



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

April 16, 2024

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

Order No.: 24040529

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 11 sample(s) on 4/8/2024 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,

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#: **24040529**
16-Apr-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040529-001	PW-1164		4/5/2024 12:00:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-001	PW-1164		4/5/2024 12:00:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-001	PW-1164		4/5/2024 12:00:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-001	PW-1164		4/5/2024 12:00:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-002	dupe		4/5/2024	4/8/2024 12:15:00 PM	Drinking Water
24040529-002	dupe		4/5/2024	4/8/2024 12:15:00 PM	Drinking Water
24040529-002	dupe		4/5/2024	4/8/2024 12:15:00 PM	Drinking Water
24040529-002	dupe		4/5/2024	4/8/2024 12:15:00 PM	Drinking Water
24040529-003	PW-362		4/5/2024 3:05:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-003	PW-362		4/5/2024 3:05:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-003	PW-362		4/5/2024 3:05:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-003	PW-362		4/5/2024 3:05:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-004	PW-15		4/5/2024 1:55:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-004	PW-15		4/5/2024 1:55:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-004	PW-15		4/5/2024 1:55:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-004	PW-15		4/5/2024 1:55:00 PM	4/8/2024 12:15:00 PM	Drinking Water
24040529-005	PW-1010		4/5/2024 9:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-005	PW-1010		4/5/2024 9:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-005	PW-1010		4/5/2024 9:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-005	PW-1010		4/5/2024 9:50:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-006	PW-330		4/5/2024 11:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-006	PW-330		4/5/2024 11:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-006	PW-330		4/5/2024 11:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water



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Workorder
Sample Summary
 WO#: **24040529**
16-Apr-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24040529-006	PW-330		4/5/2024 11:00:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-007	PW-330 FB		4/5/2024 10:30:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-007	PW-330 FB		4/5/2024 10:30:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-007	PW-330 FB		4/5/2024 10:30:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-007	PW-330 FB		4/5/2024 10:30:00 AM	4/8/2024 12:15:00 PM	Drinking Water
24040529-008	Trip Blank 1			4/8/2024 12:15:00 PM	Drinking Water
24040529-008	Trip Blank 1			4/8/2024 12:15:00 PM	Drinking Water
24040529-009	Trip Blank 2			4/8/2024 12:15:00 PM	Drinking Water
24040529-009	Trip Blank 2			4/8/2024 12:15:00 PM	Drinking Water
24040529-010	Trip Blank 3			4/8/2024 12:15:00 PM	Drinking Water
24040529-010	Trip Blank 3			4/8/2024 12:15:00 PM	Drinking Water
24040529-011	Trip Blank 4			4/8/2024 12:15:00 PM	Drinking Water
24040529-011	Trip Blank 4			4/8/2024 12:15:00 PM	Drinking Water



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
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Case Narrative

WO#: 24040529
Date: 4/16/2024

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:

24040529: 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:

24040529-001 through 007 SVOC_DW(525.3): MB-74531 exhibited a detection for Acenaphthylene, confirmed by reanalysis. Sample is ND for Acenaphthylene.

Original



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Analytical Report

(consolidated)

WO#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 12:00:00 PM
Project: EP
Lab ID: 24040529-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-1164

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	MB+	µg/L	1	4/15/2024 12:34:00 AM
Anthracene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Chrysene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Fluorene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/15/2024 12:34:00 AM
Phenanthrene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Pyrene	ND	0.0971		µg/L	1	4/15/2024 12:34:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	94.8	70 - 130		%Rec	1	4/15/2024 12:34:00 AM
Surr: Benzo(a)pyrene-d12	88.2	70 - 130		%Rec	1	4/15/2024 12:34:00 AM
Surr: Triphenyl phosphate	116	70 - 130		%Rec	1	4/15/2024 12:34:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	1.00		µg/L	1	4/12/2024 7:37:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	4/12/2024 7:37:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	4/12/2024 7:37:00 PM
Acenaphthene	ND	1.00		µg/L	1	4/12/2024 7:37:00 PM
Fluoranthene	ND	1.00		µg/L	1	4/12/2024 7:37:00 PM
Surr: Nitrobenzene-d5	74.6	10 - 130		%Rec	1	4/12/2024 7:37:00 PM
Surr: 2-Fluorobiphenyl	82.7	10 - 130		%Rec	1	4/12/2024 7:37:00 PM
Surr: p-Terphenyl-d14	95.1	20 - 181		%Rec	1	4/12/2024 7:37:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 1:23:00 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#: **24040529**

Date Reported: **4/16/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 12:00:00 PM
Project: EP
Lab ID: 24040529-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-1164

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	4/9/2024 1:23:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 1:23:00 PM
Surr: 1,2-Dichlorobenzene-d4	95.3	70 - 130		%Rec	1	4/9/2024 1:23:00 PM
Surr: 4-Bromofluorobenzene	96.6	70 - 130		%Rec	1	4/9/2024 1:23:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 12:14:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 12:14:00 PM
Surr: 4-Bromofluorobenzene	93.0	70 - 130		%Rec	1	4/9/2024 12:14:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 12:14:00 PM
Surr: Toluene-d8	98.2	70 - 130		%Rec	1	4/9/2024 12:14:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date: 4/5/2024

Project: EP

Lab ID: 24040529-002

Matrix: DRINKING WATER

Client Sample ID: dupe

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	MB+	µg/L	1	4/15/2024 1:07:00 AM
Anthracene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Chrysene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Fluorene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/15/2024 1:07:00 AM
Phenanthrene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Pyrene	ND	0.0980		µg/L	1	4/15/2024 1:07:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	90.8	70 - 130		%Rec	1	4/15/2024 1:07:00 AM
Surr: Benzo(a)pyrene-d12	88.8	70 - 130		%Rec	1	4/15/2024 1:07:00 AM
Surr: Triphenyl phosphate	108	70 - 130		%Rec	1	4/15/2024 1:07:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 8:08:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	4/12/2024 8:08:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 8:08:00 PM
Acenaphthene	ND	0.980		µg/L	1	4/12/2024 8:08:00 PM
Fluoranthene	ND	0.980		µg/L	1	4/12/2024 8:08:00 PM
Surr: Nitrobenzene-d5	63.2	10 - 130		%Rec	1	4/12/2024 8:08:00 PM
Surr: 2-Fluorobiphenyl	70.0	10 - 130		%Rec	1	4/12/2024 8:08:00 PM
Surr: p-Terphenyl-d14	97.6	20 - 181		%Rec	1	4/12/2024 8:08:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 2:27:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date: 4/5/2024

