



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

May 01, 2024

Kevin Summerville
Columbiana County Health District
7360 SR 45
P.O. Box 309
Lisbon, OH 44432
TEL:
FAX:
RE: EP

Order No.: 24041506

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 10 sample(s) on 4/19/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

A handwritten signature in black ink that reads 'Holly Florea'.

Holly Florea
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Workorder
Sample Summary
 WO#: **24041506**
01-May-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24041506-001	PW-335		4/18/2024 3:25:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-001	PW-335		4/18/2024 3:25:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-001	PW-335		4/18/2024 3:25:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-001	PW-335		4/18/2024 3:25:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-002	PW-303		4/18/2024 2:15:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-002	PW-303		4/18/2024 2:15:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-002	PW-303		4/18/2024 2:15:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-002	PW-303		4/18/2024 2:15:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-003	PW-385		4/18/2024 12:30:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-003	PW-385		4/18/2024 12:30:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-003	PW-385		4/18/2024 12:30:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-003	PW-385		4/18/2024 12:30:00 PM	4/19/2024 10:50:00 AM	Drinking Water
24041506-004	PW-576		4/18/2024 11:10:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-004	PW-576		4/18/2024 11:10:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-004	PW-576		4/18/2024 11:10:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-004	PW-576		4/18/2024 11:10:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-005	PW-607 FB		4/18/2024 9:35:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-005	PW-607 FB		4/18/2024 9:35:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-005	PW-607 FB		4/18/2024 9:35:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-005	PW-607 FB		4/18/2024 9:35:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-006	PW-607		4/18/2024 9:45:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-006	PW-607		4/18/2024 9:45:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-006	PW-607		4/18/2024 9:45:00 AM	4/19/2024 10:50:00 AM	Drinking Water



SUMMIT
 ENVIRONMENTAL TECHNOLOGIES, INC
 Analytical Laboratories

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Workorder
Sample Summary
 WO#: 24041506
 01-May-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24041506-006	PW-607		4/18/2024 9:45:00 AM	4/19/2024 10:50:00 AM	Drinking Water
24041506-007	Trip Blank 1			4/19/2024 10:50:00 AM	Drinking Water
24041506-007	Trip Blank 1			4/19/2024 10:50:00 AM	Drinking Water
24041506-008	Trip Blank 2			4/19/2024 10:50:00 AM	Drinking Water
24041506-008	Trip Blank 2			4/19/2024 10:50:00 AM	Drinking Water
24041506-009	Trip Blank 3			4/19/2024 10:50:00 AM	Drinking Water
24041506-009	Trip Blank 3			4/19/2024 10:50:00 AM	Drinking Water
24041506-010	Trip Blank 4			4/19/2024 10:50:00 AM	Drinking Water
24041506-010	Trip Blank 4			4/19/2024 10:50:00 AM	Drinking Water



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Case Narrative

WO#: 24041506
Date: 5/1/2024

CLIENT: Columbiana County Health District

Project: EP

WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:

24041506: The lab does not routinely spike for 2-Butoxyethanol; this compound is included in the instrument initial calibration and initial calibration verification.

Analytical Sequence Sample Notes:

24041506-001 through 006 SVOC-MSTR_NPW(8270E): CCV demonstrated high recovery for 2-Methylnaphthalene, indicating possible high bias. Sample was ND for this analyte.

24041506-002B SVOC-MSTR_NPW(8270E): Corresponding MS/MSD demonstrated high recovery for 2-Methylnaphthalene, indicating possible high bias. Sample was ND for this analyte.

Original



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Case Narrative

WO#: 24041506
Date: 5/1/2024

CLIENT: Columbiana County Health District

Project: EP

24041506-001 through 006 SVOC_DW(525.3): Possible low bias due to low surrogate recovery, sample analyzed twice to confirm.

Original



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 3:25:00 PM
Project: EP
Lab ID: 24041506-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-335

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Anthracene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Chrysene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Fluorene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/30/2024 1:10:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Pyrene	ND	0.0971		µg/L	1	4/30/2024 1:10:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	43.2	70 - 130	S	%Rec	1	4/30/2024 1:10:00 PM
Surr: Benzo(a)pyrene-d12	77.8	70 - 130		%Rec	1	4/30/2024 1:10:00 PM
Surr: Triphenyl phosphate	84.2	70 - 130		%Rec	1	4/30/2024 1:10:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/26/2024 1:01:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/26/2024 11:46:00 AM
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	4/26/2024 1:01:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/26/2024 1:01:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/26/2024 1:01:00 AM
Surr: Nitrobenzene-d5	94.2	10 - 130		%Rec	1	4/26/2024 1:01:00 AM
Surr: 2-Fluorobiphenyl	70.2	10 - 130		%Rec	1	4/26/2024 1:01:00 AM
Surr: p-Terphenyl-d14	97.9	20 - 181		%Rec	1	4/26/2024 1:01:00 AM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **24041506**

Date Reported: **5/1/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 3:25:00 PM
Project: EP
Lab ID: 24041506-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-335

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 1:36:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.3	70 - 130		%Rec	1	4/23/2024 1:36:00 PM
Surr: 4-Bromofluorobenzene	87.2	70 - 130		%Rec	1	4/23/2024 1:36:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 2:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 2:25:00 PM
Surr: 4-Bromofluorobenzene	99.1	70 - 130		%Rec	1	4/22/2024 2:25:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/22/2024 2:25:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	4/22/2024 2:25:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 2:15:00 PM
Project: EP
Lab ID: 24041506-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-303

