



## Columbiana County Health District

P.O. Box 309 – 7360 State Route 45 – Lisbon, Ohio 44432  
Phone: 330-424-0272 – General Fax: 330-424-1733 – Nursing Fax: 330-424-1843  
Email: [cchd@columbiana-health.org](mailto:cchd@columbiana-health.org) Web: [www.columbiana-health.org](http://www.columbiana-health.org)



April 26<sup>th</sup>, 2023

Ray Wolf  
Failer St.  
East Palestine, OH 44413  
903-517-1692

### Subject: Potable Water Sampling Results

Dear Mr. Wolf:

On behalf of Columbiana County Health District, we are providing analytical results for the 2<sup>nd</sup> round of potable water samples collected on your property located at Failer St. East Palestine, OH 44413. The water samples were collected on 02/15/2023 as part of the response to the East Palestine Train Derailment. Your sample is designated as PW-311 in this program. The samples were collected in accordance with the developed Sampling Plan, which includes Standard Operating Procedures for sample collection.

The sample was sent to Summit Environmental Technologies, Inc. for analysis. The data obtained from the laboratory were reviewed for quality assurance purposes. A sample summary, the analytical report and a qualifiers/acronyms page is included with this letter. **The water sample results meet the drinking water standards for the chemicals that have been analyzed and were related to this event.**

You can find more information on your potable water sample and chemicals related to this event at the links below:

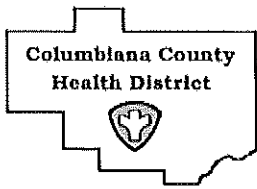
- Columbiana County Health District (<https://www.columbiana-health.org/>).
- Ohio Department of Health (<https://odh.ohio.gov/home>).
- Ohio Environmental Protection Agency (<https://epa.ohio.gov/home>)

If you have any questions about your sample results, please feel free to contact our office.

Sincerely,

Laura Fauss, MPH, REHS  
Environmental Program Manager





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### EVALUATION OF EXISTING HOME WATER SUPPLY

Property Address: Failer St. East Palestine, OH 44413

Township: Unity

Tax Parcel ID # unknown

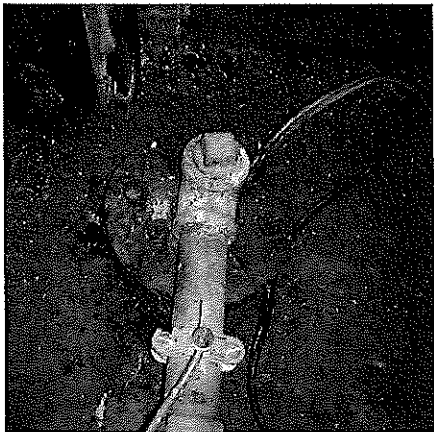
**Privately Water System:** Permit # None & Well log # None

Source consists of: A Drilled well with a steel casing located inside the foundation. The plumbing portion of the Private Water System consisted of a pressure tank.

#### Sample Collection Information:

- Sampling Port: 3-bay sink faucet
- Sample date: March 23<sup>rd</sup>, 2023
- Sampler: Kevin Summerville Witness: EPA Consultant

**Pictures taken during the sampling process have been included below:**



Sample Team Lead: Kevin Summerville

Date: 04/26/2023

Our Vision: "A safe community of healthy people"





**SUMMIT**  
ENVIRONMENTAL TECHNOLOGIES, INC  
Analytical Laboratories

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

April 07, 2023

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

RE: EP (Revised)

Dear Scott Bolam:

Order No.: 23031750

Summit Environmental Technologies, Inc. received 14 sample(s) on 3/24/2023 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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## Case Narrative

WO#: 23031750  
Date: 4/7/2023

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**CLIENT:** Mahoning County District Board of Health  
**Project:** EP (Revised)

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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.

### Analytical Sequence Sample Notes:

23031750-001E GLYCOL\_NPW(8015C): RPD between quantitation and confirmation columns is greater than 40%.

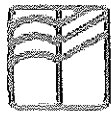
23031750-001 through 005 SVOC-MSTR\_NPW(8270E): CCV exhibited high recoveries for 4-Nitrophenol and Benzoic acid. Sample is ND for these analytes.

23031750-001 through 009 SVOC\_DW(525.3): Possible low bias for several analytes due to low recoveries in LCS/LCSD-63908, confirmed by reanalysis.

