



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 29, 2024

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

Order No.: 24051075

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 9 sample(s) on 5/14/2024 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,

Salwa A. Najjar

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#: 24051075
 29-May-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24051075-001	PW-435		5/13/2024 3:20:00 PM	5/14/2024 12:55:00 PM	Drinking Water
24051075-001	PW-435		5/13/2024 3:20:00 PM	5/14/2024 12:55:00 PM	Drinking Water
24051075-001	PW-435		5/13/2024 3:20:00 PM	5/14/2024 12:55:00 PM	Drinking Water
24051075-001	PW-435		5/13/2024 3:20:00 PM	5/14/2024 12:55:00 PM	Drinking Water
24051075-002	DUP		5/13/2024	5/14/2024 12:55:00 PM	Drinking Water
24051075-002	DUP		5/13/2024	5/14/2024 12:55:00 PM	Drinking Water
24051075-002	DUP		5/13/2024	5/14/2024 12:55:00 PM	Drinking Water
24051075-002	DUP		5/13/2024	5/14/2024 12:55:00 PM	Drinking Water
24051075-003	PW-575FB		5/13/2024 9:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-003	PW-575FB		5/13/2024 9:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-003	PW-575FB		5/13/2024 9:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-003	PW-575FB		5/13/2024 9:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-004	PW-575		5/13/2024 9:45:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-004	PW-575		5/13/2024 9:45:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-004	PW-575		5/13/2024 9:45:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-004	PW-575		5/13/2024 9:45:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-005	PW-327		5/13/2024 10:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-005	PW-327		5/13/2024 10:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-005	PW-327		5/13/2024 10:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-005	PW-327		5/13/2024 10:25:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-006	PW-328		5/13/2024 11:20:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-006	PW-328		5/13/2024 11:20:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-006	PW-328		5/13/2024 11:20:00 AM	5/14/2024 12:55:00 PM	Drinking Water



SUMMIT
 ENVIRONMENTAL TECHNOLOGIES, INC
 Analytical Laboratories

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Workorder
Sample Summary
 WO#: **24051075**
29-May-24

CLIENT: Columbiana County Health District
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24051075-006	PW-328		5/13/2024 11:20:00 AM	5/14/2024 12:55:00 PM	Drinking Water
24051075-007	Trip Blank 1			5/14/2024 12:55:00 PM	Drinking Water
24051075-007	Trip Blank 1			5/14/2024 12:55:00 PM	Drinking Water
24051075-008	Trip Blank 2			5/14/2024 12:55:00 PM	Drinking Water
24051075-008	Trip Blank 2			5/14/2024 12:55:00 PM	Drinking Water
24051075-009	Trip Blank 3			5/14/2024 12:55:00 PM	Drinking Water
24051075-009	Trip Blank 3			5/14/2024 12:55:00 PM	Drinking Water



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Case Narrative

WO#: 24051075
Date: 5/29/2024

CLIENT: Columbiana County Health District

Project: EP

WorkOrder Narrative:

24051075: 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:

24051075: 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:

24051075-004A 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District **Collection Date:** 5/13/2024 3:20:00 PM
Project: EP
Lab ID: 24051075-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-435

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	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Anthracene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Benz(a)anthracene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Benzo(a)pyrene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Benzo(k)fluoranthene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Chrysene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Fluorene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	5/27/2024 11:51:00 PM
Phenanthrene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Pyrene	ND	0.0962		µg/L	1	5/27/2024 11:51:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	78.8	70 - 130		%Rec	1	5/27/2024 11:51:00 PM
Surr: Benzo(a)pyrene-d12	75.4	70 - 130		%Rec	1	5/27/2024 11:51:00 PM
Surr: Triphenyl phosphate	89.4	70 - 130		%Rec	1	5/27/2024 11:51:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	5/18/2024 1:09:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	5/18/2024 1:09:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	5/18/2024 1:09:00 AM
Acenaphthene	ND	0.980		µg/L	1	5/18/2024 1:09:00 AM
Fluoranthene	ND	0.980		µg/L	1	5/18/2024 1:09:00 AM
Surr: Nitrobenzene-d5	69.4	10 - 130		%Rec	1	5/18/2024 1:09:00 AM
Surr: 2-Fluorobiphenyl	65.6	10 - 130		%Rec	1	5/18/2024 1:09:00 AM
Surr: p-Terphenyl-d14	85.8	20 - 181		%Rec	1	5/18/2024 1:09:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 8:54:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District **Collection Date:** 5/13/2024 3:20:00 PM
Project: EP
Lab ID: 24051075-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-435

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 8:54:00 PM
Surr: 1,2-Dichlorobenzene-d4	91.0	70 - 130		%Rec	1	5/15/2024 8:54:00 PM
Surr: 4-Bromofluorobenzene	88.5	70 - 130		%Rec	1	5/15/2024 8:54:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 2:45:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 2:45:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	5/15/2024 2:45:00 PM
Surr: Dibromofluoromethane	99.4	70 - 130		%Rec	1	5/15/2024 2:45:00 PM
Surr: Toluene-d8	98.7	70 - 130		%Rec	1	5/15/2024 2:45:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024

Project: EP

Lab ID: 24051075-002

Matrix: DRINKING WATER

Client Sample ID: DUP

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	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Anthracene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Benz(a)anthracene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Benzo(a)pyrene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Benzo(b)fluoranthene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Benzo(g,h,i)perylene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Benzo(k)fluoranthene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Chrysene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Dibenz(a,h)anthracene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Fluorene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.962		µg/L	1	5/28/2024 12:24:00 AM
Phenanthrene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Pyrene	ND	0.0962		µg/L	1	5/28/2024 12:24:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	84.8	70 - 130		%Rec	1	5/28/2024 12:24:00 AM
Surr: Benzo(a)pyrene-d12	84.6	70 - 130		%Rec	1	5/28/2024 12:24:00 AM
Surr: Triphenyl phosphite	102	70 - 130		%Rec	1	5/28/2024 12:24:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 1:41:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	5/18/2024 1:41:00 AM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 1:41:00 AM
Acenaphthene	ND	0.971		µg/L	1	5/18/2024 1:41:00 AM
Fluoranthene	ND	0.971		µg/L	1	5/18/2024 1:41:00 AM
Surr: Nitrobenzene-d5	73.7	10 - 130		%Rec	1	5/18/2024 1:41:00 AM
Surr: 2-Fluorobiphenyl	68.4	10 - 130		%Rec	1	5/18/2024 1:41:00 AM
Surr: p-Terphenyl-d14	87.3	20 - 181		%Rec	1	5/18/2024 1:41:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 9:26:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024