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Anthracene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Chrysene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Fluorene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/30/2024 1:43:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Pyrene	ND	0.0971		µg/L	1	4/30/2024 1:43:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	32.8	70 - 130	S	%Rec	1	4/30/2024 1:43:00 PM
Surr: Benzo(a)pyrene-d12	54.2	70 - 130	S	%Rec	1	4/30/2024 1:43:00 PM
Surr: Triphenyl phosphate	56.2	70 - 130	S	%Rec	1	4/30/2024 1:43:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/26/2024 1:39:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/26/2024 12:18:00 PM
2-Methylnaphthalene	ND	0.962QC+QM		µg/L	1	4/26/2024 1:39:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/26/2024 1:39:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/26/2024 1:39:00 AM
Surr: Nitrobenzene-d5	104	10 - 130		%Rec	1	4/26/2024 1:39:00 AM
Surr: 2-Fluorobiphenyl	79.2	10 - 130		%Rec	1	4/26/2024 1:39:00 AM
Surr: p-Terphenyl-d14	96.9	20 - 181		%Rec	1	4/26/2024 1:39:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **24041506**

Date Reported: **5/1/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 2:15:00 PM
Project: EP
Lab ID: 24041506-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-303

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 2:08:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.9	70 - 130		%Rec	1	4/23/2024 2:08:00 PM
Surr: 4-Bromofluorobenzene	82.8	70 - 130		%Rec	1	4/23/2024 2:08:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 10:49:00 AM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 10:49:00 AM
Surr: 4-Bromofluorobenzene	97.9	70 - 130		%Rec	1	4/22/2024 10:49:00 AM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	4/22/2024 10:49:00 AM
Surr: Toluene-d8	101	70 - 130		%Rec	1	4/22/2024 10:49:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 12:30:00 PM
Project: EP
Lab ID: 24041506-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-385

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Anthracene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Chrysene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Fluorene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/30/2024 2:17:00 PM
Phenanthrene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Pyrene	ND	0.0980		µg/L	1	4/30/2024 2:17:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	58.0	70 - 130	S	%Rec	1	4/30/2024 2:17:00 PM
Surr: Benzo(a)pyrene-d12	69.6	70 - 130	S	%Rec	1	4/30/2024 2:17:00 PM
Surr: Triphenyl phosphate	76.8	70 - 130		%Rec	1	4/30/2024 2:17:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	4/26/2024 3:33:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	4/26/2024 12:49:00 PM
2-Methylnaphthalene	ND	0.971	QC+	µg/L	1	4/26/2024 3:33:00 AM
Acenaphthene	ND	0.971		µg/L	1	4/26/2024 3:33:00 AM
Fluoranthene	ND	0.971		µg/L	1	4/26/2024 3:33:00 AM
Surr: Nitrobenzene-d5	102	10 - 130		%Rec	1	4/26/2024 3:33:00 AM
Surr: 2-Fluorobiphenyl	77.5	10 - 130		%Rec	1	4/26/2024 3:33:00 AM
Surr: p-Terphenyl-d14	100	20 - 181		%Rec	1	4/26/2024 3:33:00 AM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 12:30:00 PM
Project: EP
Lab ID: 24041506-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-385

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2) **E524.2** Analyst: ALS
VOC-GC/MS (524.2)

m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 6:25:00 PM
Surr: 1,2-Dichlorobenzene-d4	86.0	70 - 130		%Rec	1	4/23/2024 6:25:00 PM
Surr: 4-Bromofluorobenzene	83.3	70 - 130		%Rec	1	4/23/2024 6:25:00 PM

VOC ANALYSIS (8260D) **SW8260** Analyst: ZDA
VOC BY GC/MS (8260D)

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 2:49:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 2:49:00 PM
Surr: 4-Bromofluorobenzene	99.0	70 - 130		%Rec	1	4/22/2024 2:49:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/22/2024 2:49:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	4/22/2024 2:49:00 PM

Qualifiers:			
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District

Collection Date: 4/18/2024 11:10:00 AM

Project: EP

Lab ID: 24041506-004

Matrix: DRINKING WATER

Client Sample ID: PW-576

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Anthracene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Chrysene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Fluorene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/30/2024 2:50:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Pyrene	ND	0.0971		µg/L	1	4/30/2024 2:50:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	41.4	70 - 130	S	%Rec	1	4/30/2024 2:50:00 PM
Surr: Benzo(a)pyrene-d12	68.0	70 - 130	S	%Rec	1	4/30/2024 2:50:00 PM
Surr: Triphenyl phosphate	69.6	70 - 130	S	%Rec	1	4/30/2024 2:50:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	4/26/2024 4:11:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	4/26/2024 1:21:00 PM
2-Methylnaphthalene	ND	0.971	QC+	µg/L	1	4/26/2024 4:11:00 AM
Acenaphthene	ND	0.971		µg/L	1	4/26/2024 4:11:00 AM
Fluoranthene	ND	0.971		µg/L	1	4/26/2024 4:11:00 AM
Surr: Nitrobenzene-d5	86.2	10 - 130		%Rec	1	4/26/2024 4:11:00 AM
Surr: 2-Fluorobiphenyl	65.5	10 - 130		%Rec	1	4/26/2024 4:11:00 AM
Surr: p-Terphenyl-d14	93.8	20 - 181		%Rec	1	4/26/2024 4:11:00 AM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 11:10:00 AM
Project: EP
Lab ID: 24041506-004 **Matrix:** DRINKING WATER
Client Sample ID: PW-576