23031750-001B VOC-MSTR\_NPW(8260D): Corresponding MS/MSD exhibited high recoveries and

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## Case Narrative

WO#: 23031750  
Date: 4/7/2023

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**CLIENT:** Mahoning County District Board of Health  
**Project:** EP (Revised)

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high RPD for several analytes. LCS-R160889 demonstrates control for these analytes.

23031750-001 through 009 SVOC-MSTR\_NPW(8270E); The lab does not routinely spike for 2-Butoxyethanol or Benzoic acid; however these compounds are included in the instrument initial calibration and initial calibration verification.

23031750-001 through 014 VOC-MSTR\_NPW(8260D); Possible low bias for Cyclohexanone, trans-1,4-Dichloro-2-butene, and 1,2,3-Trimethylbenzene due to low recoveries in the CCV. Compounds demonstrate adequate instrument sensitivity in RLC.

23031750-010 through 014 VOC\_DW(524.2); ICV exhibited high recovery for Vinyl chloride. Sample is ND for this analyte.

Revised report provided .

-Compounds Acenaphthene, Di-n-Octyl phthalate, Fluoranthene, and Naphthalene were removed from EPA525.3 and added to SW8270E. Upon review it was determined these compounds were not included in our calibration and initial/continuing calibration verification. All compounds are included in SW8270's calibration, initial/continuing calibration verification, and batch QC.

-Compounds 1-Methylnaphthalene and 2-Methylnaphthalene added to the list of reportable compounds to SW8270. Analytes were missing in the original report.

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

**Qualifiers**

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

**Acronyms**

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

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





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# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

**CLIENT:** Mahoning County District Board of Health **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>GLYCOLS (8015)</b>				<b>SW8015C</b>		Analyst: JDB
Dipropylene glycol	ND	5000		µg/L	1	3/29/2023 2:21:00 AM
Diethylene glycol	ND	5000		µg/L	1	3/29/2023 2:21:00 AM
Propylene glycol	ND	5000		µg/L	1	3/29/2023 2:21:00 AM
<b>EPA504.-DW</b>				<b>E504.1</b>	<b>E504.1</b>	Analyst: PGP
<b>EDB, DBCP, 123TCP BY GC (EPA 504.1)</b>						
1,2-Dibromoethane	ND	0.0200		µg/L	1	3/29/2023 11:05:00 PM
Dibromochloropropane	ND	0.0400		µg/L	1	3/29/2023 11:05:00 PM
<b>DRINKING WATER ORGANIC COMPOUNDS (EPA 525)</b>				<b>E525</b>	<b>525</b>	Analyst: SAM
<b>SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)</b>						
2,4-Dinitrotoluene	ND	0.194		µg/L	1	3/30/2023 7:36:00 PM
2,6-Dinitrotoluene	ND	0.194		µg/L	1	3/30/2023 7:36:00 PM
Acenaphthylene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Anthracene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benz(a)anthracene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benzo(a)pyrene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benzo(b)fluoranthene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benzo(g,h,i)perylene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benzo(k)fluoranthene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Benzyl Butyl Phthalate	ND	0.194		µg/L	1	3/30/2023 7:36:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.194	QL-	µg/L	1	3/30/2023 7:36:00 PM
Chrysene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Dibenz(a,h)anthracene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Diethyl phthalate	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Dimethyl phthalate	ND	0.194		µg/L	1	3/30/2023 7:36:00 PM
Di-n-butyl phthalate	ND	0.194		µg/L	1	3/30/2023 7:36:00 PM
Fluorene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Hexachlorobenzene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Hexachlorocyclopentadiene	ND	0.0971	QL-	µg/L	1	3/30/2023 7:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.971	QL-	µg/L	1	3/30/2023 7:36:00 PM
Isophorone	ND	0.194	QL-	µg/L	1	3/30/2023 7:36:00 PM
Phenanthrene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM
Pyrene	ND	0.0971		µg/L	1	3/30/2023 7:36:00 PM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
	P	Second column confirmation exceeds	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		

Revision v1



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# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006      **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

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

Surr: 1,3-Dimethyl-2-nitrobenzene	73.8	70 - 130		%Rec	1	3/30/2023 7:36:00 PM
Surr: Benzo(a)pyrene-d12	79.0	70 - 130		%Rec	1	3/30/2023 7:36:00 PM
Surr: Triphenyl phosphate	99.2	70 - 130		%Rec	1	3/30/2023 7:36:00 PM