Project: EP

Lab ID: 24051075-002

Matrix: DRINKING WATER

Client Sample ID: DUP

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 9:26:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.8	70 - 130		%Rec	1	5/15/2024 9:26:00 PM
Surr: 4-Bromofluorobenzene	84.3	70 - 130		%Rec	1	5/15/2024 9:26:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:09:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:09:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	5/15/2024 3:09:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	5/15/2024 3:09:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	5/15/2024 3:09:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 9:25:00 AM

Project: EP

Lab ID: 24051075-003

Matrix: DRINKING WATER

Client Sample ID: PW-575FB

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	5/28/2024 12:57:00 AM
Anthracene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Chrysene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Fluorene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	5/28/2024 12:57:00 AM
Phenanthrene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Pyrene	ND	0.0971		µg/L	1	5/28/2024 12:57:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	81.8	70 - 130		%Rec	1	5/28/2024 12:57:00 AM
Surr: Benzo(a)pyrene-d12	89.2	70 - 130		%Rec	1	5/28/2024 12:57:00 AM
Surr: Triphenyl phosphate	101	70 - 130		%Rec	1	5/28/2024 12:57:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.990		µg/L	1	5/18/2024 2:12:00 AM
2-Butoxyethanol	ND	29.7		µg/L	1	5/18/2024 2:12:00 AM
2-Methylnaphthalene	ND	0.990		µg/L	1	5/18/2024 2:12:00 AM
Acenaphthene	ND	0.990		µg/L	1	5/18/2024 2:12:00 AM
Fluoranthene	ND	0.990		µg/L	1	5/18/2024 2:12:00 AM
Surr: Nitrobenzene-d5	74.6	10 - 130		%Rec	1	5/18/2024 2:12:00 AM
Surr: 2-Fluorobiphenyl	70.4	10 - 130		%Rec	1	5/18/2024 2:12:00 AM
Surr: p-Terphenyl-d14	98.0	20 - 181		%Rec	1	5/18/2024 2:12:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 9:57:00 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		



Summit Environmental Technologies, Inc.
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Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District **Collection Date:** 5/13/2024 9:25:00 AM
Project: EP
Lab ID: 24051075-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-575FB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ZDA	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 9:57:00 PM
Surr: 1,2-Dichlorobenzene-d4	88.3	70 - 130		%Rec	1	5/15/2024 9:57:00 PM
Surr: 4-Bromofluorobenzene	84.8	70 - 130		%Rec	1	5/15/2024 9:57:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:33:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:33:00 PM
Surr: 4-Bromofluorobenzene	98.5	70 - 130		%Rec	1	5/15/2024 3:33:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	5/15/2024 3:33:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	5/15/2024 3:33:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 9:45:00 AM

Project: EP

Lab ID: 24051075-004

Matrix: DRINKING WATER

Client Sample ID: PW-575

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	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Anthracene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Benz(a)anthracene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Benzo(a)pyrene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Benzo(b)fluoranthene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Benzo(g,h,i)perylene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Benzo(k)fluoranthene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Chrysene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Dibenz(a,h)anthracene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Fluorene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.625		µg/L	1	5/29/2024 6:30:00 AM
Phenanthrene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Pyrene	ND	0.0625		µg/L	1	5/29/2024 6:30:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	63.0	70 - 130	S	%Rec	1	5/29/2024 6:30:00 AM
Surr: Benzo(a)pyrene-d12	68.9	70 - 130	S	%Rec	1	5/29/2024 6:30:00 AM
Surr: Triphenyl phosphate	82.2	70 - 130		%Rec	1	5/29/2024 6:30:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 2:44:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	5/18/2024 2:44:00 AM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 2:44:00 AM
Acenaphthene	ND	0.971		µg/L	1	5/18/2024 2:44:00 AM
Fluoranthene	ND	0.971		µg/L	1	5/18/2024 2:44:00 AM
Surr: Nitrobenzene-d5	74.4	10 - 130		%Rec	1	5/18/2024 2:44:00 AM
Surr: 2-Fluorobiphenyl	69.9	10 - 130		%Rec	1	5/18/2024 2:44:00 AM
Surr: p-Terphenyl-d14	87.1	20 - 181		%Rec	1	5/18/2024 2:44:00 AM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 10:29:00 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#: **24051075**

Date Reported: **5/29/2024**

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 9:45:00 AM

Project: EP

Lab ID: 24051075-004

Matrix: DRINKING WATER

Client Sample ID: PW-575

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ZDA
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 10:29:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.5	70 - 130		%Rec	1	5/15/2024 10:29:00 PM
Surr: 4-Bromofluorobenzene	81.8	70 - 130		%Rec	1	5/15/2024 10:29:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:57:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 3:57:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	5/15/2024 3:57:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	5/15/2024 3:57:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	5/15/2024 3:57:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 10:25:00 AM

Project: EP

Lab ID: 24051075-005

Matrix: DRINKING WATER

Client Sample ID: PW-327

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	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Anthracene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Benz(a)anthracene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Benzo(a)pyrene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Benzo(b)fluoranthene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Benzo(g,h,i)perylene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Benzo(k)fluoranthene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Chrysene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Dibenz(a,h)anthracene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Fluorene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.583		µg/L	1	5/28/2024 12:02:00 PM
Phenanthrene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Pyrene	ND	0.0583		µg/L	1	5/28/2024 12:02:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	72.7	70 - 130		%Rec	1	5/28/2024 12:02:00 PM
Surr: Benzo(a)pyrene-d12	75.1	70 - 130		%Rec	1	5/28/2024 12:02:00 PM
Surr: Triphenyl phosphate	85.6	70 - 130		%Rec	1	5/28/2024 12:02:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	5/18/2024 3:16:00 AM
2-Butoxyethanol	ND	29.4		µg/L	1	5/18/2024 3:16:00 AM
2-Methylnaphthalene	ND	0.980		µg/L	1	5/18/2024 3:16:00 AM
Acenaphthene	ND	0.980		µg/L	1	5/18/2024 3:16:00 AM
Fluoranthene	ND	0.980		µg/L	1	5/18/2024 3:16:00 AM
Surr: Nitrobenzene-d5	74.2	10 - 130		%Rec	1	5/18/2024 3:16:00 AM
Surr: 2-Fluorobiphenyl	69.8	10 - 130		%Rec	1	5/18/2024 3:16:00 AM
Surr: p-Terphenyl-d14	90.8	20 - 181		%Rec	1	5/18/2024 3:16:00 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	5/16/2024 2:07:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
Benzene	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/16/2024 2:07:00 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		



