



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

September 15, 2023

Kevin Summerville  
Mahoning County District Board of Health  
116 Westchester Drive  
Suite C  
Austintown, OH 44515  
TEL: (330) 270-2841  
FAX:

RE: EP

Dear Kevin Summerville:

Order No.: 23090455

Summit Environmental Technologies, Inc. received 5 sample(s) on 9/8/2023 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#: **23090455**  
**15-Sep-23**

**CLIENT:** Mahoning County District Board of Health  
**Project:** EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23090455-001	PW-112		9/6/2023 9:24:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-001	PW-112		9/6/2023 9:24:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-001	PW-112		9/6/2023 9:24:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-002	PW-112 FB		9/6/2023 9:52:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-002	PW-112 FB		9/6/2023 9:52:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-002	PW-112 FB		9/6/2023 9:52:00 AM	9/8/2023 3:14:00 PM	Drinking Water
23090455-003	Dup		9/6/2023	9/8/2023 3:14:00 PM	Drinking Water
23090455-003	Dup		9/6/2023	9/8/2023 3:14:00 PM	Drinking Water
23090455-003	Dup		9/6/2023	9/8/2023 3:14:00 PM	Drinking Water
23090455-004	Trip Blank 1			9/8/2023 3:14:00 PM	Drinking Water
23090455-004	Trip Blank 1			9/8/2023 3:14:00 PM	Drinking Water
23090455-005	Trip Blank 2			9/8/2023 3:14:00 PM	Drinking Water
23090455-005	Trip Blank 2			9/8/2023 3:14:00 PM	Drinking Water



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## Case Narrative

WO#: 23090455  
Date: 9/15/2023

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**CLIENT:** Mahoning County District Board of Health  
**Project:** EP

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### 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:

23090455: 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:

23090455-001 through 003 SVOC-MSTR\_NPW(8270E): CCV exhibited high recoveries for several analytes, indicating possible high bias, Sample is ND for these analytes.

23090455-001 and 002 SVOC\_DW(525.3): Low recovery of 1,3-Dimethyl-2-nitrobenzene surrogate was confirmed by reanalysis. Potential low bias for associated analytes.

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Original



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# Analytical Report

(consolidated)

WO#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health **Collection Date:** 9/6/2023 9:24:00 AM  
**Project:** EP  
**Lab ID:** 23090455-001 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-112

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>SAM</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Anthracene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Chrysene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Fluorene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	9/14/2023 12:32:00 AM
Phenanthrene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Pyrene	ND	0.0980		µg/L	1	9/14/2023 12:32:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	61.4	70 - 130	S	%Rec	1	9/14/2023 12:32:00 AM
Surr: Benzo(a)pyrene-d12	70.8	70 - 130		%Rec	1	9/14/2023 12:32:00 AM
Surr: Triphenyl phosphite	72.4	70 - 130		%Rec	1	9/14/2023 12:32:00 AM

<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.971	QC+	µg/L	1	9/13/2023 7:53:00 PM
2-Butoxyethanol	ND	29.1	QC+	µg/L	1	9/13/2023 7:53:00 PM
2-Methylnaphthalene	ND	0.971	QC+	µg/L	1	9/13/2023 7:53:00 PM
Acenaphthene	ND	0.971	QC+	µg/L	1	9/13/2023 7:53:00 PM
Fluoranthene	ND	0.971		µg/L	1	9/13/2023 7:53:00 PM
Surr: Nitrobenzene-d5	84.6	10 - 130		%Rec	1	9/13/2023 7:53:00 PM
Surr: 2-Fluorobiphenyl	83.3	10 - 130		%Rec	1	9/13/2023 7:53:00 PM
Surr: p-Terphenyl-d14	108	20 - 181		%Rec	1	9/13/2023 7:53:00 PM

<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>	Analyst: <b>ALS</b>	
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Benzene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Ethylbenzene	ND	0.500		µg/L	1	9/12/2023 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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 9/6/2023 9:24:00 AM  
**Project:** EP  
**Lab ID:** 23090455-001      **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-112