**SVOC BY SW8270E**      **SW8270**      **SW3510C**      Analyst: JAP  
**SVOC BY 8270E**

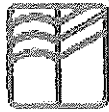
1-Methylnaphthalene	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
2-Butoxyethanol	ND	28.8		µg/L	1	3/30/2023 3:33:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
3,3'-Dichlorobenzidine	ND	9.62		µg/L	1	3/30/2023 3:33:00 PM
4-Nitrophenol	ND	4.81		µg/L	1	3/30/2023 3:33:00 PM
Acenaphthene	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
Benzoic acid	ND	15.4		µg/L	1	3/30/2023 3:33:00 PM
Di-n-octyl phthalate	ND	4.81		µg/L	1	3/30/2023 3:33:00 PM
Fluoranthene	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
Naphthalene	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
Phenol	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
3&4-Methylphenol	ND	0.962		µg/L	1	3/30/2023 3:33:00 PM
Surr: 2-Fluorophenol	42.6	10 - 130		%Rec	1	3/30/2023 3:33:00 PM
Surr: Phenol-d6	28.6	10 - 130		%Rec	1	3/30/2023 3:33:00 PM
Surr: Nitrobenzene-d5	62.1	10 - 130		%Rec	1	3/30/2023 3:33:00 PM
Surr: 2,4,6-Tribromophenol	81.0	19 - 151		%Rec	1	3/30/2023 3:33:00 PM
Surr: 2-Fluorobiphenyl	64.7	10 - 130		%Rec	1	3/30/2023 3:33:00 PM
Surr: p-Terphenyl-d14	86.2	20 - 181		%Rec	1	3/30/2023 3:33:00 PM

**DRINKING WATER VOCs (EPA 524.2)**      **E524.2**      Analyst: ZDA  
**VOC-GC/MS (524.2)**

1,1,1,2-Tetrachloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1,1-Trichloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1,2,2-Tetrachloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1,2-Trichloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1-Dichloroethylene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,1-Dichloropropene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual integration used to determine area response	ND	Not Detected
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

**CLIENT:** Mahoning County District Board of Health **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>					<b>E524.2</b>	<b>Analyst: ZDA</b>
<b>VOC-GC/MS (524.2)</b>						
1,2,3-Trichlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2,3-Trichloropropane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2,4-Trichlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2-Dichlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2-Dichloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,2-Dichloropropane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,3,5-Trimethylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,3-Dichlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,3-Dichloropropane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
1,3-Dichloropropene, Total	ND	1.00		µg/L	1	4/1/2023 7:35:00 AM
1,4-Dichlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
2,2-Dichloropropane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
2-Butanone	ND	5.00		µg/L	1	4/1/2023 7:35:00 AM
2-Chlorotoluene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
4-Chlorotoluene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
4-Methyl-2-pentanone	ND	5.00		µg/L	1	4/1/2023 7:35:00 AM
Acetone	ND	5.00		µg/L	1	4/1/2023 7:35:00 AM
Benzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Bromobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Bromodichloromethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Bromoform	ND	0.500		µg/L	1	4/4/2023 12:28:00 AM
Bromomethane	ND	1.00		µg/L	1	4/1/2023 7:35:00 AM
Carbon disulfide	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Carbon tetrachloride	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chlorobenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chlorobromomethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chlorodibromomethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chloroethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chloroform	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Chloromethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
cis-1,3-Dichloropropene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Dibromomethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual integration used to determine area response	ND	Not Detected
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	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