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Analytical Report

(consolidated)

WO#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 10:25:00 AM

Project: EP

Lab ID: 24051075-005

Matrix: DRINKING WATER

Client Sample ID: PW-327

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	5/16/2024 2:07:00 PM
Naphthalene	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
o-Xylene	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
Toluene	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/16/2024 2:07:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.0	70 - 130		%Rec	1	5/16/2024 2:07:00 PM
Surr: 4-Bromofluorobenzene	86.4	70 - 130		%Rec	1	5/16/2024 2:07:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 4:21:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 4:21:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	5/15/2024 4:21:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	5/15/2024 4:21:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	5/15/2024 4:21:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 11:20:00 AM

Project: EP

Lab ID: 24051075-006

Matrix: DRINKING WATER

Client Sample ID: PW-328

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	5/28/2024 2:37:00 AM
Anthracene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Benz(a)anthracene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Benzo(a)pyrene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Chrysene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Fluorene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.971		µg/L	1	5/28/2024 2:37:00 AM
Phenanthrene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Pyrene	ND	0.0971		µg/L	1	5/28/2024 2:37:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	82.6	70 - 130		%Rec	1	5/28/2024 2:37:00 AM
Surr: Benzo(a)pyrene-d12	89.4	70 - 130		%Rec	1	5/28/2024 2:37:00 AM
Surr: Triphenyl phosphate	105	70 - 130		%Rec	1	5/28/2024 2:37:00 AM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 3:47:00 AM
2-Butoxyethanol	ND	29.1		µg/L	1	5/18/2024 3:47:00 AM
2-Methylnaphthalene	ND	0.971		µg/L	1	5/18/2024 3:47:00 AM
Acenaphthene	ND	0.971		µg/L	1	5/18/2024 3:47:00 AM
Fluoranthene	ND	0.971		µg/L	1	5/18/2024 3:47:00 AM
Surr: Nitrobenzene-d5	86.5	10 - 130		%Rec	1	5/18/2024 3:47:00 AM
Surr: 2-Fluorobiphenyl	75.9	10 - 130		%Rec	1	5/18/2024 3:47:00 AM
Surr: p-Terphenyl-d14	86.8	20 - 181		%Rec	1	5/18/2024 3:47:00 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	5/16/2024 2:39:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
Benzene	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/16/2024 2:39:00 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#: **24051075**

Date Reported: **5/29/2024**

CLIENT: Columbiana County Health District

Collection Date: 5/13/2024 11:20:00 AM

Project: EP

Lab ID: 24051075-006

Matrix: DRINKING WATER

Client Sample ID: PW-328

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	5/16/2024 2:39:00 PM
Naphthalene	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
o-Xylene	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
Toluene	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/16/2024 2:39:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.7	70 - 130		%Rec	1	5/16/2024 2:39:00 PM
Surr: 4-Bromofluorobenzene	89.1	70 - 130		%Rec	1	5/16/2024 2:39:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 4:45:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 4:45:00 PM
Surr: 4-Bromofluorobenzene	98.8	70 - 130		%Rec	1	5/15/2024 4:45:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	5/15/2024 4:45:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	5/15/2024 4:45:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24051075-007

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: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 7:51:00 PM
Surr: 1,2-Dichlorobenzene-d4	88.4	70 - 130		%Rec	1	5/15/2024 7:51:00 PM
Surr: 4-Bromofluorobenzene	82.8	70 - 130		%Rec	1	5/15/2024 7:51:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:08:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:08:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	5/15/2024 5:08:00 PM
Surr: Dibromofluoromethane	106	70 - 130		%Rec	1	5/15/2024 5:08:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	5/15/2024 5:08:00 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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 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24051075-008

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: ZDA
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Benzene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
m,p-Xylene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Naphthalene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
o-Xylene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Toluene	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/15/2024 8:23:00 PM
Surr: 1,2-Dichlorobenzene-d4	87.6	70 - 130		%Rec	1	5/15/2024 8:23:00 PM
Surr: 4-Bromofluorobenzene	83.3	70 - 130		%Rec	1	5/15/2024 8:23:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:32:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:32:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	5/15/2024 5:32:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	5/15/2024 5:32:00 PM
Surr: Toluene-d8	99.8	70 - 130		%Rec	1	5/15/2024 5:32:00 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#: 24051075

Date Reported: 5/29/2024

CLIENT: Columbiana County Health District

Collection Date:

Project: EP

Lab ID: 24051075-009

Matrix: DRINKING WATER

Client Sample ID: Trip Blank 3

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	5/16/2024 1:36:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Benzene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Ethylbenzene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
m,p-Xylene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Naphthalene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
o-Xylene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Toluene	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Vinyl chloride	ND	0.500		µg/L	1	5/16/2024 1:36:00 PM
Surr: 1,2-Dichlorobenzene-d4	89.4	70 - 130		%Rec	1	5/16/2024 1:36:00 PM
Surr: 4-Bromofluorobenzene	83.8	70 - 130		%Rec	1	5/16/2024 1:36:00 PM

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

SW8260

Analyst: ZDA

2-Ethylhexyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:56:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	5/15/2024 5:56:00 PM
Surr: 4-Bromofluorobenzene	98.7	70 - 130		%Rec	1	5/15/2024 5:56:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	5/15/2024 5:56:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	5/15/2024 5:56:00 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#: 24051075

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 75380

Sample ID: MB-75380	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: PBW	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/17/2024	SeqNo: 5037236						
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	0.0224		0.05000		44.8	10	130				
Surr: Phenol-d6	0.0145		0.05000		29.0	10	130				
Surr: Nitrobenzene-d5	0.0382		0.05000		76.3	10	130				
Surr: 2,4,6-Tribromophenol	0.0322		0.05000		64.3	19	151				
Surr: 2-Fluorobiphenyl	0.0360		0.05000		71.9	10	130				
Surr: p-Terphenyl-d14	0.0454		0.05000		90.9	20	181				