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Naphthalene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
o-Xylene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Toluene	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Vinyl chloride	ND	0.500		µg/L	1	9/12/2023 3:09:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.3	70 - 130		%Rec	1	9/12/2023 3:09:00 PM
Surr: 4-Bromofluorobenzene	95.1	70 - 130		%Rec	1	9/12/2023 3:09:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ALS
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:07:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:07:00 PM
Surr: 4-Bromofluorobenzene	94.6	70 - 130		%Rec	1	9/9/2023 7:07:00 PM
Surr: Dibromofluoromethane	95.5	70 - 130		%Rec	1	9/9/2023 7:07:00 PM
Surr: Toluene-d8	95.9	70 - 130		%Rec	1	9/9/2023 7:07:00 PM

<b>Qualifiers:</b>	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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health **Collection Date:** 9/6/2023 9:52:00 AM  
**Project:** EP  
**Lab ID:** 23090455-002 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-112 FB

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>SAM</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Anthracene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Chrysene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Fluorene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	9/14/2023 1:05:00 AM
Phenanthrene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Pyrene	ND	0.0980		µg/L	1	9/14/2023 1:05:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	61.6	70 - 130	S	%Rec	1	9/14/2023 1:05:00 AM
Surr: Benzo(a)pyrene-d12	70.2	70 - 130		%Rec	1	9/14/2023 1:05:00 AM
Surr: Triphenyl phosphite	76.6	70 - 130		%Rec	1	9/14/2023 1:05:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	1.00	QC+	µg/L	1	9/13/2023 8:24:00 PM
2-Butoxyethanol	ND	30.0	QC+	µg/L	1	9/13/2023 8:24:00 PM
2-Methylnaphthalene	ND	1.00	QC+	µg/L	1	9/13/2023 8:24:00 PM
Acenaphthene	ND	1.00	QC+	µg/L	1	9/13/2023 8:24:00 PM
Fluoranthene	ND	1.00		µg/L	1	9/13/2023 8:24:00 PM
Surr: Nitrobenzene-d5	83.5	10 - 130		%Rec	1	9/13/2023 8:24:00 PM
Surr: 2-Fluorobiphenyl	89.4	10 - 130		%Rec	1	9/13/2023 8:24:00 PM
Surr: p-Terphenyl-d14	112	20 - 181		%Rec	1	9/13/2023 8:24:00 PM
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Benzene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Ethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM

<b>Qualifiers:</b>	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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 9/6/2023 9:52:00 AM  
**Project:** EP  
**Lab ID:** 23090455-002      **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-112 FB

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Naphthalene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
o-Xylene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Toluene	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Vinyl chloride	ND	0.500		µg/L	1	9/12/2023 4:03:00 PM
Surr: 1,2-Dichlorobenzene-d4	85.8	70 - 130		%Rec	1	9/12/2023 4:03:00 PM
Surr: 4-Bromofluorobenzene	99.7	70 - 130		%Rec	1	9/12/2023 4:03:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ALS
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:33:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	94.0	70 - 130		%Rec	1	9/9/2023 7:33:00 PM
Surr: Dibromofluoromethane	99.1	70 - 130		%Rec	1	9/9/2023 7:33:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	9/9/2023 7:33:00 PM

<b>Qualifiers:</b>	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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health **Collection Date:** 9/6/2023  
**Project:** EP  
**Lab ID:** 23090455-003 **Matrix:** DRINKING WATER  
**Client Sample ID:** Dup

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: <b>SAM</b>
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
Acenaphthylene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Anthracene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Benz(a)anthracene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Benzo(a)pyrene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Chrysene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Fluorene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	9/14/2023 2:44:00 AM
Phenanthrene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Pyrene	ND	0.0980		µg/L	1	9/14/2023 2:44:00 AM
Surr: 1,3-Dimethyl-2-nitrobenzene	75.2	70 - 130		%Rec	1	9/14/2023 2:44:00 AM
Surr: Benzo(a)pyrene-d12	84.4	70 - 130		%Rec	1	9/14/2023 2:44:00 AM
Surr: Triphenyl phosphite	88.6	70 - 130		%Rec	1	9/14/2023 2:44:00 AM
<b>SVOC BY SW8270E</b>				<b>SW8270</b>	<b>SW3510C</b>	Analyst: <b>SAM</b>
<b>SVOC BY 8270E</b>						
1-Methylnaphthalene	ND	0.980	QC+	µg/L	1	9/13/2023 8:56:00 PM
2-Butoxyethanol	ND	29.4	QC+	µg/L	1	9/13/2023 8:56:00 PM
2-Methylnaphthalene	ND	0.980	QC+	µg/L	1	9/13/2023 8:56:00 PM
Acenaphthene	ND	0.980	QC+	µg/L	1	9/13/2023 8:56:00 PM
Fluoranthene	ND	0.980		µg/L	1	9/13/2023 8:56:00 PM
Surr: Nitrobenzene-d5	78.0	10 - 130		%Rec	1	9/13/2023 8:56:00 PM
Surr: 2-Fluorobiphenyl	74.3	10 - 130		%Rec	1	9/13/2023 8:56:00 PM
Surr: p-Terphenyl-d14	94.3	20 - 181		%Rec	1	9/13/2023 8:56:00 PM
<b>DRINKING WATER VOCs (EPA 524.2)</b>				<b>E524.2</b>		Analyst: <b>ALS</b>
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Benzene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Ethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM

