cost-effective options are pump replacement or air lift removal. The main issues to overcome were the viscous nature of the DNAPL and the 30 ft of head to lift/pump the fluid up to a recovery tank. A plan of action to test the effectiveness of the air lift method to remove the DNAPL from the well was decided upon in April 2020, but field implementation was slowed due to the COVID-19 restrictions.

Table 1. DNAPL Recovery Cost/Benefit Analysis

Option	Equipment Cost	DNAPL Collection Rate	Additional Costs	Benefits	Disadvantages
QED Eliminator bladder pump	$3,200 (with controller)	6 gpm max (less for high viscosity)	1. New underground discharge line. 2. New DNAPL storage.	1. Operates on available compressed air. 2. Air isolated from DNAPL.	1. Low flow rate. 2. Unknown viscosity limit.
QED AP4+ High Viscosity model	$3,100 (with controller)	6.4 gpm max (less for high viscosity)	1. New underground discharge line. 2. New DNAPL storage.	1. Simple installation – replace existing similar pump. 2. Operates on available compressed air.	1. Limited to 7,000 cSt viscosity. 2. Flow when pumping water is higher than when pumping NAPL.
QED Pulse pump LP1301	$2,180 (with controller)	2 gpm (less for high viscosity)	1. New underground discharge line. 2. New DNAPL storage.	1. Recommended by QED. 2. Set times between cycles.	1. Low flow rate. 2. Unknown viscosity limit.
Xitech DNAPL recovery pump ADJ1100	$2,125	1 gph - 60 gph	1. New underground discharge line. 2. New DNAPL storage.	1. Operates on available compressed air. 2. Temporary pilot system available. 3. Recommend finger heater.	1. Some options may require electric power. 2. Unknown viscosity limit.
Blackhawk V-2 pneumatic piston pump model 101	$6000 - $9000	2 gpm max	1. New underground discharge line. 2. New DNAPL storage. 3. Vault redesign to fit above ground equipment. 4. Modification of wellhead.	1. Operates on available compressed air. 2. Pneumatic drive accessible above ground. 3. Air isolated from DNAPL.	1. Will not fit within confines of vault. 2. Unknown viscosity limit.
Abanaki DNAPL belt skimmer	$3,500	6 gph (4" belt)	1. Vault redesign to fit skimmer system. 2. System includes 55 gal drum to store DNAPL. 3. Electrical power to vault.	1. No down well equipment except belt.	1. Limited DNAPL storage at collection sump vault (and no containment). 2. Above ground DNAPL pump likely necessary. 3. Will not fit within confines of vault.
Periodic DNAPL collection with air lift	$500		1. Labor required for every collection event.	1. No new piping to be installed. 2. No agency approval needed.	1. Volume that may be collected at one time may be too low to be cost effective.
No changes			1. Pumps treated as wear items, require replacement at regular intervals.	1. No added components/complexity. 2. No agency approval needed.	1. Mixing DNAPL/water/LNAPL that will later be separated. 2. DNAPL leads to pump failure.

Procedures and Equipment

The air lift in principle can be explained simply as a bubble of air being forced to a certain depth and then while traveling up a hose to the surface it forces a column of water to be lifted. As multiple columns of water are lifted a venturi is created that pulls in debris from the bottom intake and pushes to the exit point of the hose above grade (**Figures 1 and 2**).