Sample ID: LCS-75380	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: LCSW	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/17/2024	SeqNo: 5037237						
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	30.4	5.00	40.0	0	75.9	33	130				
2-Methylnaphthalene	30.1	5.00	40.0	0	75.3	32	130				
Acenaphthene	33.8	5.00	40.0	0	84.5	44	130				
Fluoranthene	35.8	5.00	40.0	0	89.6	63	130				
Surr: 2-Fluorophenol	0.0225		0.05000		45.1	10	130				
Surr: Phenol-d6	0.0173		0.05000		34.6	10	130				
Surr: Nitrobenzene-d5	0.0426		0.05000		85.2	10	130				
Surr: 2,4,6-Tribromophenol	0.0417		0.05000		83.3	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#: **24051075**
 29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75380

Sample ID: LCS-75380	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: LCSW	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/17/2024	SeqNo: 5037237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0416		0.05000		83.3	10	130				
Surr: p-Terphenyl-d14	0.0474		0.05000		94.8	20	181				

Sample ID: 24051140-002BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: BatchQC	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/18/2024	SeqNo: 5037250						
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				
1-Methylnaphthalene	24.8	4.90	39.2	0	63.2	45	130				
2-Methylnaphthalene	22.9	4.90	39.2	0	58.4	42	134				
Acenaphthene	29.8	4.90	39.2	0	76.1	52	128				
Fluoranthene	35.7	4.90	39.2	0	91.1	61	136				
Surr: 2-Fluorophenol	0.0204		0.04902		41.6	10	130				
Surr: Phenol-d6	0.0137		0.04902		27.9	10	130				
Surr: Nitrobenzene-d5	0.0394		0.04902		80.4	10	130				
Surr: 2,4,6-Tribromophenol	0.0363		0.04902		74.1	19	151				
Surr: 2-Fluorobiphenyl	0.0355		0.04902		72.5	10	130				
Surr: p-Terphenyl-d14	0.0439		0.04902		89.6	20	181				

Sample ID: 24051140-002BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: BatchQC	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/18/2024	SeqNo: 5037251						
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	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	M Manual Integration used to determine area response	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits
	W Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75380

Sample ID: 24051140-002BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 5/16/2024	RunNo: 185795						
Client ID: BatchQC	Batch ID: 75380	TestNo: SW8270	SW3510C	Analysis Date: 5/18/2024	SeqNo: 5037251						
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	
1-Methylnaphthalene	25.7	4.90	39.2	0	65.4	45	130	24.8	3.46	30	
2-Methylnaphthalene	23.8	4.90	39.2	0	60.6	42	134	22.9	3.70	30	
Acenaphthene	31.1	4.90	39.2	0	79.2	52	128	29.8	4.03	30	
Fluoranthene	36.6	4.90	39.2	0	93.3	61	136	35.7	2.39	30	
Surr: 2-Fluorophenol	0.0194		0.04902		39.6	10	130		0		
Surr: Phenol-d6	0.0131		0.04902		26.8	10	130		0		
Surr: Nitrobenzene-d5	0.0433		0.04902		88.3	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0388		0.04902		79.2	19	151		0		
Surr: 2-Fluorobiphenyl	0.0414		0.04902		84.5	10	130		0		
Surr: p-Terphenyl-d14	0.0448		0.04902		91.4	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 exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 24051075
 29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75505

Sample ID: 24051140-002AMS	SampType: MS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186342						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/28/2024	SeqNo: 5049339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.83	0.0971	4.854	0	79.0	70	130				
Anthracene	4.07	0.0971	4.854	0	83.8	70	130				
Benz(a)anthracene	4.99	0.0971	4.854	0	103	70	130				
Benzo(a)pyrene	4.39	0.0971	4.854	0	90.4	70	130				
Benzo(b)fluoranthene	4.65	0.0971	4.854	0	95.8	70	130				
Benzo(g,h,i)perylene	4.85	0.0971	4.854	0	100	70	130				
Benzo(k)fluoranthene	4.74	0.0971	4.854	0	97.6	70	130				
Chrysene	4.79	0.0971	4.854	0	98.6	70	130				
Dibenz(a,h)anthracene	5.13	0.0971	4.854	0	106	70	130				
Fluorene	4.68	0.0971	4.854	0	96.4	70	130				
Indeno(1,2,3-cd)pyrene	5.17	0.971	4.854	0	107	70	130				
Phenanthrene	4.39	0.0971	4.854	0	90.4	70	130				
Pyrene	4.45	0.0971	4.854	0	91.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	3.99		4.854		82.2	70	130				
Surr: Benzo(a)pyrene-d12	4.53		4.854		93.4	70	130				
Surr: Triphenyl phosphate	4.45		4.854		91.6	70	130				

Sample ID: 24051140-002AMSD	SampType: MSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186342						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/28/2024	SeqNo: 5049355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.74	0.0980	4.902	0	76.2	70	130	3.835	2.63	30	
Anthracene	4.01	0.0980	4.902	0	81.8	70	130	4.068	1.44	30	
Benz(a)anthracene	4.95	0.0980	4.902	0	101	70	130	4.990	0.791	30	
Benzo(a)pyrene	4.09	0.0980	4.902	0	83.4	70	130	4.388	7.08	30	

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	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: **24051075**

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 75505

Sample ID: 24051140-002AMSD	SampType: MSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186342						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/28/2024	SeqNo: 5049355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.62	0.0980	4.902	0	94.2	70	130	4.650	0.709	30	
Benzo(g,h,i)perylene	4.58	0.0980	4.902	0	93.4	70	130	4.854	5.85	30	
Benzo(k)fluoranthene	4.70	0.0980	4.902	0	95.8	70	130	4.738	0.886	30	
Chrysene	4.77	0.0980	4.902	0	97.4	70	130	4.786	0.249	30	
Dibenz(a,h)anthracene	4.96	0.0980	4.902	0	101	70	130	5.126	3.28	30	
Fluorene	4.59	0.0980	4.902	0	93.6	70	130	4.680	1.97	30	
Indeno(1,2,3-cd)pyrene	4.72	0.980	4.902	0	96.2	70	130	5.175	9.28	30	m
Phenanthrene	4.34	0.0980	4.902	0	88.6	70	130	4.388	1.04	30	
Pyrene	4.34	0.0980	4.902	0	88.6	70	130	4.447	2.35	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	3.85		4.902		78.6	70	130		0	0	
Surr: Benzo(a)pyrene-d12	4.36		4.902		89.0	70	130		0	0	
Surr: Triphenyl phosphate	4.65		4.902		94.8	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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QC SUMMARY REPORT