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 6:57:00 PM
Surr: 1,2-Dichlorobenzene-d4	83.7	70 - 130		%Rec	1	4/23/2024 6:57:00 PM
Surr: 4-Bromofluorobenzene	82.4	70 - 130		%Rec	1	4/23/2024 6:57:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 3:13:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 3:13:00 PM
Surr: 4-Bromofluorobenzene	102	70 - 130		%Rec	1	4/22/2024 3:13:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/22/2024 3:13:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	4/22/2024 3:13:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 9:35:00 AM
Project: EP
Lab ID: 24041506-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-607 FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Anthracene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Chrysene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Fluorene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/30/2024 3:23:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Pyrene	ND	0.0971		µg/L	1	4/30/2024 3:23:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	63.0	70 - 130	S	%Rec	1	4/30/2024 3:23:00 PM
Surr: Benzo(a)pyrene-d12	75.6	70 - 130		%Rec	1	4/30/2024 3:23:00 PM
Surr: Triphenyl phosphate	86.2	70 - 130		%Rec	1	4/30/2024 3:23:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	4/26/2024 4:49:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	4/26/2024 1:52:00 PM
2-Methylnaphthalene	ND	0.971	QC+	µg/L	1	4/26/2024 4:49:00 AM
Acenaphthene	ND	0.971		µg/L	1	4/26/2024 4:49:00 AM
Fluoranthene	ND	0.971		µg/L	1	4/26/2024 4:49:00 AM
Surr: Nitrobenzene-d5	105	10 - 130		%Rec	1	4/26/2024 4:49:00 AM
Surr: 2-Fluorobiphenyl	80.7	10 - 130		%Rec	1	4/26/2024 4:49:00 AM
Surr: p-Terphenyl-d14	104	20 - 181		%Rec	1	4/26/2024 4:49:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 9:35:00 AM
Project: EP
Lab ID: 24041506-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-607 FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 7:29:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.7	70 - 130		%Rec	1	4/23/2024 7:29:00 PM
Surr: 4-Bromofluorobenzene	86.7	70 - 130		%Rec	1	4/23/2024 7:29:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 3:37:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 3:37:00 PM
Surr: 4-Bromofluorobenzene	102	70 - 130		%Rec	1	4/22/2024 3:37:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/22/2024 3:37:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	4/22/2024 3:37:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 9:45:00 AM
Project: EP
Lab ID: 24041506-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: JDB
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Anthracene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Chrysene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Fluorene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/30/2024 3:56:00 PM
Phenanthrene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Pyrene	ND	0.0971		µg/L	1	4/30/2024 3:56:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	48.6	70 - 130	S	%Rec	1	4/30/2024 3:56:00 PM
Surr: Benzo(a)pyrene-d12	78.4	70 - 130		%Rec	1	4/30/2024 3:56:00 PM
Surr: Triphenyl phosphate	84.6	70 - 130		%Rec	1	4/30/2024 3:56:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	4/26/2024 5:27:00 AM
2-Butoxyethanol	ND	28.8		µg/L	1	4/26/2024 2:24:00 PM
2-Methylnaphthalene	ND	0.962	QC+	µg/L	1	4/26/2024 5:27:00 AM
Acenaphthene	ND	0.962		µg/L	1	4/26/2024 5:27:00 AM
Fluoranthene	ND	0.962		µg/L	1	4/26/2024 5:27:00 AM
Surr: Nitrobenzene-d5	93.4	10 - 130		%Rec	1	4/26/2024 5:27:00 AM
Surr: 2-Fluorobiphenyl	72.3	10 - 130		%Rec	1	4/26/2024 5:27:00 AM
Surr: p-Terphenyl-d14	94.1	20 - 181		%Rec	1	4/26/2024 5:27:00 AM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: **24041506**

Date Reported: **5/1/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/18/2024 9:45:00 AM
Project: EP
Lab ID: 24041506-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-607

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: **ALS**

m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 8:01:00 PM
Surr: 1,2-Dichlorobenzene-d4	89.1	70 - 130		%Rec	1	4/23/2024 8:01:00 PM
Surr: 4-Bromofluorobenzene	89.2	70 - 130		%Rec	1	4/23/2024 8:01:00 PM

VOC ANALYSIS (8260D)
VOC BY GC/MS (8260D)

SW8260

Analyst: **ZDA**

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:01:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:01:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	4/22/2024 4:01:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	4/22/2024 4:01:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	4/22/2024 4:01:00 PM

Qualifiers:						
B	Analyte detected in the associated Method Blank	E	Value above quantitation range			
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response			
ND	Not Detected	PL	Permit Limit			
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
W	Sample container temperature is out of limit as specified at testcode					



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24041506-007

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 4:17:00 PM
Surr: 1,2-Dichlorobenzene-d4	89.5	70 - 130		%Rec	1	4/23/2024 4:17:00 PM
Surr: 4-Bromofluorobenzene	86.3	70 - 130		%Rec	1	4/23/2024 4:17:00 PM

VOC ANALYSIS (8260D)
VOC BY GC/MS (8260D)

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:25:00 PM
Surr: 4-Bromofluorobenzene	99.3	70 - 130		%Rec	1	4/22/2024 4:25:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/22/2024 4:25:00 PM
Surr: Toluene-d8	103	70 - 130		%Rec	1	4/22/2024 4:25:00 PM

Qualifiers:						
B	Analyte detected in the associated Method Blank	E	Value above quantitation range	M	Manual Integration used to determine area response	
H	Holding times for preparation or analysis exceeded	PL	Permit Limit	RL	Reporting Detection Limit	
ND	Not Detected					
R	RPD outside accepted recovery limits					
W	Sample container temperature is out of limit as specified at testcode					



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24041506-008

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 4:49:00 PM
Surr: 1,2-Dichlorobenzene-d4	90.6	70 - 130		%Rec	1	4/23/2024 4:49:00 PM
Surr: 4-Bromofluorobenzene	87.4	70 - 130		%Rec	1	4/23/2024 4:49:00 PM

VOC ANALYSIS (8260D)
VOC BY GC/MS (8260D)

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:49:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 4:49:00 PM
Surr: 4-Bromofluorobenzene	103	70 - 130		%Rec	1	4/22/2024 4:49:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/22/2024 4:49:00 PM
Surr: Toluene-d8	98.4	70 - 130		%Rec	1	4/22/2024 4:49:00 PM

Qualifiers:					
B	Analyte detected in the associated Method Blank	E	Value above quantitation range	M	Manual Integration used to determine area response
H	Holding times for preparation or analysis exceeded	PL	Permit Limit	RL	Reporting Detection Limit
ND	Not Detected				
R	RPD outside accepted recovery limits				
W	Sample container temperature is out of limit as specified at testcode				



