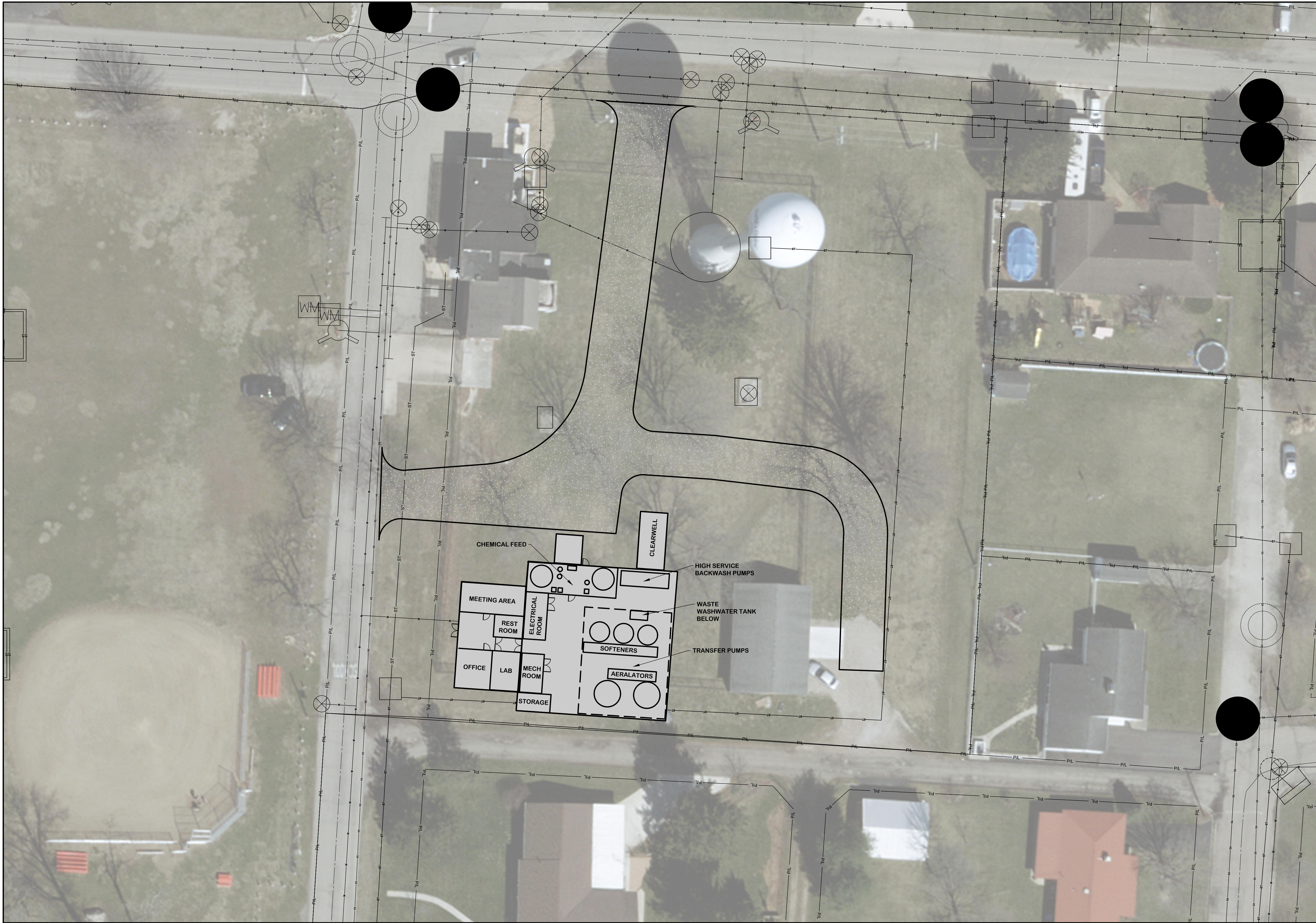


## **APPENDIX B**

---

**Site Plan**


TOL-7988001FIGURES-FIGURE 8  
1/3/2024, 11:09 AM - LBROWN  
1/3/2024, 1:37 PM



**SITE PLAN  
AERATOR OPTION  
PROPOSED WTP**

NO. 1  
DATE  
REVISIONS AFTER ISSUED FOR BID

**Jones & Henry  
Engineers, Ltd.**



Fluid thinking®  
www.JHeng.com

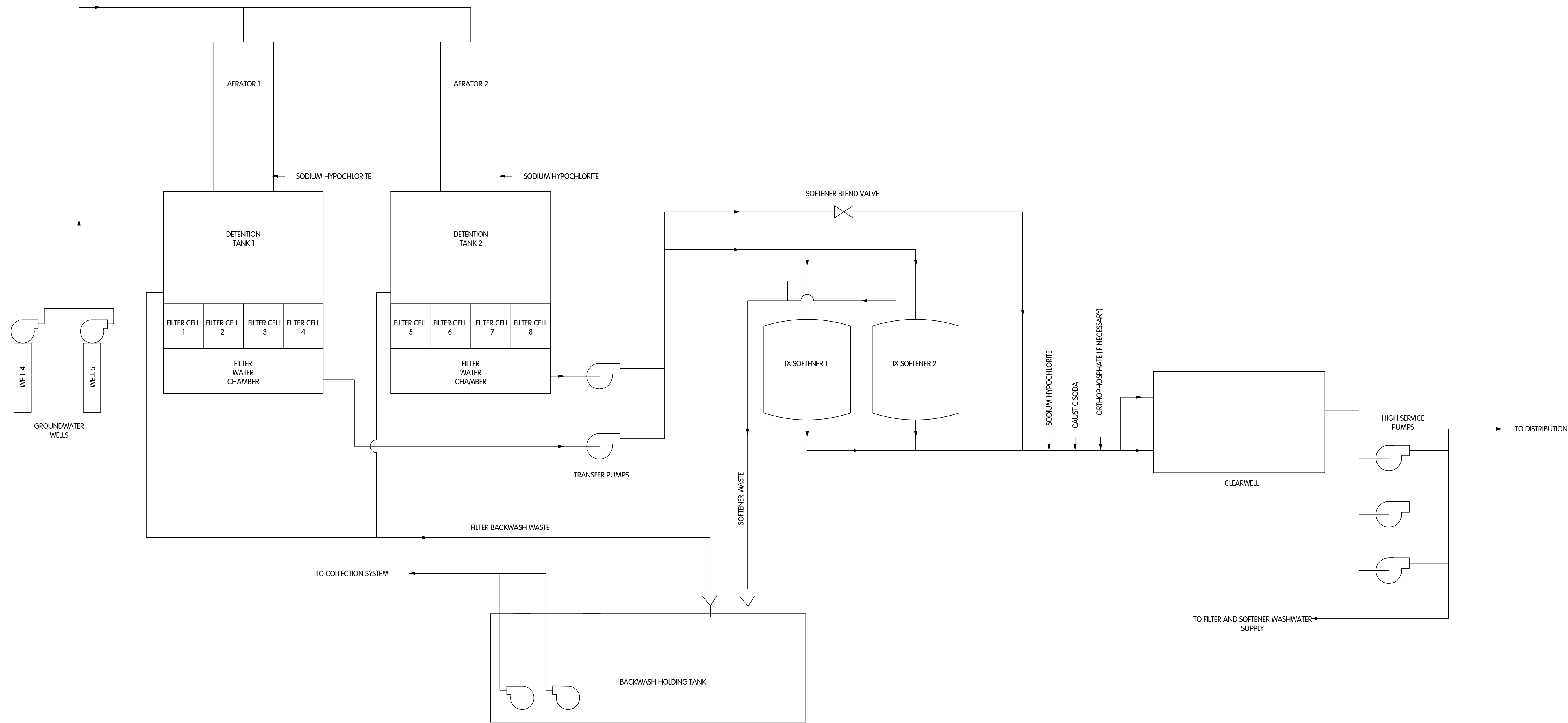
JOB NO. 1000-7988.001		
SCALE 1"=20'		
<small>THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE</small>		
DESIGNED LH	DRAWN LKB	CHECKED JDM
STATUS: PRELIMINARY		
DATE: 1/3/23		
SHEET NO. <b>FIG-3</b> 8 OF 7		