WO#: 24051075

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: 75505

Sample ID: MB-75505	SampType: MBLK	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: PBW	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047005						
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-nitrobe...	3.27		5.000		65.4	70	130				S
Surr: Benzo(a)pyrene-d12	3.94		5.000		78.8	70	130				
Surr: Triphenyl phosphate	4.99		5.000		99.8	70	130				

Sample ID: LCS-75505	SampType: LCS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: LCSW	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.06	0.100	5.000	0	81.2	70	130				
Anthracene	4.45	0.100	5.000	0	89.0	70	130				
Benz(a)anthracene	5.45	0.100	5.000	0	109	70	130				
Benzo(a)pyrene	5.11	0.100	5.000	0	102	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#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75505

Sample ID: LCS-75505	SampType: LCS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: LCSW	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	5.20	0.100	5.000	0	104	70	130				
Benzo(g,h,i)perylene	5.29	0.100	5.000	0	106	70	130				
Benzo(k)fluoranthene	5.12	0.100	5.000	0	102	70	130				
Chrysene	5.55	0.100	5.000	0	111	70	130				
Dibenz(a,h)anthracene	5.46	0.100	5.000	0	109	70	130				
Fluorene	4.93	0.100	5.000	0	98.6	70	130				
Indeno(1,2,3-cd)pyrene	5.72	1.00	5.000	0	114	70	130				
Phenanthrene	4.91	0.100	5.000	0	98.2	70	130				
Pyrene	4.96	0.100	5.000	0	99.2	70	130				
Surr: 1,3-Dimethyl-2-nitrobenz...	3.77		5.000		75.4	70	130				
Surr: Benzo(a)pyrene-d12	4.87		5.000		97.4	70	130				
Surr: Triphenyl phosphate	4.90		5.000		98.0	70	130				

Sample ID: 24050843-001AMS	SampType: MS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.65	0.0971	4.854	0	75.2	70	130				
Anthracene	4.05	0.0971	4.854	0	83.4	70	130				
Benz(a)anthracene	4.71	0.0971	4.854	0	97.0	70	130				
Benzo(a)pyrene	4.41	0.0971	4.854	0	90.8	70	130				
Benzo(b)fluoranthene	4.53	0.0971	4.854	0	93.4	70	130				
Benzo(g,h,i)perylene	4.50	0.0971	4.854	0	92.8	70	130				
Benzo(k)fluoranthene	4.50	0.0971	4.854	0	92.8	70	130				
Chrysene	4.85	0.0971	4.854	0	100	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#: **24051075**

29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75505

Sample ID: 24050843-001AMS	SampType: MS	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	4.78	0.0971	4.854	0	98.4	70	130				
Fluorene	4.50	0.0971	4.854	0	92.6	70	130				
Indeno(1,2,3-cd)pyrene	4.68	0.971	4.854	0	96.4	70	130				
Phenanthrene	4.39	0.0971	4.854	0	90.4	70	130				
Pyrene	4.35	0.0971	4.854	0	89.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	3.67		4.854		75.6	70	130				
Surr: Benzo(a)pyrene-d12	3.85		4.854		79.4	70	130				
Surr: Triphenyl phosphate	4.29		4.854		88.4	70	130				

Sample ID: 24050843-001AMSD	SampType: MSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047009						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.57	0.0971	4.854	0	73.6	70	130	3.650	2.15	30	
Anthracene	3.83	0.0971	4.854	0	78.8	70	130	4.049	5.67	30	
Benz(a)anthracene	4.76	0.0971	4.854	0	98.0	70	130	4.709	1.03	30	
Benzo(a)pyrene	4.24	0.0971	4.854	0	87.4	70	130	4.408	3.82	30	
Benzo(b)fluoranthene	4.42	0.0971	4.854	0	91.0	70	130	4.534	2.60	30	
Benzo(g,h,i)perylene	4.45	0.0971	4.854	0	91.6	70	130	4.505	1.30	30	
Benzo(k)fluoranthene	4.44	0.0971	4.854	0	91.4	70	130	4.505	1.52	30	
Chrysene	4.49	0.0971	4.854	0	92.4	70	130	4.854	7.90	30	
Dibenz(a,h)anthracene	4.59	0.0971	4.854	0	94.6	70	130	4.777	3.94	30	
Fluorene	4.18	0.0971	4.854	0	86.2	70	130	4.495	7.16	30	
Indeno(1,2,3-cd)pyrene	4.52	0.971	4.854	0	93.2	70	130	4.680	3.38	30	
Phenanthrene	4.17	0.0971	4.854	0	85.8	70	130	4.388	5.22	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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QC SUMMARY REPORT

WO#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: 75505

Sample ID: 24050843-001AMSD	SampType: MSD	TestCode: SVOC_DW(5)	Units: µg/L	Prep Date: 5/21/2024	RunNo: 186272						
Client ID: BatchQC	Batch ID: 75505	TestNo: E525	525	Analysis Date: 5/24/2024	SeqNo: 5047009						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	4.23	0.0971	4.854	0	87.2	70	130	4.350	2.71	30	
Surr: 1,3-Dimethyl-2-nitrobenz...	3.46		4.854		71.2	70	130		0	0	
Surr: Benzo(a)pyrene-d12	3.50		4.854		72.2	70	130		0	0	
Surr: Triphenyl phosphate	3.94		4.854		81.2	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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QC SUMMARY REPORT

WO#: **24051075**

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R185631

Sample ID: LCS-R185631	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 185631						
Client ID: LCSW	Batch ID: R185631	TestNo: SW8260		Analysis Date: 5/15/2024	SeqNo: 5030566						
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	96.3	70	130				
n-Butyl acrylate	18.9	5.00	20.00	0	94.4	70	130				
Surr: 4-Bromofluorobenzene	56.8		50.00		114	70	130				
Surr: Dibromofluoromethane	50.0		50.00		100	70	130				
Surr: Toluene-d8	52.0		50.00		104	70	130				

Sample ID: MB-R185631	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 185631						
Client ID: PBW	Batch ID: R185631	TestNo: SW8260		Analysis Date: 5/15/2024	SeqNo: 5030569						
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	51.0		50.00		102	70	130				
Surr: Dibromofluoromethane	50.8		50.00		102	70	130				
Surr: Toluene-d8	50.7		50.00		101	70	130				

Sample ID: 24051074-001EMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 185631						
Client ID: BatchQC	Batch ID: R185631	TestNo: SW8260		Analysis Date: 5/15/2024	SeqNo: 5030590						
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	23.6	5.00	20.00	0	118	70	130				
Surr: 4-Bromofluorobenzene	56.8		50.00		114	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#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: R185631