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Analytical Report

(consolidated)

WO#: **24041506**

Date Reported: **5/1/2024**

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24041506-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 5:21:00 PM
Surr: 1,2-Dichlorobenzene-d4	88.5	70 - 130		%Rec	1	4/23/2024 5:21:00 PM
Surr: 4-Bromofluorobenzene	84.0	70 - 130		%Rec	1	4/23/2024 5:21:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 5:13:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 5:13:00 PM
Surr: 4-Bromofluorobenzene	99.8	70 - 130		%Rec	1	4/22/2024 5:13:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	4/22/2024 5:13:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	4/22/2024 5:13:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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Analytical Report

(consolidated)

WO#: 24041506

Date Reported: 5/1/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24041506-010

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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DRINKING WATER VOCS (EPA 524.2)
VOC-GC/MS (524.2)

E524.2

Analyst: ALS

1,1-Dichloropropene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Benzene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Naphthalene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
o-Xylene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Toluene	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/23/2024 5:53:00 PM
Surr: 1,2-Dichlorobenzene-d4	88.4	70 - 130		%Rec	1	4/23/2024 5:53:00 PM
Surr: 4-Bromofluorobenzene	86.3	70 - 130		%Rec	1	4/23/2024 5:53:00 PM

VOC ANALYSIS (8260D)
VOC BY GC/MS (8260D)

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/22/2024 5:36:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/22/2024 5:36:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	4/22/2024 5:36:00 PM
Surr: Dibromofluoromethane	105	70 - 130		%Rec	1	4/22/2024 5:36:00 PM
Surr: Toluene-d8	98.9	70 - 130		%Rec	1	4/22/2024 5:36:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 74814

Sample ID: MB-74814	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: PBW	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/25/2024	SeqNo: 4999817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						QC-
1-Methylnaphthalene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0263		0.05000		52.6	10	130				
Surr: Phenol-d6	0.0192		0.05000		38.3	10	130				
Surr: Nitrobenzene-d5	0.0527		0.05000		105	10	130				
Surr: 2,4,6-Tribromophenol	0.0490		0.05000		98.0	19	151				
Surr: 2-Fluorobiphenyl	0.0432		0.05000		86.4	10	130				
Surr: p-Terphenyl-d14	0.0523		0.05000		105	20	181				

Sample ID: LCS-74814	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: LCSW	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/25/2024	SeqNo: 4999818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0	70	130				QC-
1-Methylnaphthalene	38.4	5.00	40.0	0	96.0	33	130				
2-Methylnaphthalene	39.3	5.00	40.0	0	98.2	32	130				
Acenaphthene	39.8	5.00	40.0	0	99.6	44	130				
Fluoranthene	45.1	5.00	40.0	0	113	63	130				
Surr: 2-Fluorophenol	0.0337		0.05000		67.4	10	130				
Surr: Phenol-d6	0.0245		0.05000		49.0	10	130				
Surr: Nitrobenzene-d5	0.0598		0.05000		120	10	130				
Surr: 2,4,6-Tribromophenol	0.0546		0.05000		109	19	151				

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 74814

Sample ID: LCS-74814	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: LCSW	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/25/2024	SeqNo: 4999818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0478		0.05000		95.6	10	130				
Surr: p-Terphenyl-d14	0.0566		0.05000		113	20	181				

Sample ID: 24041506-002BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: PW-303	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/26/2024	SeqNo: 4999833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2-Butoxyethanol	ND	29.1		0	0	70	130				QC-
1-Methylnaphthalene	38.7	4.85	38.8	0	99.8	45	130				
2-Methylnaphthalene	54.6	4.85	38.8	0	141	42	134				SQC+
Acenaphthene	38.9	4.85	38.8	0	100	52	128				
Fluoranthene	43.7	4.85	38.8	0	113	61	136				
Surr: 2-Fluorophenol	0.0317		0.04854		65.4	10	130				
Surr: Phenol-d6	0.0214		0.04854		44.1	10	130				
Surr: Nitrobenzene-d5	0.0542		0.04854		112	10	130				
Surr: 2,4,6-Tribromophenol	0.0505		0.04854		104	19	151				
Surr: 2-Fluorobiphenyl	0.0442		0.04854		91.0	10	130				
Surr: p-Terphenyl-d14	0.0512		0.04854		106	20	181				

Sample ID: 24041506-002BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: PW-303	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/26/2024	SeqNo: 4999834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeds
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **24041506**

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 74814

Sample ID: 24041506-002BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184432						
Client ID: PW-303	Batch ID: 74814	TestNo: SW8270	SW3510C	Analysis Date: 4/26/2024	SeqNo: 4999834						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	29.4		0	0	70	130	0	0	30	QC-
1-Methylnaphthalene	38.5	4.90	39.2	0	98.2	45	130	38.7	0.590	30	
2-Methylnaphthalene	54.8	4.90	39.2	0	140	42	134	54.6	0.352	30	SQC+
Acenaphthene	40.2	4.90	39.2	0	103	52	128	38.9	3.27	30	
Fluoranthene	45.6	4.90	39.2	0	116	61	136	43.7	4.08	30	
Surr: 2-Fluorophenol	0.0285		0.04902		58.2	10	130		0		
Surr: Phenol-d6	0.0203		0.04902		41.5	10	130		0		
Surr: Nitrobenzene-d5	0.0539		0.04902		110	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0526		0.04902		107	19	151		0		
Surr: 2-Fluorobiphenyl	0.0466		0.04902		95.1	10	130		0		
Surr: p-Terphenyl-d14	0.0532		0.04902		109	20	181		0		