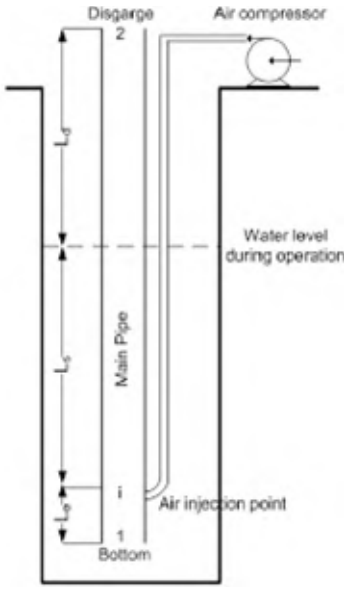


Figure 1 – Air Lift Diagram

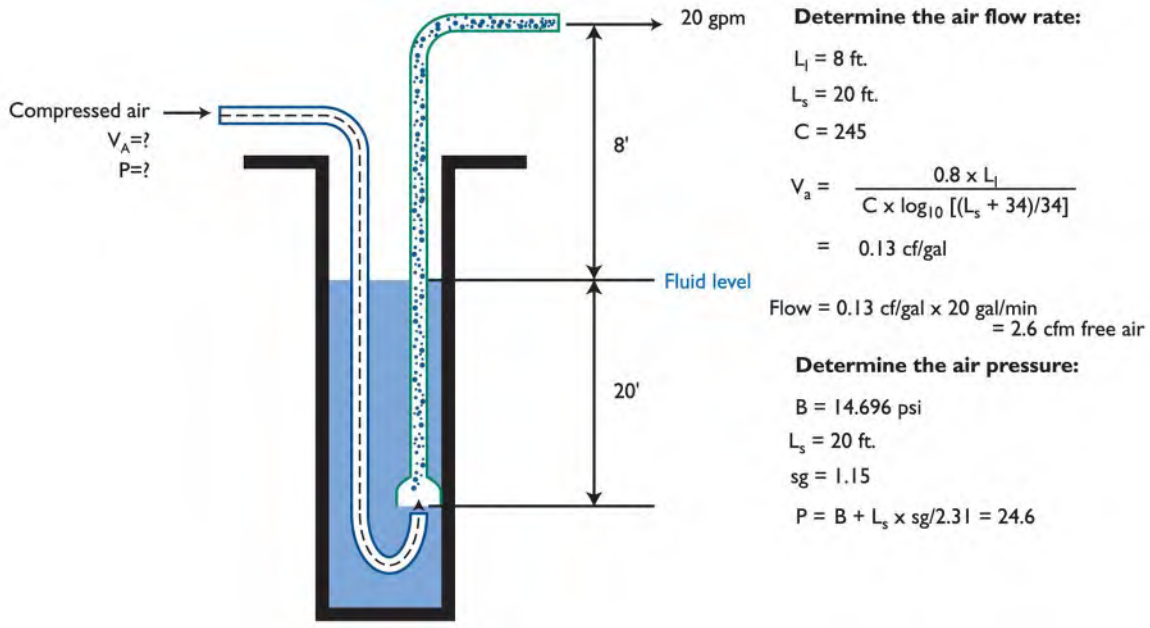


Figure 2 – Air Lift Calculations

Below is the parts list for the air lift design, that were constructed as shown in **Figure 3**:

- 1.25” suction tube
- 50’x 0.5” air line
- 6”x 0.5” PVC pipe
- One 90° 0.5” PVC elbow fitting
- One connector for 0.5” airline to PVC transition
- 50’x 1.25” hard suction line
- 3’x 1.25” Sch 80 PVC pipe
- 1.25” connector to connect PVC pipe to hard suction line
- Air regulator with gauge for 0.5” line with 0-50 psi range
- 2x 0.5” fitting to connect airline to both sides of air regulator
- Zip ties (18”)
- Connector to attached 0.5” airline to well vault air supply