## **APPENDIX C**

---

**Process Flow Diagram**

TOL-7988001-DAL-TO-PROCESS FLOW DIAGRAM  
 12/15/2023 3:59 PM - LBROWN  
 12/18/2023 7:40 AM



PROCESS FLOW DIAGRAM  
 PROPOSED WTP

REVISIONS AFTER ISSUED FOR BID  
 NO. DATE BY

Jones & Henry  
 Engineers, Ltd.  
  
 Fluid thinking®  
 www.JHeng.com

JOB NO.	1000-7988.001	
SCALE	NONE	
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE		
DESIGNED	DRAWN	CHECKED
LH	LH	JDM
STATUS:	PRELIMINARY	
DATE:	1/3/23	
SHEET NO.		

## **APPENDIX D**

---

**COMPILED WATER QUALITY**



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

new  
well 6

Date: June 09, 2023

National Water Services LLC (1384)

Attn: Matt Barnes

281 Hamburg Rd SW

Lancaster, OH 43130

RE: Certificate of Analysis for Project - Public Drinking Water

The following report contains analytical results for samples submitted on the chain of custody dated May 05, 2023.

I have reviewed the validity of the analytical data generated. All data is reported in accordance to our laboratory QA/QC plan. Any exceptions are noted in the Case Narrative or with qualifiers in the report.

If you have any questions or need additional documentation, please contact our Office.

Sincerely,

*Cheryl Rex*

---

Cheryl Rex  
MASI Laboratories  
QA/QC Officer  
cheryl@masilabs.com  
(614) 873-4654



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

Date: June 15, 2023

National Water Services LLC (1384)

Attn: Matt Barnes

281 Hamburg Rd SW

Lancaster, OH 43130

RE: Certificate of Analysis for Project - Public Drinking Water

The following report contains analytical results for samples submitted on the chain of custody dated June 01, 2023.

I have reviewed the validity of the analytical data generated. All data is reported in accordance to our laboratory QA/QC plan. Any exceptions are noted in the Case Narrative or with qualifiers in the report.

If you have any questions or need additional documentation, please contact our Office.

Sincerely,

*Cheryl Rex*

---

Cheryl Rex  
MASI Laboratories  
QA/QC Officer  
cheryl@masilabs.com  
(614) 873-4654

Well 6

New well 6



### CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number:  
Date Received: 6/1/23 10:41  
Ohio EPA Analyzed Date: 6/15/23 10:56

Sampler Name: Grant Herron  
Sample Date/Time: 5/31/23 05:07  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockborne Eastern Rd Ashville OH

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 141916**  
**Lab Sample # : 3F00062-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>Synthetic Organic Compounds (SOC) Group 1</b>									
Alachlor	ND	ug/L		0.20	0.05	06/09/23 12:18	06/14/23 00:31	MEM	EPA Method 525.2
Atrazine	ND	ug/L		0.30	0.04	06/09/23 12:18	06/14/23 00:31	MEM	EPA Method 525.2
Simazine	ND	ug/L		0.35	0.08	06/09/23 12:18	06/14/23 00:31	MEM	EPA Method 525.2
<i>Surrogate: 1,3-Dimethyl-2-nitrobenzene</i>				<i>101%</i>		<i>70-130</i>			<i>EPA Method 525.2</i>
<i>Surrogate: Triphenylphosphate</i>				<i>97%</i>		<i>70-130</i>			<i>EPA Method 525.2</i>
<i>Surrogate: Perylene-d12</i>				<i>83%</i>		<i>70-130</i>			<i>EPA Method 525.2</i>

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.





New  
see 11  
6

### CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number:  
Date Received: 6/1/23 10:41  
Ohio EPA Analyzed Date: 6/15/23 10:56

#### Notes and Definitions

Item	Definition
mg/kg Dry	Sample results reported on a dry weight basis
ug/L	ppb/Part per Billion
mg/L	ppm/Part per Million
ND	Analyte NOT DETECTED at or above the method detection limit (MDL)
I	Analyte is at or above the Maximum Contaminate Level
MDL	Method Detection Limit
CFU	Colony Forming Units
MPN	Most Probable Number
NTU	Nephelometric Turbidity Unit
pCi/L	Picocuries per liter
SVI	Sludge Volume Index

Notes:

1. Calculated analytes are based on raw data and may not reflect the rounding of the individual compounds.
2. Samples are analyzed using the information received on the request sheet and may not be analyzed when the parameters fall outside required guidelines.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.  
No duplication of this report is allowed, except in its entirety.