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 74824

Sample ID: MB-74824	SampType: MBLK	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656							
Client ID: PBW	Batch ID: 74824	TestNo: E525 525	Analysis Date: 4/29/2024	SeqNo: 5005028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benz(a)anthracene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									
Benzo(k)fluoranthene	ND	0.100									
Chrysene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenzene	3.63		5.000		72.6	70	130				
Surr: Benzo(a)pyrene-d12	4.04		5.000		80.8	70	130				
Surr: Triphenyl phosphate	4.56		5.000		91.2	70	130				

Sample ID: LCS-74824	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656							
Client ID: LCSW	Batch ID: 74824	TestNo: E525 525	Analysis Date: 4/29/2024	SeqNo: 5005030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.10	0.100	5.000	0	82.0	70	130				
Anthracene	4.24	0.100	5.000	0	84.8	70	130				
Benz(a)anthracene	4.95	0.100	5.000	0	99.0	70	130				
Benzo(a)pyrene	4.46	0.100	5.000	0	89.2	70	130				

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 74824

Sample ID: LCS-74824	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656							
Client ID: LCSW	Batch ID: 74824	TestNo: E525 525	Analysis Date: 4/29/2024	SeqNo: 5005030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.53	0.100	5.000	0	90.6	70	130				
Benzo(g,h,i)perylene	4.60	0.100	5.000	0	92.0	70	130				
Benzo(k)fluoranthene	4.76	0.100	5.000	0	95.2	70	130				
Chrysene	5.06	0.100	5.000	0	101	70	130				
Dibenz(a,h)anthracene	4.64	0.100	5.000	0	92.8	70	130				
Fluorene	4.68	0.100	5.000	0	93.6	70	130				
Indeno(1,2,3-cd)pyrene	4.51	1.00	5.000	0	90.2	70	130				
Phenanthrene	4.61	0.100	5.000	0	92.2	70	130				
Pyrene	4.54	0.100	5.000	0	90.8	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	3.18		5.000		63.6	70	130				S
Surr: Benzo(a)pyrene-d12	4.33		5.000		86.6	70	130				
Surr: Triphenyl phosphate	4.29		5.000		85.8	70	130				

Sample ID: 24041506-002AMS	SampType: MS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656							
Client ID: PW-303	Batch ID: 74824	TestNo: E525 525	Analysis Date: 4/29/2024	SeqNo: 5005037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.14	0.0971	4.854	0	85.2	70	130				
Anthracene	4.26	0.0971	4.854	0	87.8	70	130				
Benz(a)anthracene	4.87	0.0971	4.854	0	100	70	130				
Benzo(a)pyrene	4.39	0.0971	4.854	0	90.4	70	130				
Benzo(b)fluoranthene	4.41	0.0971	4.854	0	90.8	70	130				
Benzo(g,h,i)perylene	4.51	0.0971	4.854	0	93.0	70	130				
Benzo(k)fluoranthene	4.71	0.0971	4.854	0	97.0	70	130				
Chrysene	5.05	0.0971	4.854	0	104	70	130				

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 74824

Sample ID: 24041506-002AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656						
Client ID: PW-303	Batch ID: 74824	TestNo: E525	525	Analysis Date: 4/29/2024	SeqNo: 5005037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	4.50	0.0971	4.854	0	92.8	70	130				
Fluorene	4.60	0.0971	4.854	0	94.8	70	130				
Indeno(1,2,3-cd)pyrene	4.38	0.971	4.854	0	90.2	70	130				
Phenanthrene	4.72	0.0971	4.854	0	97.2	70	130				
Pyrene	4.49	0.0971	4.854	0	92.4	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	3.12		4.854		64.2	70	130				S
Surr: Benzo(a)pyrene-d12	3.86		4.854		79.6	70	130				
Surr: Triphenyl phosphate	4.26		4.854		87.8	70	130				

Sample ID: 24041506-002AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656						
Client ID: PW-303	Batch ID: 74824	TestNo: E525	525	Analysis Date: 4/29/2024	SeqNo: 5005039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.05	0.0962	4.808	0	84.2	70	130	4.136	2.15	30	
Anthracene	4.32	0.0962	4.808	0	89.8	70	130	4.262	1.29	30	
Benz(a)anthracene	4.88	0.0962	4.808	0	102	70	130	4.874	0.222	30	
Benzo(a)pyrene	4.44	0.0962	4.808	0	92.4	70	130	4.388	1.22	30	
Benzo(b)fluoranthene	4.44	0.0962	4.808	0	92.4	70	130	4.408	0.781	30	
Benzo(g,h,i)perylene	4.61	0.0962	4.808	0	95.8	70	130	4.515	2.00	30	
Benzo(k)fluoranthene	4.67	0.0962	4.808	0	97.2	70	130	4.709	0.760	30	
Chrysene	5.04	0.0962	4.808	0	105	70	130	5.049	0.200	30	
Dibenz(a,h)anthracene	4.45	0.0962	4.808	0	92.6	70	130	4.505	1.18	30	
Fluorene	4.59	0.0962	4.808	0	95.4	70	130	4.602	0.335	30	
Indeno(1,2,3-cd)pyrene	4.41	0.962	4.808	0	91.8	70	130	4.379	0.792	30	
Phenanthrene	4.63	0.0962	4.808	0	96.4	70	130	4.718	1.79	30	

Qualifiers:
 B Analyte detected in the associated Method Blank
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 R RPD outside accepted recovery limits
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E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds
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 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **24041506**
01-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 74824

Sample ID: 24041506-002AMSD	SampType: MSD	TestCode: SVOC_DW(52)	Units: µg/L	Prep Date: 4/23/2024	RunNo: 184656						
Client ID: PW-303	Batch ID: 74824	TestNo: E525	525	Analysis Date: 4/29/2024	SeqNo: 5005039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	4.49	0.0962	4.808	0	93.4	70	130	4.485	0.110	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	2.86		4.808		59.4	70	130		0	0	S
Surr: Benzo(a)pyrene-d12	3.91		4.808		81.4	70	130		0	0	
Surr: Triphenyl phosphate	4.04		4.808		84.0	70	130		0	0	