<b>Qualifiers:</b>	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
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# Analytical Report

(consolidated)

WO#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 9/6/2023  
**Project:** EP  
**Lab ID:** 23090455-003      **Matrix:** DRINKING WATER  
**Client Sample ID:** Dup

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
m,p-Xylene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Naphthalene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
o-Xylene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Toluene	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Vinyl chloride	ND	0.500		µg/L	1	9/12/2023 4:30:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.5	70 - 130		%Rec	1	9/12/2023 4:30:00 PM
Surr: 4-Bromofluorobenzene	97.5	70 - 130		%Rec	1	9/12/2023 4:30:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ALS
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:59:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	9/9/2023 7:59:00 PM
Surr: 4-Bromofluorobenzene	94.8	70 - 130		%Rec	1	9/9/2023 7:59:00 PM
Surr: Dibromofluoromethane	98.8	70 - 130		%Rec	1	9/9/2023 7:59:00 PM
Surr: Toluene-d8	99.6	70 - 130		%Rec	1	9/9/2023 7:59:00 PM

<b>Qualifiers:</b>	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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:**  
**Project:** EP  
**Lab ID:** 23090455-004      **Matrix:** DRINKING WATER  
**Client Sample ID:** Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Benzene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Ethylbenzene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
m,p-Xylene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Naphthalene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
o-Xylene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Toluene	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Vinyl chloride	ND	0.500		µg/L	1	9/12/2023 4:57:00 PM
Surr: 1,2-Dichlorobenzene-d4	84.3	70 - 130		%Rec	1	9/12/2023 4:57:00 PM
Surr: 4-Bromofluorobenzene	95.5	70 - 130		%Rec	1	9/12/2023 4:57:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ALS
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	9/9/2023 8:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	9/9/2023 8:25:00 PM
Surr: 4-Bromofluorobenzene	96.5	70 - 130		%Rec	1	9/9/2023 8:25:00 PM
Surr: Dibromofluoromethane	101	70 - 130		%Rec	1	9/9/2023 8:25:00 PM
Surr: Toluene-d8	100	70 - 130		%Rec	1	9/9/2023 8:25:00 PM

<b>Qualifiers:</b>	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#: 23090455

Date Reported: 9/15/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:**  
**Project:** EP  
**Lab ID:** 23090455-005      **Matrix:** DRINKING WATER  
**Client Sample ID:** Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ALS
<b>VOC-GC/MS (524.2)</b>						
1,1-Dichloropropene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Benzene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Ethylbenzene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
m,p-Xylene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Naphthalene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
o-Xylene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Toluene	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Vinyl chloride	ND	0.500		µg/L	1	9/12/2023 5:24:00 PM
Surr: 1,2-Dichlorobenzene-d4	86.6	70 - 130		%Rec	1	9/12/2023 5:24:00 PM
Surr: 4-Bromofluorobenzene	96.7	70 - 130		%Rec	1	9/12/2023 5:24:00 PM
<b>VOC ANALYSIS (8260D)</b>				<b>SW8260</b>		Analyst: ALS
<b>VOC BY GC/MS (8260D)</b>						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	9/9/2023 8:51:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	9/9/2023 8:51:00 PM
Surr: 4-Bromofluorobenzene	95.5	70 - 130		%Rec	1	9/9/2023 8:51:00 PM
Surr: Dibromofluoromethane	98.9	70 - 130		%Rec	1	9/9/2023 8:51:00 PM
Surr: Toluene-d8	98.3	70 - 130		%Rec	1	9/9/2023 8:51:00 PM