New well 6

**MASI** <sup>®</sup>  
ENVIRONMENTAL  
LABORATORIES  
7940 Memorial Drive  
Plain City, OH 43084  
814-873-4654

Che **3F00062-01**  
AR #: 141916  
Received: 6/1/2023  
Matr x: Potable  
Analysis  
\*\* See 1

1st Sheet  
Bottle: 141916  
Information \*

Project Name: Ashville Well 6

Client #: 1384 Client Name: National Water Services LLC County: Pickaway P.O.# \_\_\_\_\_

Sampler Name: Grant Herron SMP ID: RS0006 Sample Type:  Compliance (C)  
 New Well (N)  
 Special/Other (O)

Sample Tap: Smooth Nose Copper Date Collected: 5/31/23 Time Collected: 5:07  
(MM/DD/YY) (hh:mm am/pm)

Tap Address: 15025 Lookbourne Eastern RD Ashville OH

Public Sample  PWS ID #: OH 65 000 12  Facility ID #: WLO 006  Private Sample

Non-Preserved Parameters	Misc. Parameters & Preservatives	SOC Parameter Groups
<input type="checkbox"/> 183 Asbestos	<input type="checkbox"/> 154 VOC (Ascorbic Acid/HCL) 524.2	<input checked="" type="checkbox"/> 900 GROUP 1 Method 525.2
<input type="checkbox"/> 158 Total (Gross) Alpha	<input type="checkbox"/> 213 TTHM (Ascorbic Acid/HCL) 524.2	<input type="checkbox"/> 899 GROUP 2 Method 515.3
<input type="checkbox"/> 159 Total (Gross) Beta	<input type="checkbox"/> 375 HAA5 (NH4CL) 552.3	<input type="checkbox"/> 903 GROUP 2 Method 531.1
<input type="checkbox"/> 254 Radium 228	<input type="checkbox"/> 171 Toluene 524.2 or 8260	<input type="checkbox"/> 898 GROUP 3 Method 508
	<input type="checkbox"/> 174 BTEX (Ascorbic Acid/HCL)	<input type="checkbox"/> 904 GROUP 3 Method 547
	<input type="checkbox"/> 317 Lithium	<input type="checkbox"/> 905 GROUP 3 Method 549.2
<input type="checkbox"/> 371 UV254	<input type="checkbox"/> 134 Titanium	<input type="checkbox"/> 900 GROUP 4 Method 525.2
<input type="checkbox"/> 354 DOC	<input type="checkbox"/> 157 Total Organic Halogens	<input type="checkbox"/> 901 GROUP 4 Method 548.1
<input type="checkbox"/> 1080 SUVA	<input type="checkbox"/> 366 Hydrogen Sulfide	<input type="checkbox"/> 701 Alachlor 525.2
	<input type="checkbox"/> 123 Sulfide	<input type="checkbox"/> 702 Atrazine 525.2
<input type="checkbox"/> 166 Bromide		<input type="checkbox"/> 707 Simazine 525.2
<input type="checkbox"/> 34 Chloride	<input type="checkbox"/> 1243 HAB Total Microcystins	<input type="checkbox"/> SOC
<input type="checkbox"/> 1195 Bromide Chloride Ratio		<input type="checkbox"/> SOC
<input type="checkbox"/> 746 2,3,7,8-TCDD (Dioxin)	<input type="checkbox"/> 1258 HAB Cyanobacteria Screening	<input type="checkbox"/> SOC
<input type="checkbox"/> 271 PAH 525.2 or 8270		<input type="checkbox"/> SOC
<input type="checkbox"/> 124 Sulfite		<input type="checkbox"/> SOC
<input checked="" type="checkbox"/> Other	Office Use Only: _____ _____ _____ _____	
<input type="checkbox"/> Other		
<input type="checkbox"/> Other		
<input type="checkbox"/> Other		
<input type="checkbox"/> Other		
		<input type="checkbox"/> 9050 MASI Use Only

N: \_\_\_\_\_ Total Containers: \_\_\_\_\_  
S: \_\_\_\_\_  
U: \_\_\_\_\_

Route: \_\_\_\_\_  
Office/Lab: \_\_\_\_\_  
COOLER: \_\_\_\_\_  
Revised 10-18-22 DN

New well



### CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:28  
Ohio EPA Analyzed Date: 6/9/23 11:26

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 07:30  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH (At Wellfield) 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199**  
**Lab Sample # : 3E01037-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>EPA 200.8 Rev. 5.4</b>									
Antimony, Total	<3.0	ug/L		3.0	3.0	05/05/23 07:30	05/17/23 20:09	SLB	EPA 200.8 Rev. 5.4
Selenium, Total	<3.0	ug/L		3.0	3.0	05/05/23 07:30	05/17/23 20:09	SLB	EPA 200.8 Rev. 5.4
Thallium, Total	<1.0	ug/L		1.0	1.0	05/05/23 07:30	05/17/23 20:09	SLB	EPA 200.8 Rev. 5.4

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## CERTIFICATE of ANALYSIS

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Organic Certification - 4100*

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:28  
Ohio EPA Analyzed Date: 6/9/23 11:26