Project: EP

Lab ID: 24040529-002

Matrix: DRINKING WATER

Client Sample ID: dupe

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	4/9/2024 2:27:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 2:27:00 PM
Surr: 1,2-Dichlorobenzene-d4	96.9	70 - 130		%Rec	1	4/9/2024 2:27:00 PM
Surr: 4-Bromofluorobenzene	95.7	70 - 130		%Rec	1	4/9/2024 2:27:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 1:50:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 1:50:00 PM
Surr: 4-Bromofluorobenzene	95.8	70 - 130		%Rec	1	4/9/2024 1:50:00 PM
Surr: Dibromofluoromethane	98.6	70 - 130		%Rec	1	4/9/2024 1:50:00 PM
Surr: Toluene-d8	96.6	70 - 130		%Rec	1	4/9/2024 1:50:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 3:05:00 PM
Project: EP
Lab ID: 24040529-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-362

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	0.0966	MB+	µg/L	1	4/15/2024 2:47:00 AM
Anthracene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Benz(a)anthracene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Benzo(a)pyrene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Benzo(b)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Benzo(g,h,i)perylene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Benzo(k)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Chrysene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Dibenz(a,h)anthracene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Fluorene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.966		µg/L	1	4/15/2024 2:47:00 AM
Phenanthrene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Pyrene	ND	0.0966		µg/L	1	4/15/2024 2:47:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	82.8	70 - 130		%Rec	1	4/15/2024 2:47:00 AM
Surr: Benzo(a)pyrene-d12	88.4	70 - 130		%Rec	1	4/15/2024 2:47:00 AM
Surr: Triphenyl phosphite	115	70 - 130		%Rec	1	4/15/2024 2:47:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 8:39:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	4/12/2024 8:39:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	4/12/2024 8:39:00 PM
Acenaphthene	ND	0.980		µg/L	1	4/12/2024 8:39:00 PM
Fluoranthene	ND	0.980		µg/L	1	4/12/2024 8:39:00 PM
Surr: Nitrobenzene-d5	79.3	10 - 130		%Rec	1	4/12/2024 8:39:00 PM
Surr: 2-Fluorobiphenyl	88.0	10 - 130		%Rec	1	4/12/2024 8:39:00 PM
Surr: p-Terphenyl-d14	99.1	20 - 181		%Rec	1	4/12/2024 8:39:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 2:59:00 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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Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: **24040529**

Date Reported: **4/16/2024**

CLIENT: Columbiana County Health District

Collection Date: 4/5/2024 3:05:00 PM

Project: EP

Lab ID: 24040529-003

Matrix: DRINKING WATER

Client Sample ID: PW-362

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	4/9/2024 2:59:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 2:59:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.7	70 - 130		%Rec	1	4/9/2024 2:59:00 PM
Surr: 4-Bromofluorobenzene	96.3	70 - 130		%Rec	1	4/9/2024 2:59:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:14:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:14:00 PM
Surr: 4-Bromofluorobenzene	91.8	70 - 130		%Rec	1	4/9/2024 2:14:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 2:14:00 PM
Surr: Toluene-d8	96.6	70 - 130		%Rec	1	4/9/2024 2:14:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 1:55:00 PM
Project: EP
Lab ID: 24040529-004 **Matrix:** DRINKING WATER
Client Sample ID: PW-15

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	MB+	µg/L	1	4/15/2024 3:20:00 AM
Anthracene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Chrysene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Fluorene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/15/2024 3:20:00 AM
Phenanthrene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Pyrene	ND	0.0971		µg/L	1	4/15/2024 3:20:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	94.2	70 - 130		%Rec	1	4/15/2024 3:20:00 AM
Surr: Benzo(a)pyrene-d12	91.8	70 - 130		%Rec	1	4/15/2024 3:20:00 AM
Surr: Triphenyl phosphate	115	70 - 130		%Rec	1	4/15/2024 3:20:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	1.00		µg/L	1	4/12/2024 9:11:00 PM
2-Butoxyethanol	ND	30.0		µg/L	1	4/12/2024 9:11:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	4/12/2024 9:11:00 PM
Acenaphthene	ND	1.00		µg/L	1	4/12/2024 9:11:00 PM
Fluoranthene	ND	1.00		µg/L	1	4/12/2024 9:11:00 PM
Surr: Nitrobenzene-d5	67.0	10 - 130		%Rec	1	4/12/2024 9:11:00 PM
Surr: 2-Fluorobiphenyl	73.5	10 - 130		%Rec	1	4/12/2024 9:11:00 PM
Surr: p-Terphenyl-d14	95.2	20 - 181		%Rec	1	4/12/2024 9:11:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 3:31:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date: 4/5/2024 1:55:00 PM

Project: EP

Lab ID: 24040529-004

Matrix: DRINKING WATER

Client Sample ID: PW-15

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	4/9/2024 3:31:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 3:31:00 PM
Surr: 1,2-Dichlorobenzene-d4	96.8	70 - 130		%Rec	1	4/9/2024 3:31:00 PM
Surr: 4-Bromofluorobenzene	96.0	70 - 130		%Rec	1	4/9/2024 3:31:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:38:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 2:38:00 PM
Surr: 4-Bromofluorobenzene	91.9	70 - 130		%Rec	1	4/9/2024 2:38:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/9/2024 2:38:00 PM
Surr: Toluene-d8	96.9	70 - 130		%Rec	1	4/9/2024 2:38:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 9:50:00 AM
Project: EP
Lab ID: 24040529-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-1010