<b>Qualifiers:</b>	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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68561

Sample ID: <b>MB-68561</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170698</b>						
Client ID: <b>PBW</b>	Batch ID: <b>68561</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4590427</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						QC+
1-Methylnaphthalene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0229		0.05000		45.8	10	130				
Surr: Phenol-d6	0.0153		0.05000		30.6	10	130				
Surr: Nitrobenzene-d5	0.0351		0.05000		70.2	10	130				
Surr: 2,4,6-Tribromophenol	0.0306		0.05000		61.1	19	151				
Surr: 2-Fluorobiphenyl	0.0367		0.05000		73.4	10	130				
Surr: p-Terphenyl-d14	0.0395		0.05000		79.1	20	181				

Sample ID: <b>LCS-68561</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170698</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>68561</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4590429</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0	70	130				QC+
1-Methylnaphthalene	33.4	5.00	40.0	0	83.4	33	130				
2-Methylnaphthalene	33.9	5.00	40.0	0	84.7	32	130				
Acenaphthene	36.1	5.00	40.0	0	90.2	44	130				
Fluoranthene	35.1	5.00	40.0	0	87.8	63	130				
Surr: 2-Fluorophenol	0.0271		0.05000		54.2	10	130				
Surr: Phenol-d6	0.0202		0.05000		40.5	10	130				
Surr: Nitrobenzene-d5	0.0361		0.05000		72.2	10	130				
Surr: 2,4,6-Tribromophenol	0.0346		0.05000		69.2	19	151				

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68561

Sample ID: <b>LCS-68561</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170698</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>68561</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4590429</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0381		0.05000		76.2	10	130				
Surr: p-Terphenyl-d14	0.0324		0.05000		64.9	20	181				

Sample ID: <b>LCSD-68561</b>	SampType: <b>LCSD</b>	TestCode: <b>SVOC-MSTR</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170698</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>68561</b>	TestNo: <b>SW8270</b>	<b>SW3510C</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4590430</b>						
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	QC+
1-Methylnaphthalene	32.2	5.00	40.0	0	80.5	33	130	33.4	3.63	30	
2-Methylnaphthalene	33.9	5.00	40.0	0	84.7	32	130	33.9	0.0295	30	
Acenaphthene	35.8	5.00	40.0	0	89.5	44	130	36.1	0.807	30	
Fluoranthene	34.2	5.00	40.0	0	85.6	63	130	35.1	2.54	30	
Surr: 2-Fluorophenol	0.0250		0.05000		49.9	10	130		0		
Surr: Phenol-d6	0.0185		0.05000		37.0	10	130		0		
Surr: Nitrobenzene-d5	0.0379		0.05000		75.7	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0333		0.05000		66.5	19	151		0		
Surr: 2-Fluorobiphenyl	0.0403		0.05000		80.5	10	130		0		
Surr: p-Terphenyl-d14	0.0336		0.05000		67.1	20	181		0		

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68564

Sample ID: <b>MB-68564</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>							
Client ID: <b>PBW</b>	Batch ID: <b>68564</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594766</b>							
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...	3.93		5.000		78.6	70	130				
Surr: Benzo(a)pyrene-d12	3.45		5.000		69.0	70	130				S
Surr: Triphenyl phosphate	4.30		5.000		86.0	70	130				

Sample ID: <b>LCS-68564</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>68564</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594767</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.11	0.100	5.000	0	82.2	70	130				
Anthracene	4.70	0.100	5.000	0	94.0	70	130				
Benz(a)anthracene	4.36	0.100	5.000	0	87.2	70	130				
Benzo(a)pyrene	3.57	0.100	5.000	0	71.4	70	130				