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 07:30  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH (At Wellfield) 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199**  
**Lab Sample # : 3E01037-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>Wet Chemistry Analysis</b>									
<b>Alkalinity, Total</b>	<b>307</b>	mg/L CaCO3		4.00		05/09/23 15:40	05/09/23 15:40	MSH	SM 2320 B 2011
<b>Chloride</b>	<b>12.2</b>	mg/L		5.00	5.00	05/09/23 09:55	05/09/23 09:55	MSH	SM 4500Cl B 2011
Cyanide, Free	ND	mg/l (as free Cn)		0.003	0.0009	05/09/23 12:00	05/09/23 14:08	JAC	OIA-1677DW
<b>Fluoride</b>	<b>1.31</b>	mg/L		0.50	0.02	05/08/23 17:59	05/08/23 17:59	JOL	SM 4500 F C 2011
<b>Nitrate-Nitrite</b>	<b>0.27</b>	mg/L	<b>J</b>	0.50	0.08	05/11/23 10:00	05/11/23 11:49	JAC	SM 4500 NO3 F 2016
<b>Nitrate as N+N</b>	<b>0.273</b>	mg/L		0.500	0.0805	05/11/23 10:00	05/11/23 11:49	JAC	SM 4500NO3 F 2011
Nitrite	ND	mg/L		0.10	0.01	05/05/23 16:05	05/05/23 16:50	JAC	SM 4500 NO3 F 2016
<b>pH</b>	<b>7.43</b>	su	<b>HOLD</b>			05/05/23 15:00	05/05/23 15:00	MMM	SM 4500H B 2011
<b>Total Dissolved Solids/Total Filterable Residue</b>	<b>332</b>	mg/L		10.0	4.0	05/10/23 13:04	05/10/23 13:04	JOL	SM 2540 C 2015
<b>Sulfate</b>	<b>64.5</b>	mg/L		25.0	3.3	05/10/23 15:00	05/10/23 15:00	JOL	SM 4500 SO42 E 2011
<b>Metals Analysis</b>									
<b>Arsenic, Total</b>	<b>10</b>	ug/L		3	0.8	05/11/23 15:00	05/12/23 08:51	JMB	SM 3113 B 2010
<b>Berium, Total</b>	<b>101</b>	ug/l.		25.0	0.5	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994
Beryllium, Total	ND	ug/L		1.0	0.06	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994
Cadmium, Total	ND	ug/L		1.0	0.2	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994
<b>Calcium, Total</b>	<b>83.5</b>	mg/L		2.0	0.09	05/13/23 14:10	05/13/23 14:10	KRM	EPA 200.7 1994
Chromium, Total	ND	ug/L		5.0	0.8	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994
<b>Copper, Total</b>	<b>2</b>	ug/L	<b>J</b>	50	1	05/12/23 18:19	05/12/23 18:19	KRM	EPA 200.7 1994
<b>Iron, Total</b>	<b>1720</b>	ug/L		80	0.8	05/12/23 18:19	05/12/23 18:19	KRM	EPA 200.7 1994
Lead, Total	ND	ug/L		5.0	0.6	05/12/23 14:00	05/12/23 16:36	JMB	SM 3113 B 2010
<b>Magnesium, Total</b>	<b>28.4</b>	mg/L		5.0	0.04	05/13/23 14:10	05/13/23 14:10	KRM	EPA 200.7 1994

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No duplication of this report is allowed, except in its entirety.*

New well 6



### CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:28  
Ohio EPA Analyzed Date: 6/9/23 11:26

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 07:30  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH (At Wellfield) 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199 (Continued)**  
**Lab Sample # : 3E01037-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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#### Metals Analysis (Continued)

Manganese, Total	30	ug/L		20	0.6	05/12/23 18:19	05/12/23 18:19	KRM	EPA 200.7 1994
Mercury, Total	ND	ug/L		0.5	0.08	05/12/23 13:09	05/13/23 15:18	JMB	EPA 245.1 1994
Nickel, Total	ND	ug/L		10.0	1.2	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994
Silver, Total	ND	ug/L		10.0	0.6	05/09/23 13:21	05/09/23 13:21	KRM	EPA 200.7 1994
Sodium, Total	28.6	mg/L		5.0	0.2	05/13/23 14:10	05/13/23 14:10	KRM	EPA 200.7 1994
Zinc, Total	ND	ug/L		10.0	0.9	05/16/23 13:15	05/16/23 13:15	KRM	EPA 200.7 1994

#### Volatile Organic Chemicals (VOC)

1,1,1-Trichloroethane	ND	ug/L		0.5	0.08	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,1,2-Trichloroethane	ND	ug/L		0.5	0.04	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,1-Dichloroethene	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,2,4-Trichlorobenzene	ND	ug/L		0.5	0.04	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,2-Dichlorobenzene	ND	ug/L		0.5	0.05	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,2-Dichloroethane	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,2-Dichloropropane	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
1,4-Dichlorobenzene	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Benzene	ND	ug/L		0.5	0.05	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Carbon Tetrachloride	ND	ug/L		0.5	0.1	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Chlorobenzene	ND	ug/L		0.5	0.06	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
cis-1,2-Dichloroethene	ND	ug/L		0.5	0.05	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Ethylbenzene	ND	ug/L		0.5	0.03	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Methylene Chloride	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Styrene	ND	ug/L		0.5	0.06	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Tetrachloroethene	ND	ug/L		0.5	0.08	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Toluene	ND	ug/L		0.5	0.06	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2

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New Well



### CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
281 Hamburg Rd SW  
Lancaster, OH 43130

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:28  
Ohio EPA Analyzed Date: 6/9/23 11:26

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 07:30  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH (At Wellfield) 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199 (Continued)**  
**Lab Sample # : 3E01037-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
---------	--------	-------	------	-----------------	-----	--------------------	--------------------	---------	--------

#### Volatile Organic Chemicals (VOC) (Continued)

trans-1,2-Dichloroethene	ND	ug/L		0.5	0.08	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Trichloroethene	ND	ug/L		0.5	0.08	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Vinyl Chloride	ND	ug/L		0.5	0.07	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2
Total Xylenes	ND	ug/L		1.5	0.2	05/11/23 20:36	05/11/23 20:36	DTS	EPA Method 524.2

Surrogate: 4-Bromofluorobenzene			92%			70-130			EPA Method 524.2
Surrogate: 1,2-Dichlorobenzene-d4			81%			70-130			EPA Method 524.2

#### Synthetic Organic Compounds (SOC) Group 1

Alachlor	No Analyze	ug/L	LCS, X	0.20	0.05	05/18/23 17:47	05/18/23 17:47	MEM	EPA Method 525.2
Atrazine	No Analyze	ug/L	LCS, X	0.30	0.04	05/18/23 17:47	05/18/23 17:47	MEM	EPA Method 525.2
Simazine	No Analyze	ug/L	LCS, X	0.35	0.08	05/18/23 17:47	05/18/23 17:47	MEM	EPA Method 525.2
Surrogate: 1,3-Dimethyl-2-nitrobenzene			LCS, X						EPA Method 525.2
Surrogate: Triphenylphosphate			LCS, X						EPA Method 525.2
Surrogate: Perylene-d12			LCS, X						EPA Method 525.2

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.  
No duplication of this report is allowed, except in its entirety.