Sample ID: 24051074-001EMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 185631						
Client ID: BatchQC	Batch ID: R185631	TestNo: SW8260	Analysis Date: 5/15/2024	SeqNo: 5030590							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	50.3		50.00		101	70	130				
Surr: Toluene-d8	51.7		50.00		103	46.1	154				

Sample ID: 24051074-001EMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 185631						
Client ID: BatchQC	Batch ID: R185631	TestNo: SW8260	Analysis Date: 5/15/2024	SeqNo: 5030603							
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	21.40	3.52	20	
n-Butyl acrylate	20.7	5.00	20.00	0	104	70	130	23.56	12.8	20	
Surr: 4-Bromofluorobenzene	56.7		50.00		113	70	130		0	20	
Surr: Dibromofluoromethane	50.0		50.00		100	70	130		0	20	
Surr: Toluene-d8	51.5		50.00		103	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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QC SUMMARY REPORT

WO#: **24051075**

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R185652

Sample ID: LCS-R185652	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185652							
Client ID: LCSW	Batch ID: R185652	TestNo: E524.2	Analysis Date: 5/15/2024	SeqNo: 5030940							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.34	0.500	5.000	0	107	70	130				
1,2,4-Trimethylbenzene	4.66	0.500	5.000	0	93.2	70	130				
Benzene	5.03	0.500	5.000	0	101	70	130				
Ethylbenzene	4.58	0.500	5.000	0	91.5	70	130				
m,p-Xylene	9.88	0.500	10.00	0	98.8	70	130				
Naphthalene	4.61	0.500	5.000	0	92.2	70	130				
o-Xylene	4.82	0.500	5.000	0	96.4	70	130				
Toluene	4.71	0.500	5.000	0	94.3	70	130				
Vinyl chloride	5.32	0.500	5.000	0	106	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.2		10.00		102	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		103	70	130				

Sample ID: MB-R185652	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185652							
Client ID: PBW	Batch ID: R185652	TestNo: E524.2	Analysis Date: 5/15/2024	SeqNo: 5030943							
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 exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **24051075**

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R185652

Sample ID: MB-R185652	SampType: MBLK	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 185652							
Client ID: PBW	Batch ID: R185652	TestNo: E524.2	Analysis Date: 5/15/2024	SeqNo: 5030943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.82		10.00		88.2	70	130				
Surr: 4-Bromofluorobenzene	8.48		10.00		84.8	70	130				

Sample ID: 24050843-001CMS	SampType: MS	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 185652							
Client ID: BatchQC	Batch ID: R185652	TestNo: E524.2	Analysis Date: 5/15/2024	SeqNo: 5030961							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	5.92	0.500	5.000	0	118	70	130				
1,2,4-Trimethylbenzene	4.89	0.500	5.000	0	97.8	70	130				
Benzene	5.37	0.500	5.000	0	107	70	130				
Ethylbenzene	4.82	0.500	5.000	0	96.3	70	130				
m,p-Xylene	10.3	0.500	10.00	0	103	70	130				
Naphthalene	4.37	0.500	5.000	0	87.5	70	130				
o-Xylene	5.01	0.500	5.000	0	100	70	130				
Toluene	4.86	0.500	5.000	0	97.2	70	130				
Vinyl chloride	6.18	0.500	5.000	0	124	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.1		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	10.3		10.00		103	70	130				

Sample ID: 24050843-001CMSD	SampType: MSD	TestCode: VOC_DW(524 Units: µg/L	Prep Date:	RunNo: 185652							
Client ID: BatchQC	Batch ID: R185652	TestNo: E524.2	Analysis Date: 5/15/2024	SeqNo: 5030962							
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#: **24051075**

29-May-24

Client: Columbiana County Health District

Project: EP

BatchID: R185652

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: 24050843-001CMSD SampType: MSD TestCode: VOC_DW(524) Units: µg/L Prep Date: RunNo: 185652											
Client ID: BatchQC Batch ID: R185652 TestNo: E524.2 Analysis Date: 5/15/2024 SeqNo: 5030962											
1,1-Dichloropropene	5.67	0.500	5.000	0	113	70	130	5.924	4.36	25	
1,2,4-Trimethylbenzene	4.96	0.500	5.000	0	99.3	70	130	4.889	1.54	25	
Benzene	5.29	0.500	5.000	0	106	70	130	5.366	1.39	25	
Ethylbenzene	4.73	0.500	5.000	0	94.6	70	130	4.817	1.84	25	
m,p-Xylene	10.2	0.500	10.00	0	102	70	130	10.34	1.27	25	
Naphthalene	4.54	0.500	5.000	0	90.8	70	130	4.373	3.77	25	
o-Xylene	5.23	0.500	5.000	0	105	70	130	5.012	4.26	25	
Toluene	4.92	0.500	5.000	0	98.4	70	130	4.859	1.27	25	
Vinyl chloride	5.84	0.500	5.000	0	117	70	130	6.175	5.51	25	
Surr: 1,2-Dichlorobenzene-d4	10.3		10.00		103	70	130		0	25	
Surr: 4-Bromofluorobenzene	10.5		10.00		105	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



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QC SUMMARY REPORT

WO#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: R185756

Sample ID: LCS-R185756	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185756							
Client ID: LCSW	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033868							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.11	0.500	5.000	0	102	70	130				
1,2,4-Trimethylbenzene	4.70	0.500	5.000	0	93.9	70	130				
Benzene	5.03	0.500	5.000	0	101	70	130				
Ethylbenzene	4.58	0.500	5.000	0	91.6	70	130				
m,p-Xylene	9.60	0.500	10.00	0	96.0	70	130				
Naphthalene	4.36	0.500	5.000	0	87.2	70	130				
o-Xylene	4.69	0.500	5.000	0	93.9	70	130				
Toluene	4.72	0.500	5.000	0	94.4	70	130				
Vinyl chloride	4.80	0.500	5.000	0	96.1	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.4		10.00		104	70	130				
Surr: 4-Bromofluorobenzene	10.4		10.00		104	70	130				

Sample ID: MB-R185756	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185756							
Client ID: PBW	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033871							
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 exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: R185756

Sample ID: MB-R185756	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185756							
Client ID: PBW	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033871							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.84		10.00		88.4	70	130				
Surr: 4-Bromofluorobenzene	8.43		10.00		84.3	70	130				