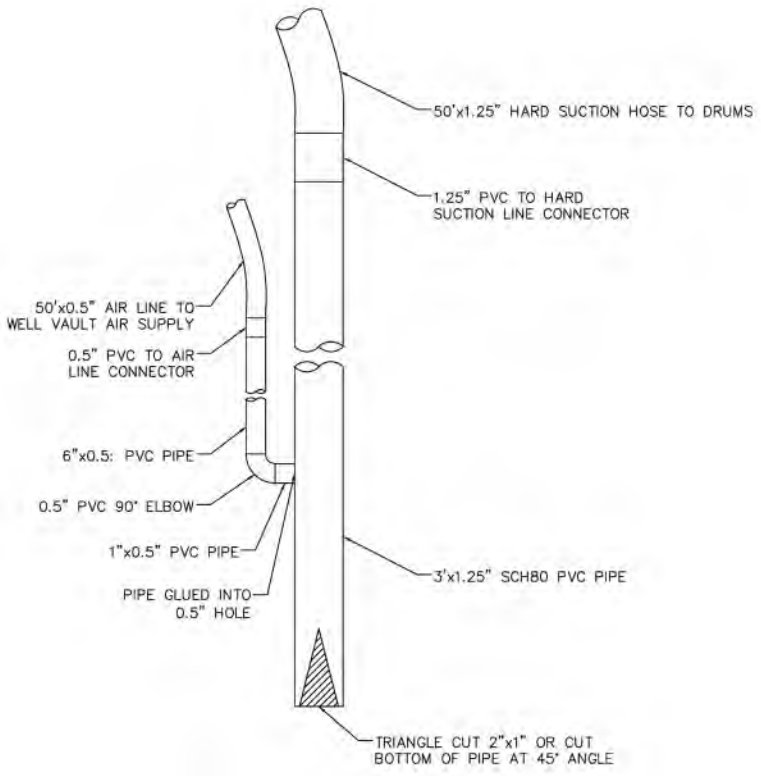


Figure 3 – Air Lift Assembly

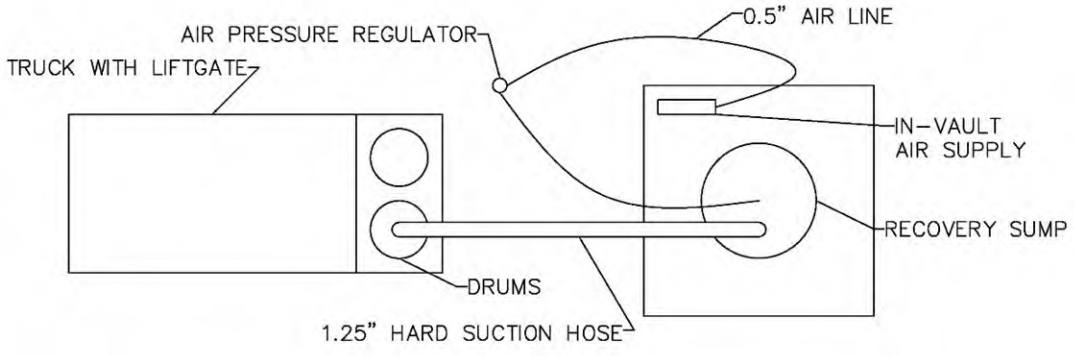


Figure 4 – Air Lift Equipment Setup

DNAPL Removal and Recovery

On June 8, 2020 the first air lift operation was performed. Approximately 30 gallons of coal tar was recovered with very little water over 5 hours. The viscosity of the coal tar ranged from maple syrup (~144 centipoise [cp]) to honey (~2,000 cp). The air pressure was set at 90 psi to start the air lift and was stabilized at 30 psi to maintain the air lift. Prior to the lift, depth to product was 20 ft from the top of the sump. After the lift, depth to product rose to 15 ft due to the DNAPL and water layers mixing in the sump. Depth to product was measured weekly following the air lift, and a second air lift was completed on June 22, 2020. A third air lift was completed on December 21, 2020. DNAPL removal and depths to product are shown in **Table 2**. In total, 55 gallons of DNAPL has been removed from the three air lifts in 2020 to date.

Table 2. DNAPL Removal and Depths to Product

Date	DNAPL Removed (gals)	Depth to Product Before Lift (ft below top of sump)	Depth to Product After Lift (ft below top of sump)
6/8/2020	30	20	15
6/16/2020	n/a	28.5	n/a
6/22/2020	5	28.5	29.9
6/29/2020	n/a	29.9	n/a
7/6/2020	n/a	29.9	n/a
7/14/2020	n/a	28.58*	n/a
7/24/2020	n/a	28.58	n/a
7/29/2020	n/a	28.4	n/a
8/7/2020	n/a	28.3	n/a
12/21/20	20	27.5	29.2

*Increase in product thickness due to rain event.

Health and Safety Procedures

With guidance from a technical expert with experience in performing air lifts to clear wells of obstructions, all parts were assembled in the field. One team member held and monitored flow from a feeder hose into a waste collection 55-gal drum, while the second team member controlled the air pressure which drove the flow rate of the fluid. In the event of a malfunction the air would be shut off which stops all movement of liquid and drops all air pressure to zero.

Prior to the June 8, 2020 air lift, the field and management team held a meeting to discuss the appropriate safety precautions to be taken and how to protect the area of the operation to have zero environmental impact. The following health and safety measures were implemented (**Photos 3 and 4**):

1) Safety meeting to include emergency response procedures as well as reminder of WorkCare for non-emergency injuries
2) Field personnel review and understand system and emergency shutdown process
3) PPE: nitrile gloves, steel toed rubber boots, Splash resistant Tyvek suit, safety glasses, face shield
4) Use of a heavy gauge plastic to protect ground cover and stormwater runoff



Photo 3 – DNAPL Air Lift Recovery Operations



Photo 4 – DNAPL Air Lift Operations

Schedule for Ongoing Pumping Operations and DNAPL Recharge

The lower part of the air lift system is currently stored in the recovery sump and can have the upper unit and hose installed in a timely manner. Currently, DNAPL removal will be conducted on an as needed basis as level dictates. A DNAPL thickness of 3 ft is being used as a trigger for an air lift operation. Normal pumping operations will continue until another air lift is required. A new QED AP4 recovery pump designed specifically for high viscosity is being evaluated as a more permanent solution and enhancement. Such a pump would work in conjunction with the existing total fluids AP4 pump. The recharge rate of the DNAPL is being tracked to determine if occasional air lifting will be more cost effective than an addition of a permanent pump.

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