Revision v1



**SUMMIT**  
ENVIRONMENTAL TECHNOLOGIES, INC.  
Analytical Laboratories

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

# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

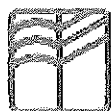
**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006      **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DRINKING WATER VOCS (EPA 524.2)</b>				<b>E524.2</b>		Analyst: ZDA
<b>VOC-GC/MS (524.2)</b>						
Dichlorodifluoromethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
ETBE	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Ethylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Hexachloro-1,3-butadiene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Isopropylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
m,p-Xylene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Methyl n-Butyl Ketone	ND	5.00		µg/L	1	4/1/2023 7:35:00 AM
Methylene chloride	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
MTBE	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Naphthalene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
n-Butylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
n-Propylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
o-Xylene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
p-Isopropyltoluene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
sec-Butylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Styrene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Tert-amyl methyl ether	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Tert-butyl Alcohol	ND	5.00		µg/L	1	4/1/2023 7:35:00 AM
tert-Butylbenzene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Tetrachloroethene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Toluene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
trans-1,3-Dichloropropene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Trichloroethene	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Trichlorofluoromethane	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Vinyl chloride	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Xylenes, Total	ND	0.500		µg/L	1	4/1/2023 7:35:00 AM
Surr: 1,2-Dichlorobenzene-d4	87.4	70 - 130		%Rec	1	4/1/2023 7:35:00 AM
Surr: 1,2-Dichlorobenzene-d4	89.1	70 - 130		%Rec	1	4/4/2023 12:28:00 AM
Surr: 4-Bromofluorobenzene	92.6	70 - 130		%Rec	1	4/1/2023 7:35:00 AM
Surr: 4-Bromofluorobenzene	90.3	70 - 130		%Rec	1	4/4/2023 12:28:00 AM

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

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
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	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

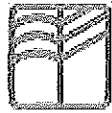
**CLIENT:** Mahoning County District Board of Health **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006 **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC ANALYSIS (8260D)</b>					<b>SW8260</b>	<b>Analyst: ALS</b>
<b>VOC BY GC/MS (8260D)</b>						
Freon-113	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
1,2,3-Trimethylbenzene	ND	5.00	QC-	µg/L	1	3/29/2023 5:57:00 PM
1,3-Butadiene	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
1,4-Dioxane	ND	25.0		µg/L	1	3/29/2023 5:57:00 PM
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
2-Nitropropane	ND	50.0		µg/L	1	3/29/2023 5:57:00 PM
Acrylonitrile	ND	30.0		µg/L	1	3/29/2023 5:57:00 PM
Allyl chloride	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Bromoethane	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
2-Chloro-1,3-Butadiene	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Cyclohexanone	ND	5.00	QC-	µg/L	1	3/29/2023 5:57:00 PM
Ethyl Ether	ND	10.0		µg/L	1	3/29/2023 5:57:00 PM
Epichlorohydrin	ND	20.0		µg/L	1	3/29/2023 5:57:00 PM
Ethanol	ND	20.0		µg/L	1	3/29/2023 5:57:00 PM
Ethyl acrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Ethyl methacrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Diisopropyl ether	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Methylacrylonitrile	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Methyl acrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Methyl methacrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Propionitrile	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Tetrahydrofuran	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
trans-1,4-Dichloro-2-butene	ND	5.00	QC-	µg/L	1	3/29/2023 5:57:00 PM
Vinyl acetate	ND	5.00		µg/L	1	3/29/2023 5:57:00 PM
Surr: 4-Bromofluorobenzene	110	70 - 130		%Rec	1	3/29/2023 5:57:00 PM
Surr: Dibromofluoromethane	98.7	70 - 130		%Rec	1	3/29/2023 5:57:00 PM
Surr: Toluene-d8	105	70 - 130		%Rec	1	3/29/2023 5:57:00 PM

<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>					<b>SW8260</b>	<b>Analyst: ALS</b>
TIC: 1-Chlorobutane	ND			µg/L	1	3/29/2023 5:57:00 PM
TIC: Benzyl chloride	ND			µg/L	1	3/29/2023 5:57:00 PM
TIC: bis(2-Chloroethyl)ether	ND			µg/L	1	3/29/2023 5:57:00 PM

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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# Analytical Report

(consolidated)

WO#: 23031750

Date Reported: 4/7/2023

**CLIENT:** Mahoning County District Board of Health      **Collection Date:** 3/23/2023 12:00:00 PM  
**Project:** EP (Revised)  
**Lab ID:** 23031750-006      **Matrix:** DRINKING WATER  
**Client Sample ID:** PW-311

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOC TENTATIVELY IDENTIFIED COMPOUNDS (TICS)</b>				<b>SW8260</b>	Analyst: ALS	
TIC: Chloroacetonitrile	ND			µg/L	1	3/29/2023 5:57:00 PM
TIC: Pentachloroethane	ND			µg/L	1	3/29/2023 5:57:00 PM

<b>Qualifiers:</b>	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected
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