New Well



### MCL Notification

Reported: 5/12/2023 3:25:01PM

National Water Services LLC (1384) Po Box 369 Groveport, OH 41325	Project: Public Drinking Water Client Contact: Matt Barnes
---	---

*The analytes listed in this report exceed the Maximum Contamination Level*

**Sample Name: 927199**

Lab Number (Matrix): 3E01037-01 (Potable)

Sample Location: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH (At Wellfield) 43130

Date Sampled: 5/5/2023 7:30:00AM

Analyte	Result	Reporting Limit	Units	MCL
---------	--------	-----------------	-------	-----

**Metals Analysis**

Arsenic, Total	10	0.8	ug/L	10
----------------	----	-----	------	----

**A complete analytical report for your entire workorder will be sent once all requested analyses have been performed.**

*Please contact your OEPA representation for direction.*

**MASI** <sup>®</sup>

ENVIRONMENTAL  
LABORATORIES

7940 Memorial Drive  
Plain City, OH 43084  
614-873-4854

# New Well Analysis Request Sheet

Analysis Request (AR) Number Must Appear on Bottle:

\*\* See reverse for important SDS information \*\*

3E01037-01-03

927199

New Well 6

Client #: 1384 Client Name: Nat'l Water Services County: McKean P.O.# 076439

Sampler Name: Grant Henson SMP ID: RS000066 Sample Type/Class:  New Well/Special

Sample Tap: Smooth Nose Copper Date Collected: 5/5/23 Time Collected: 7:30 AM  
(MM/DD/YY) (hh:mm am/pm)

Tap Address: 15025 Lockbourne Eastern Rd Ashville OH (Newell Pictal) 43130

( ) Public Sample  PWS ID #: OH6500012 ( ) Facility ID #: WL0005

6/5/21/169, WL0006

- ( ) (New Well Trans) Transient Noncommunity
- ( ) (New Well Nontrans) Nontransient-Noncommunity
- (New Well Comm) Community Water Systems + PFAS (3 bottles)

## Work Order

## Microbiological Tests

3E01043  
(Office Use Only)

<u>01</u>	( ) 140 Total Coliform #1	Time Collected <u>7:30 AM</u> hh:mm am/pm
<u>02</u>	( ) 140 Total Coliform #2	<u>8:00 AM</u> hh:mm am/pm

Office Use Only: 6<sup>0</sup> FD  
0915  
5-5-23

Route:   
Office/Lab:   
COOLER:  MM REVISED 3/19 DN



New  
well  
6



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

June 08, 2023

Jane McIntire  
MASI Environmental Services  
7940 Memorial Dr.  
Plain City, OH 43064  
TEL: (614) 873-4654  
FAX: (614) 873-3809  
RE: 3E01037

Dear Jane McIntire:

Order No.: 23050703

Summit Environmental Technologies, Inc. received 3 sample(s) on 5/9/2023 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,

Brian J. Fackelman  
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 T10470466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

New well 6



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## Case Narrative

WO#: 23050703  
Date: 6/8/2023

**CLIENT:** MASI Environmental Services  
**Project:** 3E01037

### WorkOrder Narrative:

23050703: 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:

23050703: Ohio DW; for compliance. To be submitted to Ohio EPA

### Analytical Sequence Sample Notes:

23050703-002A SVOC-EPA537\_DW(537): Sample exhibited low recoveries for surrogates 13C2-PFHxA and 13C3-HFPO-DA, confirmed by reanalysis. Associated analytes may be biased low.

23050703-003A AlphaBeta\_DW(900.0): Sample was reanalyzed for confirmation.

Original

New  
with  
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## Workorder Sample Summary

WO#: 23050703  
08-Jun-23

**CLIENT:** MASI Environmental Services  
**Project:** 3E01037

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23050703-001	3E01037-01		5/5/2023 7:30:00 AM	5/9/2023 10:00:00 AM	Drinking Water
23050703-002	3E01037-01 Field Blank		5/5/2023 7:30:00 AM	5/9/2023 10:00:00 AM	Drinking Water
23050703-003	3E01037-01		5/5/2023 7:30:00 AM	5/9/2023 10:00:00 AM	Drinking Water

New well



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# Analytical Report

(consolidated)

WO#: **23050703**

Date Reported: **6/8/2023**

**CLIENT:** MASI Environmental Services  
**Project:** 3E01037  
**Lab ID:** 23050703-003  
**Client Sample ID:** 3E01037-01

**Collection Date:** 5/5/2023 7:30:00 AM

**Matrix:** DRINKING WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
<b>GROSS ALPHA / GROSS BETA RADIOACTIVITY (EPA 900.0)</b>					<b>E900.0</b>	<b>E900</b>	Analyst: <b>HDJ</b>
ALPHA, Gross	3.28	3.00		pCi/L	± 3.31	1	5/19/2023 10:24:00 AM
BETA, Gross	ND	4.00		pCi/L	± 0.795	1	5/19/2023 10:24:00 AM
<b>RADIUM-228 (904.0)</b>					<b>E904.0</b>	<b>E903-904</b>	Analyst: <b>HDJ</b>
Radium-228	ND	1.00		pCi/L	± 0.4	1	5/25/2023 3:40:00 PM
Yield	0.940					1	5/25/2023 3:40:00 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
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit

New  
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# Analytical Report

(consolidated)

WO#: 23050703

Date Reported: 6/8/2023

CLIENT: MASI Environmental Services

Collection Date: 5/5/2023 7:30:00 AM

Project: 3E01037

Lab ID: 23050703-001

Matrix: DRINKING WATER

Client Sample ID: 3E01037-01

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PFAS BY EPA 537.1</b>						
<b>PERFLUORINATED ALKYL ACIDS (EPA 537.1)</b>						
		<b>E537.1</b>	<b>E537.1</b>			Analyst: AEH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Perfluorobutanesulfonic acid (PFBS)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Perfluorohexanesulfonic acid (PFHxS)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Perfluorononanoic acid (PFNA)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Perfluorooctanoic acid (PFOA)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Perfluorooctanesulfonic acid (PFOS)	ND	0.00351		µg/L	1	5/23/2023 2:25:00 PM
Surr: 13C2-PFDA	92.4	70 - 130		%Rec	1	5/23/2023 2:25:00 PM
Surr: 13C2-PFHxA	78.3	70 - 130		%Rec	1	5/23/2023 2:25:00 PM
Surr: 13C3-HFPO-DA	79.5	70 - 130		%Rec	1	5/23/2023 2:25:00 PM
Surr: NETFOSAA-d5	87.4	70 - 130		%Rec	1	5/23/2023 2:25:00 PM

Qualifiers:				
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	
ND	Not Detected	PL	Permit Limit	
R	RFD outside accepted recovery limits	RL	Reporting Detection Limit	
W	Sample container temperature is out of limit as specified at testcode			