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	MB+	µg/L	1	4/15/2024 3:53:00 AM
Anthracene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Chrysene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Fluorene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	4/15/2024 3:53:00 AM
Phenanthrene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Pyrene	ND	0.0980		µg/L	1	4/15/2024 3:53:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	89.2	70 - 130		%Rec	1	4/15/2024 3:53:00 AM
Surr: Benzo(a)pyrene-d12	97.2	70 - 130		%Rec	1	4/15/2024 3:53:00 AM
Surr: Triphenyl phosphate	114	70 - 130		%Rec	1	4/15/2024 3:53:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	1.03		µg/L	1	4/12/2024 9:42:00 PM
2-Butoxyethanol	ND	30.9		µg/L	1	4/12/2024 9:42:00 PM
2-Methylnaphthalene	ND	1.03		µg/L	1	4/12/2024 9:42:00 PM
Acenaphthene	ND	1.03		µg/L	1	4/12/2024 9:42:00 PM
Fluoranthene	ND	1.03		µg/L	1	4/12/2024 9:42:00 PM
Surr: Nitrobenzene-d5	66.2	10 - 130		%Rec	1	4/12/2024 9:42:00 PM
Surr: 2-Fluorobiphenyl	72.6	10 - 130		%Rec	1	4/12/2024 9:42:00 PM
Surr: p-Terphenyl-d14	89.9	20 - 181		%Rec	1	4/12/2024 9:42:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 4:03:00 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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Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: **24040529**

Date Reported: **4/16/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 9:50:00 AM
Project: EP
Lab ID: 24040529-005 **Matrix:** DRINKING WATER
Client Sample ID: PW-1010

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	4/9/2024 4:03:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 4:03:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.2	70 - 130		%Rec	1	4/9/2024 4:03:00 PM
Surr: 4-Bromofluorobenzene	94.4	70 - 130		%Rec	1	4/9/2024 4:03:00 PM

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

SW8260

Analyst: **ZDA**

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:02:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:02:00 PM
Surr: 4-Bromofluorobenzene	94.2	70 - 130		%Rec	1	4/9/2024 3:02:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 3:02:00 PM
Surr: Toluene-d8	96.9	70 - 130		%Rec	1	4/9/2024 3:02:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 11:00:00 AM
Project: EP
Lab ID: 24040529-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-330

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	MB+	µg/L	1	4/15/2024 4:27:00 AM
Anthracene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Chrysene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Fluorene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	4/15/2024 4:27:00 AM
Phenanthrene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Pyrene	ND	0.0971		µg/L	1	4/15/2024 4:27:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	82.8	70 - 130		%Rec	1	4/15/2024 4:27:00 AM
Surr: Benzo(a)pyrene-d12	84.8	70 - 130		%Rec	1	4/15/2024 4:27:00 AM
Surr: Triphenyl phosphate	107	70 - 130		%Rec	1	4/15/2024 4:27:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	4/12/2024 10:14:00 PM
2-Butoxyethanol	ND	29.1		µg/L	1	4/12/2024 10:14:00 PM
2-Methylnaphthalene	ND	0.971		µg/L	1	4/12/2024 10:14:00 PM
Acenaphthene	ND	0.971		µg/L	1	4/12/2024 10:14:00 PM
Fluoranthene	ND	0.971		µg/L	1	4/12/2024 10:14:00 PM
Surr: Nitrobenzene-d5	61.7	10 - 130		%Rec	1	4/12/2024 10:14:00 PM
Surr: 2-Fluorobiphenyl	70.4	10 - 130		%Rec	1	4/12/2024 10:14:00 PM
Surr: p-Terphenyl-d14	102	20 - 181		%Rec	1	4/12/2024 10:14:00 PM
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 4:35:00 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#: **24040529**

Date Reported: **4/16/2024**

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 11:00:00 AM
Project: EP
Lab ID: 24040529-006 **Matrix:** DRINKING WATER
Client Sample ID: PW-330

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	4/9/2024 4:35:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 4:35:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.8	70 - 130		%Rec	1	4/9/2024 4:35:00 PM
Surr: 4-Bromofluorobenzene	92.8	70 - 130		%Rec	1	4/9/2024 4:35:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:25:00 PM
Surr: 4-Bromofluorobenzene	93.9	70 - 130		%Rec	1	4/9/2024 3:25:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	4/9/2024 3:25:00 PM
Surr: Toluene-d8	98.7	70 - 130		%Rec	1	4/9/2024 3:25:00 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#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 10:30:00 AM
Project: EP
Lab ID: 24040529-007 **Matrix:** DRINKING WATER
Client Sample ID: PW-330 FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)					E525	525
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						Analyst: JDB

Acenaphthylene	ND	0.0966	MB+	µg/L	1	4/15/2024 5:00:00 AM
Anthracene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Benz(a)anthracene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Benzo(a)pyrene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Benzo(b)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Benzo(g,h,i)perylene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Benzo(k)fluoranthene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Chrysene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Dibenz(a,h)anthracene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Fluorene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.966		µg/L	1	4/15/2024 5:00:00 AM
Phenanthrene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Pyrene	ND	0.0966		µg/L	1	4/15/2024 5:00:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	91.4	70 - 130		%Rec	1	4/15/2024 5:00:00 AM
Surr: Benzo(a)pyrene-d12	95.0	70 - 130		%Rec	1	4/15/2024 5:00:00 AM
Surr: Triphenyl phosphate	117	70 - 130		%Rec	1	4/15/2024 5:00:00 AM

SVOC BY SW8270E	Result	RL	Qual	Units	DF	Date Analyzed
SVOC BY 8270E					SW8270	SW3510C
						Analyst: SAM