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68564

Sample ID: <b>LCS-68564</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>68564</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594767</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	3.52	0.100	5.000	0	70.4	70	130				
Benzo(g,h,i)perylene	4.15	0.100	5.000	0	83.0	70	130				
Benzo(k)fluoranthene	4.01	0.100	5.000	0	80.2	70	130				
Chrysene	4.06	0.100	5.000	0	81.2	70	130				
Dibenz(a,h)anthracene	3.57	0.100	5.000	0	71.4	70	130				
Fluorene	4.43	0.100	5.000	0	88.6	70	130				
Indeno(1,2,3-cd)pyrene	3.57	1.00	5.000	0	71.4	70	130				
Phenanthrene	4.54	0.100	5.000	0	90.8	70	130				
Pyrene	4.13	0.100	5.000	0	82.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobenzene	4.27		5.000		85.4	70	130				
Surr: Benzo(a)pyrene-d12	3.91		5.000		78.2	70	130				
Surr: Triphenyl phosphate	4.43		5.000		88.6	70	130				

Sample ID: <b>23090454-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC_DW(52</b> Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>68564</b>	TestNo: <b>E525 525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594770</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.85	0.100	5.000	0	77.0	70	130				
Anthracene	4.61	0.100	5.000	0	92.2	70	130				
Benz(a)anthracene	4.56	0.100	5.000	0	91.2	70	130				
Benzo(a)pyrene	3.89	0.100	5.000	0	77.8	70	130				
Benzo(b)fluoranthene	4.05	0.100	5.000	0	81.0	70	130				
Benzo(g,h,i)perylene	4.52	0.100	5.000	0	90.4	70	130				
Benzo(k)fluoranthene	3.93	0.100	5.000	0	78.6	70	130				
Chrysene	4.03	0.100	5.000	0	80.6	70	130				

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68564

Sample ID: <b>23090454-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>68564</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594770</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	3.96	0.100	5.000	0	79.2	70	130				
Fluorene	4.02	0.100	5.000	0	80.4	70	130				
Indeno(1,2,3-cd)pyrene	3.98	1.00	5.000	0	79.6	70	130				
Phenanthrene	4.49	0.100	5.000	0	89.8	70	130				
Pyrene	4.18	0.100	5.000	0	83.6	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	4.30		5.000		86.0	70	130				
Surr: Benzo(a)pyrene-d12	4.59		5.000		91.8	70	130				
Surr: Triphenyl phosphate	4.66		5.000		93.2	70	130				

Sample ID: <b>23090454-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>68564</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594771</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	3.76	0.0980	4.902	0	76.8	70	130	3.850	2.24	30	
Anthracene	4.41	0.0980	4.902	0	90.0	70	130	4.610	4.39	30	
Benz(a)anthracene	4.47	0.0980	4.902	0	91.2	70	130	4.560	1.98	30	
Benzo(a)pyrene	3.83	0.0980	4.902	0	78.2	70	130	3.890	1.47	30	
Benzo(b)fluoranthene	3.90	0.0980	4.902	0	79.6	70	130	4.050	3.72	30	
Benzo(g,h,i)perylene	4.50	0.0980	4.902	0	91.8	70	130	4.520	0.443	30	
Benzo(k)fluoranthene	3.99	0.0980	4.902	0	81.4	70	130	3.930	1.52	30	
Chrysene	3.99	0.0980	4.902	0	81.4	70	130	4.030	0.993	30	
Dibenz(a,h)anthracene	3.90	0.0980	4.902	0	79.6	70	130	3.960	1.48	30	
Fluorene	3.93	0.0980	4.902	0	80.2	70	130	4.020	2.23	30	
Indeno(1,2,3-cd)pyrene	3.91	0.980	4.902	0	79.8	70	130	3.980	1.73	30	
Phenanthrene	4.25	0.0980	4.902	0	86.8	70	130	4.490	5.38	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				

Original





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Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: **23090455**  
**15-Sep-23**

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** 68564

Sample ID: <b>23090454-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>SVOC_DW(52</b>	Units: <b>µg/L</b>	Prep Date: <b>9/11/2023</b>	RunNo: <b>170885</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>68564</b>	TestNo: <b>E525</b>	<b>525</b>	Analysis Date: <b>9/13/2023</b>	SeqNo: <b>4594771</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	4.07	0.0980	4.902	0	83.0	70	130	4.180	2.70	30	
Surr: 1,3-Dimethyl-2-nitrobenzene	3.67		4.902		74.8	70	130		0	0	
Surr: Benzo(a)pyrene-d12	4.26		4.902		87.0	70	130		0	0	
Surr: Triphenyl phosphate	4.28		4.902		87.4	70	130		0	0	