Original



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# QC SUMMARY REPORT

WO#: 23050703  
08-Jun-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**BatchID:** 65186

Sample ID:	MB-65186	TestCode:	UCHRS_SVO	Units:	µg/L	Prep Date:	5/11/2023	RunNo:	164401		
Client ID:	PBW	Batch ID:	65186	TestNo:	E537.1	Analysis Date:	5/23/2023	SeqNo:	4381151		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Perfluorobutanesulfonic acid (PFBS)	ND	0.00400									
Perfluorohexanesulfonic acid (PFHxS)	ND	0.00400			86.9	69.5	130.5				
Perfluorooctanoic acid (PFOA)	ND	0.00400			91.0	69.5	130.5				
Perfluorooctanesulfonic acid (PFOS)	ND	0.00400			88.0	69.5	130.5				
Perfluorononanoic acid (PFNA)	ND	0.00400			76.7	69.5	130.5				
Hexafluoropropylene oxide dimer acid (	ND	0.00400									
Surr: 13C3-HFPO-DA	0										
Surr: 13C2-PFDA	0.0348		0.04000								
Surr: 13C2-PFHxA	0.0364		0.04000								
Surr: 13C3-HFPO-DA	0.0352		0.04000								
Surr: NETFOSAA-d5	0.123		0.1600								

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy	
	J	Analyte detected below quantitation limits	M	Manual integration used to determine area response	MC	Value is below Minimum Compound	
	ND	Not Detected	OG1	R	P	Second column confirmation exceeds	
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
							Original

*See well 6*



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# QC SUMMARY REPORT

WO#: 23050703  
 08-Jan-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**BatchID:** 65186

Sample ID:	LCSD-65186	SampType:	LCSD	TestCode:	SVOC-EPA53	Units:	µg/L	Prep Date:	5/11/2023	RunNo:	164231
Client ID:	LCSS02	Batch ID:	65186	TestNo:	E537.1	E537.1	E537.1	Analysis Date:	5/23/2023	SeqNo:	4375952
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perfluorobutanesulfonic acid (PFBS)	0.0371	0.00400	0.03540	0	105	70	130	0.03300	11.8	20	20
Perfluorohexanesulfonic acid (PFHxS)	0.0382	0.00400	0.03650	0	105	70	130	0.03491	9.03	20	20
Perfluorooctanoic acid (PFOA)	0.0417	0.00400	0.04000	0	104	70	130	0.03628	13.9	20	20
Perfluorooctanesulfonic acid (PFOS)	0.0381	0.00400	0.03704	0	103	70	130	0.03265	15.4	20	20
Perfluorononanoic acid (PFNA)	0.0458	0.00400	0.04000	0	115	70	130	0.03913	15.8	20	20
Hexafluoropropylene oxide dimer acid (Surr: 13C2-PFDA)	0.0353	0.00400	0.04000	0	88.2	70	130	0.03396	3.81	20	20
Surr: 13C2-PFHxA	0.0348		0.04000		87.1	70	130		0	20	20
Surr: 13C3-HFPO-DA	0.0329		0.04000		82.2	70	130		0	20	20
Surr: NETFOSAA-d5	0.0322		0.04000		80.5	70	130		0	20	20
	0.120		0.1600		74.7	70	130		0	20	20

Sample ID:	MB-65186	SampType:	MBLK	TestCode:	SVOC-EPA53	Units:	µg/L	Prep Date:	5/11/2023	RunNo:	164231
Client ID:	PBW	Batch ID:	65186	TestNo:	E537.1	E537.1	E537.1	Analysis Date:	5/23/2023	SeqNo:	4375980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Perfluorobutanesulfonic acid (PFBS)	ND	0.00400									
Perfluorohexanesulfonic acid (PFHxS)	ND	0.00400									
Perfluorooctanoic acid (PFOA)	ND	0.00400									
Perfluorooctanesulfonic acid (PFOS)	ND	0.00400									
Perfluorononanoic acid (PFNA)	ND	0.00400									
Hexafluoropropylene oxide dimer acid (Surr: 13C2-PFDA)	ND	0.00400	0.04000		86.9	70	130				

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected below quantitation limits  
 ND Not Detected  
 PL Permit Limit  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 OG1  
 R RPD outside accepted recovery limits  
 H Holding times for preparation of analyte  
 MC Value is below Minimum Compound  
 P Second column confirmation exceeds  
 RL Reporting Detection Limit

Original

New  
 5/11  
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Website: <http://www.seintek.com>

# QC SUMMARY REPORT

WO#: 23050703  
08-Jun-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**Batch ID:** 65186

<b>Sample ID:</b> MB-65186	<b>SampType:</b> MBLK	<b>TestCode:</b> SVOC-EPA53	<b>Units:</b> µg/L	<b>Prep Date:</b> 5/11/2023	<b>RunNo:</b> 164231						
<b>Client ID:</b> PBW	<b>Batch ID:</b> 65186	<b>TestNo:</b> E537.1	<b>E537.1</b>	<b>Analysis Date:</b> 5/23/2023	<b>SeqNo:</b> 4375980						
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Surr: 13C2-PFHxA	0.0364		0.04000		91.0	70	130				
Surr: 13C3-HFPO-DA	0.0362		0.04000		88.0	70	130				
Surr: NETFOSAA-d5	0.123		0.1600		76.7	70	130				

<b>Sample ID:</b> LCS-65186	<b>SampType:</b> LCS	<b>TestCode:</b> SVOC-EPA53	<b>Units:</b> µg/L	<b>Prep Date:</b> 5/11/2023	<b>RunNo:</b> 164231						
<b>Client ID:</b> LCSW	<b>Batch ID:</b> 65186	<b>TestNo:</b> E537.1	<b>E537.1</b>	<b>Analysis Date:</b> 5/23/2023	<b>SeqNo:</b> 4375981						
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Perfluorobutanesulfonic acid (PFBS)	0.0330	0.00400	0.03640	0	93.2	70	130				
Perfluorohexanesulfonic acid (PFHXS)	0.0349	0.00400	0.03650	0	95.6	70	130				
Perfluorooctanoic acid (PFOA)	0.0363	0.00400	0.04000	0	90.7	70	130				
Perfluorooctanesulfonic acid (PFOS)	0.0326	0.00400	0.03704	0	88.1	70	130				
Perfluorononanoic acid (PFNA)	0.0391	0.00400	0.04000	0	97.8	70	130				
Hexafluoropropylene oxide dimer acid (	0.0340	0.00400	0.04000	0	84.9	70	130				
Surr: 13C2-PFDA	0.0358		0.04000		89.6	70	130				
Surr: 13C2-PFHxA	0.0374		0.04000		93.6	70	130				
Surr: 13C3-HFPO-DA	0.0372		0.04000		93.0	70	130				
Surr: NETFOSAA-d5	0.130		0.1600		81.3	70	130				