1-Methylnaphthalene	ND	1.00		µg/L	1	4/13/2024 12:51:00 AM
2-Butoxyethanol	ND	30.0		µg/L	1	4/13/2024 12:51:00 AM
2-Methylnaphthalene	ND	1.00		µg/L	1	4/13/2024 12:51:00 AM
Acenaphthene	ND	1.00		µg/L	1	4/13/2024 12:51:00 AM
Fluoranthene	ND	1.00		µg/L	1	4/13/2024 12:51:00 AM
Surr: Nitrobenzene-d5	40.3	10 - 130		%Rec	1	4/13/2024 12:51:00 AM
Surr: 2-Fluorobiphenyl	45.3	10 - 130		%Rec	1	4/13/2024 12:51:00 AM
Surr: p-Terphenyl-d14	65.9	20 - 181		%Rec	1	4/13/2024 12:51:00 AM

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

1,1-Dichloropropene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 5:07:00 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		



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

Analytical Report

(consolidated)

WO#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District **Collection Date:** 4/5/2024 10:30:00 AM
Project: EP
Lab ID: 24040529-007 **Matrix:** DRINKING WATER
Client Sample ID: PW-330 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	4/9/2024 5:07:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 5:07:00 PM
Surr: 1,2-Dichlorobenzene-d4	95.9	70 - 130		%Rec	1	4/9/2024 5:07:00 PM
Surr: 4-Bromofluorobenzene	96.4	70 - 130		%Rec	1	4/9/2024 5:07:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:49:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 3:49:00 PM
Surr: 4-Bromofluorobenzene	93.6	70 - 130		%Rec	1	4/9/2024 3:49:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/9/2024 3:49:00 PM
Surr: Toluene-d8	97.2	70 - 130		%Rec	1	4/9/2024 3:49:00 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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 3310 Win St.
 Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040529-008

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 1

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	4/9/2024 5:40:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 5:40:00 PM
Surr: 1,2-Dichlorobenzene-d4	91.5	70 - 130		%Rec	1	4/9/2024 5:40:00 PM
Surr: 4-Bromofluorobenzene	92.2	70 - 130		%Rec	1	4/9/2024 5:40:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:13:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:13:00 PM
Surr: 4-Bromofluorobenzene	93.7	70 - 130		%Rec	1	4/9/2024 4:13:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 4:13:00 PM
Surr: Toluene-d8	97.4	70 - 130		%Rec	1	4/9/2024 4:13:00 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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 Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040529-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 2

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	4/9/2024 6:12:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 6:12:00 PM
Surr: 1,2-Dichlorobenzene-d4	95.3	70 - 130		%Rec	1	4/9/2024 6:12:00 PM
Surr: 4-Bromofluorobenzene	96.3	70 - 130		%Rec	1	4/9/2024 6:12:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:37:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 4:37:00 PM
Surr: 4-Bromofluorobenzene	93.5	70 - 130		%Rec	1	4/9/2024 4:37:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	4/9/2024 4:37:00 PM
Surr: Toluene-d8	97.5	70 - 130		%Rec	1	4/9/2024 4:37:00 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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 3310 Win St.
 Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: 24040529

Date Reported: 4/16/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040529-010

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	4/9/2024 6:44:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 6:44:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.0	70 - 130		%Rec	1	4/9/2024 6:44:00 PM
Surr: 4-Bromofluorobenzene	96.6	70 - 130		%Rec	1	4/9/2024 6:44:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 5:01:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 5:01:00 PM
Surr: 4-Bromofluorobenzene	93.6	70 - 130		%Rec	1	4/9/2024 5:01:00 PM
Surr: Dibromofluoromethane	102	70 - 130		%Rec	1	4/9/2024 5:01:00 PM
Surr: Toluene-d8	97.9	70 - 130		%Rec	1	4/9/2024 5:01:00 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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 Cuyahoga Falls, Ohio 44223
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Analytical Report

(consolidated)

WO#: **24040529**

Date Reported: **4/16/2024**

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24040529-011

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	4/9/2024 7:16:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Benzene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Ethylbenzene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
m,p-Xylene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Naphthalene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
o-Xylene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Toluene	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Vinyl chloride	ND	0.500		µg/L	1	4/9/2024 7:16:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.2	70 - 130		%Rec	1	4/9/2024 7:16:00 PM
Surr: 4-Bromofluorobenzene	94.9	70 - 130		%Rec	1	4/9/2024 7:16:00 PM

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

SW8260

Analyst: **ZDA**

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	4/9/2024 5:24:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	4/9/2024 5:24:00 PM
Surr: 4-Bromofluorobenzene	93.5	70 - 130		%Rec	1	4/9/2024 5:24:00 PM
Surr: Dibromofluoromethane	99.3	70 - 130		%Rec	1	4/9/2024 5:24:00 PM
Surr: Toluene-d8	96.5	70 - 130		%Rec	1	4/9/2024 5:24:00 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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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74527

Sample ID: MB-74527	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183700						
Client ID: PBW	Batch ID: 74527	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4981158						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						
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	0.0210		0.05000		41.9	10	130				
Surr: Phenol-d6	0.0134		0.05000		26.7	10	130				
Surr: Nitrobenzene-d5	0.0343		0.05000		68.7	10	130				
Surr: 2,4,6-Tribromophenol	0.0437		0.05000		87.4	19	151				
Surr: 2-Fluorobiphenyl	0.0376		0.05000		75.1	10	130				
Surr: p-Terphenyl-d14	0.0476		0.05000		95.2	20	181				

Sample ID: LCS-74527	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183700						
Client ID: LCSW	Batch ID: 74527	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4981159						
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				
1-Methylnaphthalene	38.8	5.00	40.0	0	97.1	33	130				
2-Methylnaphthalene	41.2	5.00	40.0	0	103	32	130				
Acenaphthene	39.9	5.00	40.0	0	99.8	44	130				
Fluoranthene	46.9	5.00	40.0	0	117	63	130				
Surr: 2-Fluorophenol	0.0276		0.05000		55.1	10	130				
Surr: Phenol-d6	0.0196		0.05000		39.3	10	130				
Surr: Nitrobenzene-d5	0.0422		0.05000		84.4	10	130				
Surr: 2,4,6-Tribromophenol	0.0519		0.05000		104	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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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 24040529
 16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74527