Sample ID: 24051140-002CMS	SampType: MS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185756							
Client ID: BatchQC	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033973							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	5.25	0.500	5.000	0	105	70	130				
1,2,4-Trimethylbenzene	4.74	0.500	5.000	0	94.8	70	130				
Benzene	5.09	0.500	5.000	0	102	70	130				
Ethylbenzene	4.62	0.500	5.000	0	92.4	70	130				
m,p-Xylene	9.78	0.500	10.00	0	97.8	70	130				
Naphthalene	4.36	0.500	5.000	0	87.2	70	130				
o-Xylene	4.79	0.500	5.000	0	95.8	70	130				
Toluene	4.73	0.500	5.000	0	94.7	70	130				
Vinyl chloride	5.13	0.500	5.000	0	103	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.0		10.00		100	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130				

Sample ID: 24051140-002CMSD	SampType: MSD	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 185756							
Client ID: BatchQC	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033974							
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	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	M Manual Integration used to determine area response	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits
	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>

QC SUMMARY REPORT

WO#: **24051075**
29-May-24

Client: Columbiana County Health District
Project: EP

BatchID: R185756

Sample ID: 24051140-002CMSD	SampType: MSD	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 185756						
Client ID: BatchQC	Batch ID: R185756	TestNo: E524.2	Analysis Date: 5/16/2024	SeqNo: 5033974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.58	0.500	5.000	0	112	70	130	5.247	6.12	25	
1,2,4-Trimethylbenzene	4.90	0.500	5.000	0	98.0	70	130	4.740	3.28	25	
Benzene	5.35	0.500	5.000	0	107	70	130	5.094	4.92	25	
Ethylbenzene	4.86	0.500	5.000	0	97.2	70	130	4.618	5.15	25	
m,p-Xylene	10.4	0.500	10.00	0	104	70	130	9.782	6.20	25	
Naphthalene	4.89	0.500	5.000	0	97.9	70	130	4.358	11.6	25	
o-Xylene	5.25	0.500	5.000	0	105	70	130	4.788	9.26	25	
Toluene	4.88	0.500	5.000	0	97.5	70	130	4.733	2.96	25	
Vinyl chloride	5.38	0.500	5.000	0	108	70	130	5.128	4.89	25	
Surr: 1,2-Dichlorobenzene-d4	10.3		10.00		103	70	130		0	25	
Surr: 4-Bromofluorobenzene	10.5		10.00		105	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.



Summit Environmental Technologies, Inc.
3310 Win St.
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Website: <http://www.settek.com>

DATES REPORT

WO#: **24051075**
29-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
24051075-001A	PW-435	5/13/2024 3:20:00 PM	Drinking Water	Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/27/2024 11:51:00 PM
24051075-001B				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 1:09:00 AM
24051075-001C				VOC-GC/MS (524.2)			5/15/2024 8:54:00 PM
24051075-001D				VOC by GC/MS (8260D)			5/15/2024 2:45:00 PM
24051075-002A	DUP	5/13/2024		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 12:24:00 AM
24051075-002B				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 1:41:00 AM
24051075-002C				VOC-GC/MS (524.2)			5/15/2024 9:26:00 PM
24051075-002D				VOC by GC/MS (8260D)			5/15/2024 3:09:00 PM
24051075-003A	PW-575FB	5/13/2024 9:25:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 12:57:00 AM
24051075-003B				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 2:12:00 AM
24051075-003C				VOC-GC/MS (524.2)			5/15/2024 9:57:00 PM
24051075-003D				VOC by GC/MS (8260D)			5/15/2024 3:33:00 PM
24051075-004A	PW-575	5/13/2024 9:45:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/29/2024 6:30:00 AM
24051075-004B				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 1:30:00 AM
24051075-004C				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 2:44:00 AM
24051075-004D				VOC-GC/MS (524.2)			5/15/2024 10:29:00 PM
24051075-004E				VOC by GC/MS (8260D)			5/15/2024 3:57:00 PM
24051075-005A	PW-327	5/13/2024 10:25:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 12:02:00 PM
24051075-005B				Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 2:03:00 AM
24051075-005C				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 3:16:00 AM

Original



DATES REPORT

WO#: **24051075**
29-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
24051075-005C	PW-327	5/13/2024 10:25:00 AM	Drinking Water	VOC-GC/MS (524.2)			5/16/2024 2:07:00 PM
24051075-005D				VOC by GC/MS (8260D)			5/15/2024 4:21:00 PM
24051075-006A	PW-328	5/13/2024 11:20:00 AM		Synthetic Organic Compounds by GC/ (EPA 525.3)		5/21/2024 3:10:00 PM	5/28/2024 2:37:00 AM
24051075-006B				SVOC by 8270E		5/16/2024 10:15:00 AM	5/18/2024 3:47:00 AM
24051075-006C				VOC-GC/MS (524.2)			5/16/2024 2:39:00 PM
24051075-006D				VOC by GC/MS (8260D)			5/15/2024 4:45:00 PM
24051075-007A	Trip Blank 1			VOC-GC/MS (524.2)			5/15/2024 7:51:00 PM
24051075-007B				VOC by GC/MS (8260D)			5/15/2024 5:08:00 PM
24051075-008A	Trip Blank 2			VOC-GC/MS (524.2)			5/15/2024 8:23:00 PM
24051075-008B				VOC by GC/MS (8260D)			5/15/2024 5:32:00 PM
24051075-009A	Trip Blank 3			VOC-GC/MS (524.2)			5/16/2024 1:36:00 PM
24051075-009B				VOC by GC/MS (8260D)			5/15/2024 5:56:00 PM

Original



Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET WO NO: **24051075**
For Summit Environmental Technologies, Inc. use only
Analytical Parameters and Methods Requested

Client Name: **CCHD** Project Identification: **EP**

Client Phone: **330-424-0272** Report To: **CCHD**

Contact Person: **Kevin Summerville** PO #: **CCHD** Quote Number:

Client Email Address: **ksummerville@columbiana-health.org** PWS ID: Facility ID:

Sampled By (Print Name and Provide Signature): **Steve Wiesen** Reporting/Accreditation Requirements:

Print: **Steve Wiesen** Sign: **Steve Wiesen**
 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, NFW = 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)
	PW435	outside spigot	5/13/24	3:20 PM	✓		DW	8	10	3	3	2	2	

Relinquished by: **Kevin Summerville** Date: **5/14/24** Time: **8:20**
 Received by: **Steve Wiesen** Date: **5/14** Time: **8:20**