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
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E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R184185

Sample ID: LCS-R184185	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 184185						
Client ID: LCSW	Batch ID: R184185	TestNo: SW8260	Analysis Date: 4/22/2024	SeqNo: 4993144							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	21.6	5.00	20.00	0	108	70	130				
n-Butyl acrylate	18.1	5.00	20.00	0	90.5	70	130				
Surr: 4-Bromofluorobenzene	48.8		50.00		97.7	70	130				
Surr: Dibromofluoromethane	50.9		50.00		102	70	130				
Surr: Toluene-d8	50.2		50.00		100	70	130				

Sample ID: MB-R184185	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 184185						
Client ID: PBW	Batch ID: R184185	TestNo: SW8260	Analysis Date: 4/22/2024	SeqNo: 4993148							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									
Surr: 4-Bromofluorobenzene	48.6		50.00		97.3	70	130				
Surr: Dibromofluoromethane	52.4		50.00		105	70	130				
Surr: Toluene-d8	50.6		50.00		101	70	130				

Sample ID: 24041506-002DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 184185						
Client ID: PW-303	Batch ID: R184185	TestNo: SW8260	Analysis Date: 4/22/2024	SeqNo: 4993150							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	20.8	5.00	20.00	0	104	70	130				
n-Butyl acrylate	19.1	5.00	20.00	0	95.6	70	130				
Surr: 4-Bromofluorobenzene	49.5		50.00		99.0	70	130				

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R184185

Sample ID: 24041506-002DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 184185						
Client ID: PW-303	Batch ID: R184185	TestNo: SW8260	Analysis Date: 4/22/2024	SeqNo: 4993150							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	49.0		50.00		98.1	70	130				
Surr: Toluene-d8	49.5		50.00		99.1	46.1	154				

Sample ID: 24041506-002DMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 184185						
Client ID: PW-303	Batch ID: R184185	TestNo: SW8260	Analysis Date: 4/22/2024	SeqNo: 4993152							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	20.7	5.00	20.00	0	103	70	130	20.83	0.713	20	
n-Butyl acrylate	19.3	5.00	20.00	0	96.4	70	130	19.12	0.818	20	
Surr: 4-Bromofluorobenzene	49.6		50.00		99.3	70	130		0	20	
Surr: Dibromofluoromethane	50.0		50.00		100	70	130		0	20	
Surr: Toluene-d8	49.3		50.00		98.6	46.1	154		0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
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- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R184285

Sample ID: LCS-R184285	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 184285							
Client ID: LCSW	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995875							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.98	0.500	5.000	0	99.7	70	130				
1,2,4-Trimethylbenzene	4.56	0.500	5.000	0	91.1	70	130				
Benzene	4.80	0.500	5.000	0	96.0	70	130				
Ethylbenzene	4.39	0.500	5.000	0	87.7	70	130				
m,p-Xylene	9.18	0.500	10.00	0	91.8	70	130				
Naphthalene	4.19	0.500	5.000	0	83.9	70	130				
o-Xylene	4.64	0.500	5.000	0	92.7	70	130				
Toluene	4.53	0.500	5.000	0	90.7	70	130				
Vinyl chloride	5.21	0.500	5.000	0	104	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.83		10.00		98.3	70	130				
Surr: 4-Bromofluorobenzene	9.82		10.00		98.2	70	130				

Sample ID: MB-R184285	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 184285							
Client ID: PBW	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995877							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Benzene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Naphthalene	ND	0.500									
o-Xylene	ND	0.500									
Toluene	ND	0.500									
Vinyl chloride	ND	0.500									

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
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E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24041506

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R184285

Sample ID: MB-R184285	SampType: MBLK	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 184285							
Client ID: PBW	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995877							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	9.07		10.00		90.7	70	130				
Surr: 4-Bromofluorobenzene	8.83		10.00		88.3	70	130				

Sample ID: 24041506-002CMS	SampType: MS	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 184285							
Client ID: PW-303	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995886							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	5.75	0.500	5.000	0	115	70	130				
1,2,4-Trimethylbenzene	5.01	0.500	5.000	0	100	70	130				
Benzene	5.34	0.500	5.000	0	107	70	130				
Ethylbenzene	4.98	0.500	5.000	0	99.7	70	130				
m,p-Xylene	10.4	0.500	10.00	0	104	70	130				
Naphthalene	4.02	0.500	5.000	0	80.4	70	130				
o-Xylene	5.17	0.500	5.000	0	103	70	130				
Toluene	5.23	0.500	5.000	0	105	70	130				
Vinyl chloride	5.57	0.500	5.000	0	111	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.1		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130				

Sample ID: 24041506-002CMSD	SampType: MSD	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 184285							
Client ID: PW-303	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995887							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
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- S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **24041506**

01-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R184285

Sample ID: 24041506-002CMSD	SampType: MSD	TestCode: VOC_DW(524	Units: µg/L	Prep Date:	RunNo: 184285						
Client ID: PW-303	Batch ID: R184285	TestNo: E524.2	Analysis Date: 4/23/2024	SeqNo: 4995887							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.55	0.500	5.000	0	111	70	130	5.752	3.61	25	
1,2,4-Trimethylbenzene	5.12	0.500	5.000	0	102	70	130	5.006	2.25	25	
Benzene	5.29	0.500	5.000	0	106	70	130	5.335	0.790	25	
Ethylbenzene	5.06	0.500	5.000	0	101	70	130	4.983	1.55	25	
m,p-Xylene	10.4	0.500	10.00	0	104	70	130	10.44	0.471	25	
Naphthalene	4.47	0.500	5.000	0	89.4	70	130	4.019	10.6	25	
o-Xylene	5.20	0.500	5.000	0	104	70	130	5.172	0.617	25	
Toluene	5.04	0.500	5.000	0	101	70	130	5.227	3.62	25	
Vinyl chloride	5.81	0.500	5.000	0	116	70	130	5.571	4.25	25	
Surr: 1,2-Dichlorobenzene-d4	10.1		10.00		101	70	130		0	25	
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130		0	25	