<b>Qualifiers:</b>	<b>B</b> Analyte detected in the associated Method Blank	<b>E</b> Value above quantitation range	<b>H</b> Holding times for preparation or analy
	<b>J</b> Analyte detected below quantitation limits	<b>M</b> Manual integration used to determine area response	<b>MC</b> Value is below Minimum Compound
	<b>ND</b> Not Detected	<b>OGI</b>	<b>P</b> Second column confirmation exceeds
	<b>PL</b> Permit Limit	<b>R</b> RPD outside accepted recovery limits	<b>RL</b> Reporting Detection Limit

New way





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# QC SUMMARY REPORT

WO#: 23050703  
 08-Jan-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**BatchID:** 65220

Sample ID: <b>MB-65220</b>	SampType: <b>MBLK</b>	TestCode: <b>AlphaBeta_D</b>	Units: <b>pCi/L</b>	Prep Date: <b>5/18/2023</b>	RunNo: <b>164240</b>						
Client ID: <b>PBW</b>	Batch ID: <b>65220</b>	TestNo: <b>E900.0</b>	<b>E900</b>	Analysis Date: <b>5/19/2023</b>	SeqNo: <b>4376198</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ALPHA, Gross	ND	3.00									
BETA, Gross	ND	4.00									

Sample ID: <b>LCS-65220</b>	SampType: <b>LCS</b>	TestCode: <b>AlphaBeta_D</b>	Units: <b>pCi/L</b>	Prep Date: <b>5/18/2023</b>	RunNo: <b>164240</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>65220</b>	TestNo: <b>E900.0</b>	<b>E900</b>	Analysis Date: <b>5/19/2023</b>	SeqNo: <b>4376199</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ALPHA, Gross	11.7	3.00	15.00	0	78.1	70	130				
BETA, Gross	16.6	4.00	20.00	0	83.1	70	130				

Sample ID: <b>RLC-65220</b>	SampType: <b>RLC</b>	TestCode: <b>AlphaBeta_D</b>	Units: <b>pCi/L</b>	Prep Date: <b>5/18/2023</b>	RunNo: <b>164240</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>65220</b>	TestNo: <b>E900.0</b>	<b>E900</b>	Analysis Date: <b>5/19/2023</b>	SeqNo: <b>4376201</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ALPHA, Gross	ND	3.00	3.000	0	87.6	50	150				
BETA, Gross	ND	4.00	4.000	0	89.2	50	150				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- J Analyte detected below quantitation limits
- ND Not Detected
- PL Permit Limit
- E Value above quantitation range
- M Manual integration used to determine area response
- OG1
- R RPD outside accepted recovery limits
- H Holding times for preparation or anal.
- MC Value is below Minimum Compound
- P Second column confirmation exceeds
- RL Reporting Detection Limit

*New copy 6*



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# QC SUMMARY REPORT

WO#: 23050703  
08-Jun-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**BatchID:** 65220

Sample ID: 23051142-001AMS    SampType: MS    TestCode: AlphaBeta\_D    Units: pCi/L    Prep Date: 5/18/2023    RunNo: 164240  
Client ID: BatchQC    BatchID: 65220    TestNo: E900.0    E900    Analysis Date: 5/19/2023    SeqNo: 4376202

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ALPHA, Gross	17.7	3.00	15.00	3.025	97.9	70	130				
BETA, Gross	17.3	4.00	20.00	0	86.6	70	130				

**Qualifiers:** B Analyte detected in the associated Method Blank    H Holding times for preparation or analy  
J Analyte detected below quantitation limits    MC Value is below Minimum Compound    Original  
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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# QC SUMMARY REPORT

WO#: 23050703  
 08-Jun-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**BatchID:** 65242

**Sample ID:** MB-65242    **SampType:** MBLK    **TestCode:** Radium-228\_    **Units:** pCi/L    **Prep Date:** 5/18/2023    **RunNo:** 164822  
**Client ID:** PBW    **Batch ID:** 65242    **TestNo:** E904.0    **E903-904**    **Analysis Date:** 5/25/2023    **SeqNo:** 4396658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.940			0	0						

**Sample ID:** LCS-65242    **SampType:** LCS    **TestCode:** Radium-228\_    **Units:** pCi/L    **Prep Date:** 5/18/2023    **RunNo:** 164822  
**Client ID:** LCSW    **Batch ID:** 65242    **TestNo:** E904.0    **E903-904**    **Analysis Date:** 5/25/2023    **SeqNo:** 4396659

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.82	1.00	5.000	0	76.4	70	130				
Yield	0.950			0	0						

**Sample ID:** LCSD-65242    **SampType:** LCSD    **TestCode:** Radium-228\_    **Units:** pCi/L    **Prep Date:** 5/18/2023    **RunNo:** 164822  
**Client ID:** LCSS02    **Batch ID:** 65242    **TestNo:** E904.0    **E903-904**    **Analysis Date:** 5/25/2023    **SeqNo:** 4396660

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130	3.820	0.262	20	
Yield	0.940			0	0			0.9500	1.06		

**Qualifiers:** B Analyte detected in the associated Method Blank    H Holding times for preparation or analy  
 J Analyte detected below quantitation limits    MC Value is below Minimum Compound  
 ND Not Detected    P Second column confirmation exceeds  
 PL Permit Limit    R RPD outside accepted recovery limits    RL Reporting Detection Limit

Original

New well 6



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

# QC SUMMARY REPORT

WO#: 23050703  
 08-Jun-23

**Client:** MASI Environmental Services  
**Project:** 3E01037

**Batch ID:** 65242

Sample ID: RLC-65242	Samp Type: RLC	TestCode: Radium-228_	Units: pCi/L	Prep Date: 5/18/2023	RunNo: 164822						
Client ID: BatchQC	Batch ID: 65242	TestNo: E904.0	E903-904	Analysis Date: 5/25/2023	SeqNo: 4396662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	61.0	50	150				
Yield	1.00			0	0						