Notes / Comments:
524 - HCl, 8260 - HCl, 525.2 - unknown
Incorrect container count 8260 + 8270
CS intact - 5/13/24 - Steve Wiesen
 Sufficient volume provided to run QC? YES NO Cooler? YES NO

Received at Summit by: **Anthony B. ...** Date: **MAY 14 2024** Time: **12:55** Carrier: **SET**
 Rush Requested: _____ Day(s) Must be approved by Lab Manager

Received Temp.: **3.0 °C** Other Container:
 Ice Present? YES NO MELTED

3.2 - 0.2



Analysis Request / Chain of Custody

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

Client Name CCHD		Project Identification EP		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																																								
Client Phone 330-424-0272		Report To CCHD				Number of Containers per Sample <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="text-align: center;">524</td> <td style="text-align: center;">8270</td> <td style="text-align: center;">525.2</td> <td style="text-align: center;">8260</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																														524	8270	525.2	8260							
524	8270	525.2	8260																																											
Contact Person Kevin Summerville		PO #		Quote Number		For DW Only: Special Compliance or Routine (S/R)																																								
Client Email Address ksommerville@columbiana-health.org		PWS ID		Facility ID																																										
Sampled By (Print Name and Provide Signature) Print: Steve Wieser Sign: <i>Steve Wieser</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																																					
	DUP	DUP	5/13/24		✓		DW	8	10	3	3	2	2																																	
Relinquished by:		Date	Time	Received by:	Date	Time	Notes / Comments:																																							
<i>Anthony B...</i>		5/14/24	820	<i>[Signature]</i>	5/14	8:20	524-HCl, 8260-HCl, 525.2-unknown Incorrect container count 8260 & 8270 CS intact - 5/13/24 - Steve Wieser																																							
Received at Summit by:		Date	Time	Carrier	Rush Requested:	Day(s)	Received Temp.:		Other Container:																																					
<i>Anthony B...</i>		MAY 14 2024	12 55	SET	<input type="checkbox"/>		4.9 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED																																					

4.6-0.2



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				Analytical Parameters and Methods Requested															
Client Phone 330-424-0272		Report ID CC HD																			
Contact Person Kevin Summerville		PO #	Quote Number																		
Client Email Address ksummerville@columbiana-health.org		PWS ID	Facility ID																		
Sampled By (Print Name and Provide Signature) Steve Wieser		Reporting/Accreditation Requirements:																			
Print: Steve Wieser		<input type="checkbox"/> Ohio VAP		<input type="checkbox"/> Ohio EPA Pb, Cu																	
Sign: <i>Steve Wieser</i>		<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)
	PW575	Field Bskn	5/13/24	9:25am	✓		DW	8	10	3	3	2	2								
	PW575	outside spigot	5/13/24	9:45am	✓		DW	8	10	3	3	2	2								
Relinquished by:		Date	Time	Received by:		Date	Time	Notes/Comments:													
<i>Kevin Summerville</i>		5/14/24	820	<i>Steve Wieser</i>		5/14	8:20	524-HCl, 8260-HCl, 525.2-unknown Incorrect container count 8260+8270 CS intact - 5/13/24 - Steve Wieser													
								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		Rush Requested:	Day(s)	Received Temp.:		Other Container:											
<i>Anthony Bette</i>		MAY 14 2024	12 55	SET		Must be approved by Lab Manager		2.6 °C		Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED											
								2.8 - 0.2													



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: CCHD	Project Identification: EP	
--------------------------	-----------------------------------	--

Client Phone: 330-424-0272	Report ID: CCHD
Contact Person: Kevin Summerville	PO #: CCHD
Client Email Address: ksummerville@columbiana-health.org	Quote Number:
Print: Steve Wiesen	PWS ID:
Sign: [Signature]	Facility ID:
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: 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)
										524	0228	525.2	8260	
	DW327	outside spigot	5/13/24	10:25am	✓		DW	8	10	3	3	2	2	

Relinquished by: [Signature]	Date: 5/14/24	Time: 8:20	Received by: [Signature]	Date: 5/14	Time: 8:20	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown Incorrect container count 8260 + 8270 CS intact 05/13/24 Steve Wiesen
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: MAY 14 2024	Time: 12:55	Carrier: SET	Rush Requested: <input type="checkbox"/> YES <input type="checkbox"/> NO	Day(s):	Received Temp.: 3.0 °C	Other Container: Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED
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3.2 - 0.2



Analysis Request / Chain of Custody

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

Client Name: CCHD		Project Identification: FP				Analytical Parameters and Methods Requested										
[Redacted]		[Redacted]														
Client # / Phone: 330-424-0272		PO #: CCHD														
Contact Person: Kevin Summerville		Quote Number:														
Client Email Address: ksummerville@columbiana-health.org		PWS ID:		Facility ID:												
Sampled By (Print Name and Provide Signature): Steve Wiesen		Reporting/Accreditation Requirements:														
Print: Steve Wiesen		<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			For DW Only: Special Compliance or Routine (S/R)
	PW328	spigot in basement	5/13/24	11:20 am	✓		DW	8	10	3	3	2	2			
Relinquished by: [Signature]		Date: 5/14/24	Time: 8:20	Received by: [Signature]		Date: 5/14	Time: 8:20	Notes / Comments: 524-HCl, 8260-HCl, 525.2-unknown Incorrect container count 8260 + 8270 CS intact = 5/13/24 = Steve Wiesen								
Received at Summit by: [Signature]		Date: MAY 14 2024	Time: 12:55	Carrier: SET		Rush Requested: _____ Day(s) Must be approved by Lab Manager		Received Temp.: 4.4 °C		Other Container: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED						

4.6-0.2



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: 24051075 RcptNo: 1

Logged by:	Anthony W. Britton	5/14/2024 12:55:00 PM	<i>Anthony Britton</i>
Completed By:	Anthony W. Britton	5/14/2024 3:22:19 PM	<i>Anthony Britton</i>
Reviewed By:	Holly Florea	5/15/2024 8:11:11 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: 5/13/2024 Signed By: Steve Wiesen
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:
 Container counts on 8270 and 8260 incorrect on COC.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes	N/A	5/13/2024	Steve Wiesen
2	3.0	Good	Yes	N/A	5/13/2024	Steve Wiesen



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: 24051075

RcptNo: 1

3	4.4	Good	Yes	N/A	5/13/2024	Steve Wiesen
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