Qualifiers:

B Analyte detected in the associated Method Blank
M Manual Integration used to determine area response
R RPD outside accepted recovery limits
W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
ND Not Detected
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeds
PL Permit Limit
S Spike Recovery outside accepted recovery limits

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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DATES REPORT

WO#: **24041506**
01-May-24

Client: Columbiana County Health District
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24041506-001A	PW-335	4/18/2024 3:25:00 PM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/29/2024 7:02:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 1:10:00 PM
24041506-001B				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 11:46:00 AM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 1:01:00 AM
24041506-001C				VOC-GC/MS (524.2)			4/23/2024 1:36:00 PM
24041506-001D				VOC by GC/MS (8260D)			4/22/2024 2:25:00 PM
24041506-002A	PW-303	4/18/2024 2:15:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 1:43:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/29/2024 8:42:00 PM
24041506-002B				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 12:18:00 PM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 1:39:00 AM
24041506-002C				VOC-GC/MS (524.2)			4/23/2024 2:08:00 PM
24041506-002D				VOC by GC/MS (8260D)			4/22/2024 10:49:00 AM
24041506-003A	PW-385	4/18/2024 12:30:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 2:17:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/29/2024 9:16:00 PM
24041506-003B				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 12:49:00 PM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 3:33:00 AM
24041506-003C				VOC-GC/MS (524.2)			4/23/2024 6:25:00 PM
24041506-003D				VOC by GC/MS (8260D)			4/22/2024 2:49:00 PM
24041506-004A	PW-576	4/18/2024 11:10:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 2:50:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/29/2024 9:49:00 PM

Original



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DATES REPORT

WO#: **24041506**
01-May-24

Client: Columbiana County Health District
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24041506-004B	PW-576	4/18/2024 11:10:00 AM	Drinking Water	SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 1:21:00 PM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 4:11:00 AM
24041506-004C				VOC-GC/MS (524.2)			4/23/2024 6:57:00 PM
24041506-004D				VOC by GC/MS (8260D)			4/22/2024 3:13:00 PM
24041506-005A	PW-607 FB	4/18/2024 9:35:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 3:23:00 PM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/29/2024 11:29:00 PM
24041506-005B				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 1:52:00 PM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 4:49:00 AM
24041506-005C				VOC-GC/MS (524.2)			4/23/2024 7:29:00 PM
24041506-005D				VOC by GC/MS (8260D)			4/22/2024 3:37:00 PM
24041506-006A	PW-607	4/18/2024 9:45:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 12:02:00 AM
				Synthetic Organic Compounds by GC/ (EPA 525.3)		4/23/2024 1:20:00 PM	4/30/2024 3:56:00 PM
24041506-006B				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 2:24:00 PM
				SVOC by 8270E		4/23/2024 12:30:00 PM	4/26/2024 5:27:00 AM
24041506-006C				VOC-GC/MS (524.2)			4/23/2024 8:01:00 PM
24041506-006D				VOC by GC/MS (8260D)			4/22/2024 4:01:00 PM
24041506-007A	Trip Blank 1			VOC-GC/MS (524.2)			4/23/2024 4:17:00 PM
24041506-007B				VOC by GC/MS (8260D)			4/22/2024 4:25:00 PM
24041506-008A	Trip Blank 2			VOC-GC/MS (524.2)			4/23/2024 4:49:00 PM
24041506-008B				VOC by GC/MS (8260D)			4/22/2024 4:49:00 PM
24041506-009A	Trip Blank 3			VOC-GC/MS (524.2)			4/23/2024 5:21:00 PM
24041506-009B				VOC by GC/MS (8260D)			4/22/2024 5:13:00 PM

Original



SUMMIT
 ENVIRONMENTAL TECHNOLOGIES, INC.
 Analytical Laboratories

Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

DATES REPORT

WO#: **24041506**
01-May-24

Client: Columbiana County Health District

Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24041506-010A	Trip Blank 4		Drinking Water	VOC-GC/MS (524.2)			4/23/2024 5:53:00 PM
24041506-010B				VOC by GC/MS (8260D)			4/22/2024 5:36:00 PM

Original



Analysis Request / Chain of Custody

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SET
WO
NO
24041506
For Summit Environmental Technologies, Inc. use only

Client Name: CCHD		Project Identification: FP		Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)		Analytical Parameters and Methods Requested						
Client Phone: 330-424-0272		Project ID: CCHD										
Contact Person: Kevin Summerville		PO #: PW-335	Quote Number:			Number of Containers per Sample		524	828	525.2	828	For DW Only: Special Compliance or Routine (S/R)
Client Email Address: ksummerville@columbiana-health.org		PWS ID: PW-335	Facility ID:									
Sampled By (Print Name and Provide Signature): Kevin Summerville Sign: <i>Kevin Summerville</i>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):		For DW only, results to be reported to state by lab? If yes, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N								

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	For DW Only: Special Compliance or Routine (S/R)
	PW-335	Outside Spigot	4/18/24	1525	✓		DW	8	10	X

Relinquished by:	Date	Time	Received by:	Date	Time	Notes / Comments:
<i>Kevin Summerville</i>	4/19/24	820	<i>DAVID YOR</i>	4/19	0820	524-HCl, 826-HCl, 525.2-unknown
<i>DAVID YOR</i>	4/19	1050				3.1-0.2 as intact - 4/18/24 of Kevin Summerville

Received at Summit by: <i>Anthony B...</i>	Date: APR 19 2024	Time: 1050	Carrier: SET	Rush Requested: <input type="checkbox"/> YES <input type="checkbox"/> NO	Day(s):	Received Temp.: 2.9 °C	Other Container: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED
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Analysis Request / Chain of Custody