Sample ID: LCS-74527	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183700						
Client ID: LCSW	Batch ID: 74527	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4981159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0456		0.05000		91.2	10	130				
Surr: p-Terphenyl-d14	0.0463		0.05000		92.6	20	181				

Sample ID: LCSD-74527	SampType: LCSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183700						
Client ID: LCSS02	Batch ID: 74527	TestNo: SW8270	SW3510C	Analysis Date: 4/12/2024	SeqNo: 4981160						
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	0	0	30	
1-Methylnaphthalene	33.6	5.00	40.0	0	84.0	33	130	38.8	14.5	30	
2-Methylnaphthalene	36.0	5.00	40.0	0	90.0	32	130	41.2	13.4	30	
Acenaphthene	38.0	5.00	40.0	0	95.1	44	130	39.9	4.82	30	
Fluoranthene	46.7	5.00	40.0	0	117	63	130	46.9	0.363	30	
Surr: 2-Fluorophenol	0.0203		0.05000		40.7	10	130		0		
Surr: Phenol-d6	0.0152		0.05000		30.5	10	130		0		
Surr: Nitrobenzene-d5	0.0352		0.05000		70.5	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0522		0.05000		104	19	151		0		
Surr: 2-Fluorobiphenyl	0.0403		0.05000		80.7	10	130		0		
Surr: p-Terphenyl-d14	0.0467		0.05000		93.4	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#: 24040529

16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74531

Sample ID: MB-74531	SampType: MBLK	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: PBW	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981340							
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	3.95		5.000		79.0	70	130				
Surr: Benzo(a)pyrene-d12	4.08		5.000		81.6	70	130				
Surr: Triphenyl phosphate	5.21		5.000		104	70	130				

Sample ID: LCS-74531	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711							
Client ID: LCSW	Batch ID: 74531	TestNo: E525 525	Analysis Date: 4/14/2024	SeqNo: 4981342							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.88	0.100	5.000	0	77.6	70	130				MB+
Anthracene	3.57	0.100	5.000	0	71.4	70	130				
Benz(a)anthracene	4.50	0.100	5.000	0	90.0	70	130				
Benzo(a)pyrene	4.04	0.100	5.000	0	80.8	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



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

QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74531

Sample ID: LCS-74531	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: LCSW	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981342						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.19	0.100	5.000	0	83.8	70	130				
Benzo(g,h,i)perylene	4.26	0.100	5.000	0	85.2	70	130				
Benzo(k)fluoranthene	4.37	0.100	5.000	0	87.4	70	130				
Chrysene	4.46	0.100	5.000	0	89.2	70	130				
Dibenz(a,h)anthracene	4.21	0.100	5.000	0	84.2	70	130				
Fluorene	4.33	0.100	5.000	0	86.6	70	130				
Indeno(1,2,3-cd)pyrene	3.84	1.00	5.000	0	76.8	70	130				
Phenanthrene	4.01	0.100	5.000	0	80.2	70	130				
Pyrene	3.76	0.100	5.000	0	75.2	70	130				
Surr: 1,3-Dimethyl-2-nitrobenz...	4.48		5.000		89.6	70	130				
Surr: Benzo(a)pyrene-d12	3.94		5.000		78.8	70	130				
Surr: Triphenyl phosphate	4.66		5.000		93.2	70	130				

Sample ID: 24040475-004AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: BatchQC	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.00	0.0971	4.854	0	82.4	70	130				MB+
Anthracene	3.68	0.0971	4.854	0	75.8	70	130				
Benz(a)anthracene	4.66	0.0971	4.854	0	96.0	70	130				
Benzo(a)pyrene	4.16	0.0971	4.854	0	85.6	70	130				
Benzo(b)fluoranthene	4.34	0.0971	4.854	0	89.4	70	130				
Benzo(g,h,i)perylene	4.39	0.0971	4.854	0	90.4	70	130				
Benzo(k)fluoranthene	4.42	0.0971	4.854	0	91.0	70	130				
Chrysene	4.50	0.0971	4.854	0	92.8	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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 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
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QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: 74531

Sample ID: 24040475-004AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: BatchQC	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981347						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	4.35	0.0971	4.854	0	89.6	70	130				
Fluorene	4.56	0.0971	4.854	0	94.0	70	130				
Indeno(1,2,3-cd)pyrene	4.03	0.971	4.854	0	83.0	70	130				
Phenanthrene	4.08	0.0971	4.854	0	84.0	70	130				
Pyrene	3.84	0.0971	4.854	0	79.2	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	4.53		4.854		93.4	70	130				
Surr: Benzo(a)pyrene-d12	4.76		4.854		98.0	70	130				
Surr: Triphenyl phosphate	5.31		4.854		109	70	130				

Sample ID: 24040475-004AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: BatchQC	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.78	0.0980	4.902	0	77.2	70	130	4.000	5.54	30	MB+
Anthracene	3.54	0.0980	4.902	0	72.2	70	130	3.680	3.89	30	
Benz(a)anthracene	4.56	0.0980	4.902	0	93.0	70	130	4.660	2.20	30	
Benzo(a)pyrene	4.03	0.0980	4.902	0	82.2	70	130	4.155	3.08	30	
Benzo(b)fluoranthene	4.23	0.0980	4.902	0	86.2	70	130	4.340	2.67	30	
Benzo(g,h,i)perylene	4.20	0.0980	4.902	0	85.6	70	130	4.388	4.48	30	
Benzo(k)fluoranthene	4.25	0.0980	4.902	0	86.6	70	130	4.417	3.98	30	
Chrysene	4.39	0.0980	4.902	0	89.6	70	130	4.505	2.53	30	
Dibenz(a,h)anthracene	4.21	0.0980	4.902	0	85.8	70	130	4.350	3.36	30	
Fluorene	4.35	0.0980	4.902	0	88.8	70	130	4.563	4.71	30	
Indeno(1,2,3-cd)pyrene	3.85	0.980	4.902	0	78.6	70	130	4.029	4.47	30	
Phenanthrene	3.95	0.0980	4.902	0	80.6	70	130	4.078	3.16	30	