**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 |    |                                |    |  |

Original



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# QC SUMMARY REPORT

WO#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** R170608

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170608</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R170608</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>9/9/2023</b>	SeqNo: <b>4588247</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	24.4	5.00	20.00	0	122	70	130				
n-Butyl acrylate	20.2	5.00	20.00	0	101	70	130				
Surr: 4-Bromofluorobenzene	52.7		50.00		105	70	130				
Surr: Dibromofluoromethane	44.0		50.00		88.0	70	130				
Surr: Toluene-d8	50.8		50.00		102	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170608</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R170608</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>9/9/2023</b>	SeqNo: <b>4588249</b>							
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	49.9		50.00		99.9	70	130				
Surr: Dibromofluoromethane	47.8		50.00		95.7	70	130				
Surr: Toluene-d8	50.3		50.00		101	70	130				

Sample ID: <b>23090454-004BMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170608</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R170608</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>9/9/2023</b>	SeqNo: <b>4588254</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	20.0	5.00	20.00	0	100	70	130				
n-Butyl acrylate	20.5	5.00	20.00	0	103	70	130				
Surr: 4-Bromofluorobenzene	53.0		50.00		106	70	130				

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** R170608

Sample ID: <b>23090454-004BMS</b>	SampType: <b>MS</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170608</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R170608</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>9/9/2023</b>	SeqNo: <b>4588254</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	48.5		50.00		97.0	70	130				
Surr: Toluene-d8	50.8		50.00		102	46.1	154				

Sample ID: <b>23090454-004BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>VOC-MSTR_</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170608</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R170608</b>	TestNo: <b>SW8260</b>	Analysis Date: <b>9/9/2023</b>	SeqNo: <b>4588255</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	21.2	5.00	20.00	0	106	70	130	20.00	5.82	20	
n-Butyl acrylate	21.1	5.00	20.00	0	106	70	130	20.53	2.80	20	
Surr: 4-Bromofluorobenzene	52.5		50.00		105	70	130		0	20	
Surr: Dibromofluoromethane	48.6		50.00		97.2	70	130		0	20	
Surr: Toluene-d8	51.4		50.00		103	46.1	154		0	20	

**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#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** R170762

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170762</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R170762</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4591847</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.76	0.500	5.000	0	95.2	70	130				
1,2,4-Trimethylbenzene	6.06	0.500	5.000	0	121	70	130				
Benzene	5.12	0.500	5.000	0	102	70	130				
Ethylbenzene	4.95	0.500	5.000	0	99.1	70	130				
m,p-Xylene	10.6	0.500	10.00	0	106	70	130				
Naphthalene	4.48	0.500	5.000	0	89.6	70	130				
o-Xylene	5.27	0.500	5.000	0	105	70	130				
Toluene	5.05	0.500	5.000	0	101	70	130				
Vinyl chloride	4.60	0.500	5.000	0	92.1	70	130				
Surr: 1,2-Dichlorobenzene-d4	9.60		10.00		96.0	70	130				
Surr: 4-Bromofluorobenzene	10.3		10.00		103	70	130				

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170762</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R170762</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4591848</b>							
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	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				

Original



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# QC SUMMARY REPORT

WO#: 23090455  
 15-Sep-23

**Client:** Mahoning County District Board of Health  
**Project:** EP

**BatchID:** R170762

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170762</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R170762</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4591848</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	8.55		10.00		85.5	70	130				
Surr: 4-Bromofluorobenzene	9.81		10.00		98.1	70	130				

Sample ID: <b>23090455-001CDUP</b>	SampType: <b>DUP</b>	TestCode: <b>VOC_DW(524)</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>170762</b>						
Client ID: <b>PW-112</b>	Batch ID: <b>R170762</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>9/12/2023</b>	SeqNo: <b>4591851</b>						
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	8.46		10.00		84.6	70	130		0	20	
Surr: 4-Bromofluorobenzene	9.26		10.00		92.6	70	130		0	20	