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SET
WO
NO.: For Summit Environmental Technologies, Inc. use only

Client Name CC HD	Project Identification EP
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Client Phone 330-424-0272	Report To CC HD
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Contact Person Kevin Summerville	PO #	Quote Number
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Client Email Address ksummerville@columbiana-health.com	PWS ID PW-303	Facility ID
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Sampled By (Print Name and Provide Signature) **Kevin Summerville**
 Print: **Kevin Summerville**
 Sign: **Kevin Summerville**

Reporting/Accreditation Requirements:
 Ohio VAP Ohio EPA Pb, Cu
 Drinking Water Compliance
 Other Compliance (List State/ Program):

For DW only, results to be reported to state by lab? If yes, lab fee may apply: Y N

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested				For DW Only: Special Compliance or Routine (S/R)
	PW-303	Outside Spigot	4/18/24	1415	✓	DW	8	10	524	828	525.2	8260		
	PW-303	MS	4/18/24	1415	✓	DW	8	10	X	X	X	X		
	PW-303	MSD	4/18/24	1415	✓	DW	8	10	X	X	X	X		

Relinquished by: Kevin Summerville	Date 4/19/24	Time 820	Received by: ANTHONY	Date 4/19	Time 0820	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown - Strong odor of mothballs by sample port, mothballs observed under sample port
ANTHONY	4/19	1050				

Received at Summit by: Anthony B. Stettin	Date APR 19 2024	Time 1050	Carrier SET	Rush Requested: <input type="checkbox"/> Day(s) <input type="checkbox"/> Night Must be approved by Lab Manager	Received Temp.: 2.9, 2.1 °C	Other Container: Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED
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1 VOA MSD 524 had whole dropper of HCl added when whole cap popped off



Analysis Request / Chain of Custody

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Client Name: CC HD		Project Identification: FP		Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested									
Client Phone: 330-424-0272		Report to: CC HD							For DW Only: Special Compliance or Routine (S/R)									
Contact Person: Kevin Summerville		PO #: CC HD																
Client Email Address: ksummerville@columbiana-health.org		PWS ID: PW-385																

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	524	828	525.2	826				
	PW-385	Pressure Tank Spigot	4/18/24	1230	✓		DW	8	10	X	X	X	X				

Relinquished by:	Date	Time	Received by:	Date	Time	Notes / Comments: 524-HCl, 826-HCl, 525.2-unknown 2.7-0.2 CS intact-4/18/24-Kevin Summerville	
<i>Kevin Summerville</i>	4/19/24	820	DAVID YONK	4/19	0820		
	4/19	1050				Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Received at Summit by:	Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:	Other Container:
<i>Anthony B...</i>	APR 19 2024	1050	SET	Must be approved by Lab Manager		2.5 °C	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED



Analysis Request / Chain of Custody

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SET WO NO.:	For Summit Environmental Technologies, Inc. use only
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Client Name: CC HD		Project Identification: FP								Analytical Parameters and Methods Requested				
Client Phone: 330-424-0272		Report To: CC HD												
Contact Person: Kevin Summerville		PO #: CC HD		Quote Number:										
Client Email Address: ksummerville@columbiana-health.org		PWS ID: PW-607		Facility ID:										
Sampled By (Print Name and Provide Signature): Kevin Summerville		Reporting/Accreditation Requirements:												
Print: Kevin Summerville		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu										
Sign: Kevin Summerville		<input type="checkbox"/> Drinking Water Compliance		<input type="checkbox"/> Other Compliance (List State/ Program):										
For DW only, results to be reported to state by lab? If yes, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N														
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Potable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	524	828	525.2	8260	For DW Only: Special Compliance or Routine (S/R)
	PW-607	Field Blank	4/18/24	935	✓	L	8	10	X	X	X	X		
	PW-607	Pressure Tank Spigot	4/18/24	945	✓	DW	8	10	X	X	X	X		
										2.3 - 0.2				
										CS intact - 4/18/24 Kevin Summerville				
Relinquished by:		Date	Time	Received by:		Date	Time	Notes / Comments:						
Kevin Summerville		4/19/24	820	DAVID YOUNG		4/19	0820	524 - HCl, 8260 - HCl, 525.2 - unknown						
DAVID YOUNG		4/19	1050					fuel Fuel oil tank next to sample point						
								- one 525 cup fell on floor bottle masked						
Received at Summit by:		Date	Time	Carrier		Rush Requested: <input type="checkbox"/> YES <input type="checkbox"/> NO	Day(s)	Received Temp.:	Other Container:					
Anthony B. Sette		APR 19 2024	1050	SET		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		2.1 °C	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED					



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 Website: http://www.settek.com

Sample Log-In Check List

Client Name: COL-OH-44432 Work Order Number: 24041506 RcptNo: 1

Logged by:	Anthony W. Britton	4/19/2024 10:50:00 AM	<i>Anthony Britton</i>
Completed By:	Anthony W. Britton	4/19/2024 3:36:19 PM	<i>Anthony Britton</i>
Reviewed By:	Holly Florea	4/22/2024 7:39:19 AM	<i>Holly Florea</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Summit

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
- Custody seals intact on shipping container/cooler? Yes No Not Present
- No. N/A Seal Date: 4/18/2024 Signed By: Kevin Summerville
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? Yes No
- (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No
- (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes	N/A	4/18/2024	Kevin Summe
2	2.1	Good	Yes	N/A	4/18/2024	Kevin Summe
3	2.5	Good	Yes	N/A	4/18/2024	Kevin Summe



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Sample Log-In Check List

Client Name: COL-OH-44432

Work Order Number: 24041506

RcptNo: 1

4	2.1	Good	Yes	N/A	4/18/2024	Kevin Summe
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