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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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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QC SUMMARY REPORT

WO#: **24040529**
16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: 74531

Sample ID: 24040475-004AMSD	SampType: MSD	TestCode: SVOC_DW(52)	Units: µg/L	Prep Date: 4/11/2024	RunNo: 183711						
Client ID: BatchQC	Batch ID: 74531	TestNo: E525	525	Analysis Date: 4/14/2024	SeqNo: 4981348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	3.74	0.0980	4.902	0	76.2	70	130	3.845	2.89	30	
Surr: 1,3-Dimethyl-2-nitrobenz...	4.26		4.902		87.0	70	130		0	0	
Surr: Benzo(a)pyrene-d12	4.63		4.902		94.4	70	130		0	0	
Surr: Triphenyl phosphate	5.01		4.902		102	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
 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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 Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183497

Sample ID: LCS-R183497	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183497						
Client ID: LCSW	Batch ID: R183497	TestNo: SW8260	Analysis Date: 4/9/2024	SeqNo: 4975505							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	19.3	5.00	20.00	0	96.4	70	130				
n-Butyl acrylate	18.8	5.00	20.00	0	94.2	70	130				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.3	70	130				
Surr: Dibromofluoromethane	50.6		50.00		101	70	130				
Surr: Toluene-d8	49.5		50.00		99.0	70	130				

Sample ID: MB-R183497	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183497						
Client ID: PBW	Batch ID: R183497	TestNo: SW8260	Analysis Date: 4/9/2024	SeqNo: 4975508							
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	47.5		50.00		95.1	70	130				
Surr: Dibromofluoromethane	51.0		50.00		102	70	130				
Surr: Toluene-d8	48.9		50.00		97.8	70	130				

Sample ID: 24040529-001DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183497						
Client ID: PW-1164	Batch ID: R183497	TestNo: SW8260	Analysis Date: 4/9/2024	SeqNo: 4975528							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	21.4	5.00	20.00	0	107	70	130				
n-Butyl acrylate	21.9	5.00	20.00	0	109	70	130				
Surr: 4-Bromofluorobenzene	48.9		50.00		97.9	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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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: **24040529**
16-Apr-24

Client: Columbiana County Health District
Project: EP

BatchID: R183497

Sample ID: 24040529-001DMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183497						
Client ID: PW-1164	Batch ID: R183497	TestNo: SW8260	Analysis Date: 4/9/2024	SeqNo: 4975528							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50.2		50.00		101	70	130				
Surr: Toluene-d8	49.6		50.00		99.2	46.1	154				

Sample ID: 24040529-001DMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 183497						
Client ID: PW-1164	Batch ID: R183497	TestNo: SW8260	Analysis Date: 4/9/2024	SeqNo: 4975529							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	19.6	5.00	20.00	0	97.9	70	130	21.42	8.94	20	
n-Butyl acrylate	20.0	5.00	20.00	0	100	70	130	21.89	9.04	20	
Surr: 4-Bromofluorobenzene	49.6		50.00		99.3	70	130		0	20	
Surr: Dibromofluoromethane	50.7		50.00		101	70	130		0	20	
Surr: Toluene-d8	49.7		50.00		99.5	46.1	154		0	20	

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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Cuyahoga Falls, Ohio 44223
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QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183513

Sample ID: LCS-R183513	SampType: LCS	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 183513							
Client ID: LCSW	Batch ID: R183513	TestNo: E524.2	Analysis Date: 4/9/2024	SeqNo: 4975896							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.97	0.500	5.000	0	99.4	70	130				
1,2,4-Trimethylbenzene	4.79	0.500	5.000	0	95.7	70	130				
Benzene	4.79	0.500	5.000	0	95.8	70	130				
Ethylbenzene	4.83	0.500	5.000	0	96.6	70	130				
m,p-Xylene	9.64	0.500	10.00	0	96.4	70	130				
Naphthalene	4.65	0.500	5.000	0	92.9	70	130				
o-Xylene	4.96	0.500	5.000	0	99.3	70	130				
Toluene	4.73	0.500	5.000	0	94.6	70	130				
Vinyl chloride	4.36	0.500	5.000	0	87.2	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.6		10.00		106	70	130				
Surr: 4-Bromofluorobenzene	10.4		10.00		104	70	130				

Sample ID: MB-R183513	SampType: MBLK	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 183513							
Client ID: PBW	Batch ID: R183513	TestNo: E524.2	Analysis Date: 4/9/2024	SeqNo: 4975898							
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
 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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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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QC SUMMARY REPORT

WO#: 24040529

16-Apr-24

Client: Columbiana County Health District

Project: EP

BatchID: R183513

Sample ID: MB-R183513	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183513							
Client ID: PBW	Batch ID: R183513	TestNo: E524.2	Analysis Date: 4/9/2024	SeqNo: 4975898							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.99		10.00		89.9	70	130				
Surr: 4-Bromofluorobenzene	9.23		10.00		92.3	70	130				

Sample ID: 24040529-001CDUP	SampType: DUP	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 183513							
Client ID: PW-1164	Batch ID: R183513	TestNo: E524.2	Analysis Date: 4/9/2024	SeqNo: 4975900							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	ND	0.500						0	0	20	
1,2,4-Trimethylbenzene	ND	0.500						0	0	20	
Benzene	ND	0.500						0	0	20	
Ethylbenzene	ND	0.500						0	0	20	
m,p-Xylene	ND	0.500						0	0	20	
Naphthalene	ND	0.500						0	0	20	
o-Xylene	ND	0.500						0	0	20	
Toluene	ND	0.500						0	0	20	
Vinyl chloride	ND	0.500						0	0	20	
Surr: 1,2-Dichlorobenzene-d4	9.55		10.00		95.5	70	130		0	20	
Surr: 4-Bromofluorobenzene	9.82		10.00		98.2	70	130		0	20	

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.