**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				

Original

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

### Qualifiers

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

### Acronyms

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

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



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# DATES REPORT

WO#: **23090455**  
**15-Sep-23**

**Client:** Mahoning County District Board of Health  
**Project:** EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23090455-001A	PW-112	9/6/2023 9:24:00 AM	Drinking Water	SVOC by 8270E		9/11/2023 12:00:00 PM	9/13/2023 7:53:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		9/11/2023 9:00:00 AM	9/14/2023 12:32:00 AM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		9/11/2023 9:00:00 AM	9/14/2023 9:15:00 PM
23090455-001B				VOC by GC/MS (8260D)			9/9/2023 7:07:00 PM
23090455-001C				VOC-GC/MS (524.2)			9/12/2023 3:09:00 PM
23090455-002A	PW-112 FB	9/6/2023 9:52:00 AM		SVOC by 8270E		9/11/2023 12:00:00 PM	9/13/2023 8:24:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		9/11/2023 9:00:00 AM	9/14/2023 9:48:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		9/11/2023 9:00:00 AM	9/14/2023 1:05:00 AM
23090455-002B				VOC by GC/MS (8260D)			9/9/2023 7:33:00 PM
23090455-002C				VOC-GC/MS (524.2)			9/12/2023 4:03:00 PM
23090455-003A	Dup	9/6/2023		SVOC by 8270E		9/11/2023 12:00:00 PM	9/13/2023 8:56:00 PM
				Synthetic Organic Compounds by GC/MS (EPA 525.3)		9/11/2023 9:00:00 AM	9/14/2023 2:44:00 AM
23090455-003B				VOC by GC/MS (8260D)			9/9/2023 7:59:00 PM
23090455-003C				VOC-GC/MS (524.2)			9/12/2023 4:30:00 PM
23090455-004A	Trip Blank 1			VOC by GC/MS (8260D)			9/9/2023 8:25:00 PM
23090455-004B				VOC-GC/MS (524.2)			9/12/2023 4:57:00 PM
23090455-005A	Trip Blank 2			VOC by GC/MS (8260D)			9/9/2023 8:51:00 PM
23090455-005B				VOC-GC/MS (524.2)			9/12/2023 5:24:00 PM

Original





Analyte List 3

Analysis Request / Chain of Custody



DC-QA-0008 Rev. 43

Refer to Terms and Conditions at www.sumit.com

Client/Project		Project ID	Quality ID	Requester Information		Requester	Requester Title	Requester Email	Requester Phone	Requester Fax	Requester Address	Requester City	Requester State	Requester Zip	Requester Country
Summit		8260-HCL	8260-HCL	8260-HCL		8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL	8260-HCL
Sample ID		Sample Description		Sample Matrix		Sample Volume		Sample Temperature		Sample Date		Sample Time		Sample Location	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Name		Requester Title		Requester Email		Requester Phone		Requester Fax		Requester Address		Requester City		Requester State	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Signature		Requester Date		Requester Time		Requester Location		Requester Initials		Requester Stamp		Requester Seal		Requester Signature	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester ID		Requester Title		Requester Email		Requester Phone		Requester Fax		Requester Address		Requester City		Requester State	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Signature		Requester Date		Requester Time		Requester Location		Requester Initials		Requester Stamp		Requester Seal		Requester Signature	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester ID		Requester Title		Requester Email		Requester Phone		Requester Fax		Requester Address		Requester City		Requester State	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Signature		Requester Date		Requester Time		Requester Location		Requester Initials		Requester Stamp		Requester Seal		Requester Signature	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester ID		Requester Title		Requester Email		Requester Phone		Requester Fax		Requester Address		Requester City		Requester State	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Signature		Requester Date		Requester Time		Requester Location		Requester Initials		Requester Stamp		Requester Seal		Requester Signature	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester ID		Requester Title		Requester Email		Requester Phone		Requester Fax		Requester Address		Requester City		Requester State	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	
Requester Signature		Requester Date		Requester Time		Requester Location		Requester Initials		Requester Stamp		Requester Seal		Requester Signature	
8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL		8260-HCL	



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 Website: <http://www.settek.com>

# Sample Log-In Check List

Client Name: **MAH-OH-44515** Work Order Number: **23090455** RcptNo: **1**

Logged by:	<b>Anthony W. Britton</b>	<b>9/8/2023 3:14:00 PM</b>	
Completed By:	<b>Anthony W. Britton</b>	<b>9/8/2023 4:56:15 PM</b>	
Reviewed By:	<b>Holly Florea</b>	<b>9/11/2023 11:16:49 AM</b>	

### 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. Seal Date: 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:  
 DUP is missing collection time.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			
2	2.7	Good	Yes			