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#: **24040529**
16-Apr-24

Client: Columbiana County Health District
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24040529-001A	PW-1164	4/5/2024 12:00:00 PM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 12:34:00 AM
24040529-001B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 7:37:00 PM
24040529-001C				VOC-GC/MS (524.2)			4/9/2024 1:23:00 PM
24040529-001D				VOC by GC/MS (8260D)			4/9/2024 12:14:00 PM
24040529-002A	dupe	4/5/2024		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 1:07:00 AM
24040529-002B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 8:08:00 PM
24040529-002C				VOC-GC/MS (524.2)			4/9/2024 2:27:00 PM
24040529-002D				VOC by GC/MS (8260D)			4/9/2024 1:50:00 PM
24040529-003A	PW-362	4/5/2024 3:05:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 2:47:00 AM
24040529-003B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 8:39:00 PM
24040529-003C				VOC-GC/MS (524.2)			4/9/2024 2:59:00 PM
24040529-003D				VOC by GC/MS (8260D)			4/9/2024 2:14:00 PM
24040529-004A	PW-15	4/5/2024 1:55:00 PM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 3:20:00 AM
24040529-004B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 9:11:00 PM
24040529-004C				VOC-GC/MS (524.2)			4/9/2024 3:31:00 PM
24040529-004D				VOC by GC/MS (8260D)			4/9/2024 2:38:00 PM
24040529-005A	PW-1010	4/5/2024 9:50:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 3:53:00 AM
24040529-005B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 9:42:00 PM
24040529-005C				VOC-GC/MS (524.2)			4/9/2024 4:03:00 PM
24040529-005D				VOC by GC/MS (8260D)			4/9/2024 3:02:00 PM
24040529-006A	PW-330	4/5/2024 11:00:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 4:27:00 AM

Original



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#: 24040529
 16-Apr-24

Client: Columbiana County Health District
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24040529-006B	PW-330	4/5/2024 11:00:00 AM	Drinking Water	SVOC by 8270E		4/11/2024 12:30:00 PM	4/12/2024 10:14:00 PM
24040529-006C				VOC-GC/MS (524.2)			4/9/2024 4:35:00 PM
24040529-006D				VOC by GC/MS (8260D)			4/9/2024 3:25:00 PM
24040529-007A	PW-330 FB	4/5/2024 10:30:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		4/11/2024 9:45:00 AM	4/15/2024 5:00:00 AM
24040529-007B				SVOC by 8270E		4/11/2024 12:30:00 PM	4/13/2024 12:51:00 AM
24040529-007C				VOC-GC/MS (524.2)			4/9/2024 5:07:00 PM
24040529-007D				VOC by GC/MS (8260D)			4/9/2024 3:49:00 PM
24040529-008A	Trip Blank 1			VOC-GC/MS (524.2)			4/9/2024 5:40:00 PM
24040529-008B				VOC by GC/MS (8260D)			4/9/2024 4:13:00 PM
24040529-009A	Trip Blank 2			VOC-GC/MS (524.2)			4/9/2024 6:12:00 PM
24040529-009B				VOC by GC/MS (8260D)			4/9/2024 4:37:00 PM
24040529-010A	Trip Blank 3			VOC-GC/MS (524.2)			4/9/2024 6:44:00 PM
24040529-010B				VOC by GC/MS (8260D)			4/9/2024 5:01:00 PM
24040529-011A	Trip Blank 4			VOC-GC/MS (524.2)			4/9/2024 7:16:00 PM
24040529-011B				VOC by GC/MS (8260D)			4/9/2024 5:24:00 PM

Original



Analysis Request / Chain of Custody

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WO
24040529
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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)		Analytical Parameters and Methods Requested											
330-424-0272		CC HD				Number of Containers per Sample 524 8270 525.2 8260											
Contact Person Kevin Summerville		PO #										Quote Number		For DW Only: Special Compliance or Routine (S/R)			
Client Email Address ksummerville@columbiana-health.org		PWS ID PW-1164										Facility ID					
Sampled By (Print Name and Provide Signature) Print: Alex S. Lutton Sign: <i>[Signature]</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								
	PW-1164	outside hydrant	4/8/24	12:00 PM	✓		DW	8	10	X	X	X	X				
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:										
<i>[Signature]</i>		4/8/24	8:45 AM	<i>[Signature]</i>	4/8/24	8:45	524-HCl, 8260-HCl, 525.2-unknown										
<i>[Signature]</i>		4/8/24	12:14				1.5-0.2 CS intact - 4/8/24										
Received at Summit by:		Date	Time	Carrier	Received Temp.:		Other Container:										
<i>[Signature]</i>		APR 08 2024	12:15	SET	1.3 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED										

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Analysis Request / Chain of Custody

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Client Name: CCHD		Project Identification: FP		Analytical Parameters and Methods Requested													
[Redacted]		[Redacted]															
330-724-0272		CCHD															
Contact Person: Kevin Summerville		PO #		Quote Number													
Client Email Address: ksummerville@columbiana-health.com		PWS ID: dup		Facility ID													
Sampled By (Print Name and Provide Signature): Alexis Kuntz		Reporting/Accreditation Requirements:															
Print: Alexis Kuntz		<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: 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	8270	525.2	8260	For DW Only: Special Compliance or Routine (S/R)			
	dup	outside spigot	4/8/24		✓	DW	8	10	X	X	X	X					
Relinquished by: [Signature]		Date: 4/8/24	Time: 8:45 am	Received by: [Signature]	Date: 4/8/24	Time: 845	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown										
[Signature]		Date: 4/8/24	Time: 12:14			1.0-0.2 CS intact - 4/8/24											
						Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO							
Received at Summit by: [Signature]		Date: APR 08 2024	Time: 12 15	Carrier: SET	Page 37 of 43		Received Temp.: 0.8 °C		Other Container: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED								
				Must be approved by Lab Manager													



Analysis Request / Chain of Custody

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Client Name: CCHD		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																
Contact Phone: 330-424-0272		Report to: CCHD							524	8270	525.2	8260													For DW Only: Special Compliance or Routine (S/R)
Contact Person: Kevin Summerville		PO #: DW-362																							
Client Email Address: ksommerville@columbiacountyhealth.com		PWS ID: DW-362							Facility ID																
Sampled By (Print Name and Provide Signature): Alexis Lantieri		Reporting/Accreditation Requirements:																							
Print: Alexis Lantieri		<input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu																							
Sign: [Signature]		<input type="checkbox"/> Drinking Water Compliance																							
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		<input type="checkbox"/> Other Compliance (List State/ Program):																							
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	524	8270	525.2	8260												
	DW-362	basement spigot	4/5/24	3:05 PM	✓		DW		8 10	X	X	X	X												
Relinquished by: [Signature]		Date: 4/8/24	Time: 6:45 AM	Received by: [Signature]		Date: 4/8/24	Time: 8:45	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown																	
		Date: 4/8/24	Time: 12:14					1.7-0.2 CS intact 4/8/24																	
								Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																	
Received at Summit by: [Signature]		Date: APR 08 2024	Time: 12:15	Carrier: SET		Run Page 38 of 43 Day(s)		Received Temp.: 1.5 °C		Other Container: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED															
						Must be approved by Lab Manager																			



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Client Name CCHD		Project Identification FP		Analytical Parameters and Methods Requested											
Client Phone 330-424-0272		Report To CCHD													
Contact Person Fevia Summerville		PO #		Quote Number		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)									
Client Email Address ksummerville@columbiana-health.com		PWS ID PW-15		Facility ID											
Sampled By (Print Name and Provide Signature) Print: Alexis Lorton Sign: <i>[Signature]</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	Number of Containers per Sample					For DW Only: Special Compliance or Routine (S/R)			
	PW-15	basement spigot	4/8/24	1:55P	<input checked="" type="checkbox"/>	DW	8	10	X	X	X	X			
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:								
<i>[Signature]</i>		4/8/24	8:45 am	Z	4/8/24	845	524-HCl, 8260-HCl, 525.2-unknown								
Z		4/8/24	12:14				1.7-0.2 es intact - 4/8/24								
						Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO							
Received at Summit by:		Date	Time	Carrier	Run Page 39 of 43 Day(s)		Received Temp.:		Other Container:						
<i>[Signature]</i>		APR 08 2024	12:15	SET	Must be approved by Lab Manager		1.5 °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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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 #		Quote Number													
Client Email Address ksummerville@columbiana-health.org		PWS ID DW-1010		Facility ID													
Sampled By (Print Name and Provide Signature) Alexis Layton		Reporting/Accreditation Requirements:															
Print: Alexis Layton		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu													
Sign: [Signature]		<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	8270	525.2	8260				
	DW-1010	spigot in well unit	4/5/24	9:50 AM	✓		DW	8	10	X	X	X	X				
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:										
[Signature]		4/8/24	8:45 AM	[Signature]	4/8/24	8:45	524-HCl, 8260-HCl, 525.2-unknown										
[Signature]		4/8/24	12:14				1.0-0.2 CS intact - 4/8/24										
							Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO										
Received at Summit by:		Date	Time	Carrier	Received Temp.:		Other Container:										
Anthony B...		APR 08 2024	12:15	SET	0.8 °C		Ice Present? <input checked="" 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
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NO.: For Summit Environmental Technologies, Inc. use only

Client Name CC HD		Project Identification FP		Analytical Parameters and Methods Requested											
[Redacted]		[Redacted]													
Contact Person Kevin Summerville		PO #		Quote Number		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)									
Client Email Address ksummerville@columbiana-health.org		PWS ID PW 330		Facility ID											
Print: Alexis Layton		Reporting/Accreditation Requirements:													
Sign: <i>[Signature]</i>		<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	Number of Containers per Sample					For DW Only: Special Compliance or Routine (S/R)			
	PW 330	outside spigot	4/8/24	11:00 AM	✓	DW	8	10	X	X	X	X			
	PW 330	field blank	4/8/24	10:30 AM	✓	L	8	10	X	X	X	X			
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:								
<i>[Signature]</i>		4/8/24	8:45 AM	<i>[Signature]</i>	4/8/24	8:45	524-HCl, 8260-HCl, 525.2-unknown								
<i>[Signature]</i>		4/8/24	12:14				1.5-0.2, 2.3-0.2 CS intact - 4/8/24								
							Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
Received at Summit by:		Date	Time	Carrier	Received Temp.:		Other Container:								
<i>[Signature]</i>		APR 08 2024	12:15	SET	1.3, 2.1 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED								



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

Sample Log-In Check List

Client Name: COL-OH-44432 Work Order Number: 24040529 RcptNo: 1

Logged by:	Anthony W. Britton	4/8/2024 12:15:00 PM	
Completed By:	Anthony W. Britton	4/8/2024 4:42:56 PM	
Reviewed By:	Salwa A. Najjar	4/8/2024 5:19:23 PM	

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: 4/8/2024 Signed By:
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	0.8	Good	Yes	N/A	4/8/2024	
2	1.3	Good	Yes	N/A	4/8/2024	
3	1.5	Good	Yes	N/A	4/8/2024	



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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: COL-OH-44432

Work Order Number: 24040529

RcptNo: 1

4	2.1	Good	Yes	N/A	4/8/2024
---	-----	------	-----	-----	----------