Sample ID: RLCD-65242	Samp Type: RLC	TestCode: Radium-228_	Units: pCi/L	Prep Date: 5/18/2023	RunNo: 164822						
Client ID: BatchQC	Batch ID: 65242	TestNo: E904.0	E903-904	Analysis Date: 5/25/2023	SeqNo: 4396663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	97.0	50	150				
Yield	0.870			0	0						

Sample ID: 23050621-005AMS	Samp Type: MS	TestCode: Radium-228_	Units: pCi/L	Prep Date: 5/18/2023	RunNo: 164822						
Client ID: BatchQC	Batch ID: 65242	TestNo: E904.0	E903-904	Analysis Date: 5/25/2023	SeqNo: 4396664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.61	1.00	5.000	0	72.2	70	130				
Yield	0.960		0.9900		0						

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected below quantitation limits  
 ND Not Detected  
 PL Permit Limit  
 E Value above quantitation range  
 M Manual Integration used to determine area response  
 OGI  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or anal  
 MC Value is below Minimum Compound  
 P Second column confirmation exceeds  
 RL Reporting Detection Limit

New  
 way  
 6



Summit Environmental Technologies, Inc  
 3310 Win S  
 Cuyahoga Falls, Ohio 4422  
 TEL: (330) 253-8211 FAX: (330) 253-448  
 Website: <http://www.settek.co>

## Qualifiers and Acronyms

WO#: 23050703  
 Date: 6/8/2023

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.

Original

New Well 6



SUBCONTRACT ORDER

23050703

Sending Laboratory:

Mobile Analytical Services, Inc.  
7940 Memorial Dr  
Plain City, OH 43064  
Phone: 614-873-4654  
Project Manager: Audrey Cooper

Subcontracted Laboratory:

Summit Environmental Technologies (5626)  
3310 Win Street  
Cuyahoga Falls, OH 44223  
Phone: (330) 253-8211

Work Order: 3E01037

Analysis	Expires	Method	Comments
<b>Sample ID: 3E01037-01 Potable Sampled: 05/05/2023 07:30</b>			
CB-PFOA/PFOS	05/19/2023 07:30		
Radium-228	11/01/2023 07:30		
Gross Beta	11/01/2023 07:30		
Gross Alpha	11/01/2023 07:30		
Containers Supplied: 4			PH=1 Cpm=0

Released By AM

Date 5/8/23

Received By C. Cooper

Date 5/9/23

4.870.1-1  
9  
UPS  
Cooper  
1000

new well 6

**MASI** <sup>®</sup>  
 ENVIRONMENTAL  
 LABORATORIES  
 7940 Memorial Drive  
 Plain City, OH 43084  
 614-873-4854

**New Well Analysis Request Sheet**

3E01037-01-03

Analysis Request (AR) Number Must Appear on Bottle: **927199**

\*\* See reverse for important SDS information \*\*

Client #: 1384 Client Name: Nat'l Water Services County: MILKANA P.O.# 076439

Sampler Name: Grant Heaton SMP ID: R50006 Sample Type/Class:  New Well/Special

Sample Tap: Smooth Neck Cap Date Collected: 5/5/23 Time Collected: 7:30 AM  
(MM/DD/YY) (hh:mm am/pm)

Tap Address: 15025 Lockbourne Eastern Rd Ashville OH (New Well Special) 43130

( ) Public Sample  PWS ID #: OH6500012 ( ) Facility ID #: W-0005  
6557169

( ) (New Well Trans) Transient Noncommunity

( ) (New Well Nontrans) Nontransient-Noncommunity

(New Well Comm) Community Water Systems + PFAS (3 bottles)

Work Order 3E01043 (Office Use Only) **Microbiological Tests**

-01	( ) 140 Total Coliform #1	Time Collected <u>7:30 AM</u> hh:mm am/pm
-02	( ) 140 Total Coliform #2	<u>8:00 AM</u> hh:mm am/pm

Office Use Only: 6<sup>0</sup> FD  
0915  
5-5-23

Route: \_\_\_\_\_

Office/Lab: \_\_\_\_\_

COOLER: \_\_\_\_\_ REVISED 3/19 DN



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

*new way*

## Sample Log-In Check List

Client Name: **MAS-OH-43017**

Work Order Number: **23050703**

RcptNo: 1

Logged by: **Anthony W. Britton** 5/9/2023 10:00:00 AM

*Anthony Britton*

Completed By: **Anthony W. Britton** 5/9/2023 6:01:02 PM

*Anthony Britton*

Reviewed By: **Brian J. Fackelman** 5/10/2023 6:10:37 PM

*Brian*

### 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? (Note discrepancies on chain of custody) Yes  No
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? (If no, notify customer for authorization.) Yes  No

### Special Handling (if applicable)

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

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

18. Additional remarks:

coc lists sample as having 4 containers, but one is an empty DI water bottle so there are only 3 containers for the sample.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Not Present			



new  
well  
6



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

# INVOICE

Please refer to this invoice number on your remittance:

Date	Invoice No.
06/09/2023	3230845

**Bill to:**

National Water Services LLC (1384)  
 Client # 1384  
 Accounts Payable  
 524 North East Third Street PO Box 230  
 Paoli, IN 47454  
 (614) 492-9282  
 Client PO : 076439

**Remit To:**

Accounts Receivable  
 7940 Memorial Dr.  
 Plain City, OH 43064

Date Received: 05-May-23  
 Date Reported: 09-Jun-23

**Workorder: 3E01037**

**P.O. Number: 076439**

**Received Date: 5/5/2023**

Lab#	AR Ref#	Analysis Requested	Price
3E01037-01	927199		
		Antimony, Total 200.8	\$0.00
		C8-PFOA/PFOS	\$0.00
		New Well Comm	\$1,351.85
		Selenium, Total by 200.8	\$0.00
		Thallium, Total 200.8	\$0.00
		Turbidity, Metals Check	\$0.00

Terms: DUE UPON RECEIPT

<b>Surcharge:</b>	<b>\$0.00</b>
-------------------	---------------

<b>Total:</b>	<b>\$1,351.85*</b>
---------------	--------------------

**Payments will not be processed without reference to Invoice number 3230845 on your check.**

*On January 1, 2023, MASI enacted a 8.5% price increase. This increase will allow us to continue to provide our clients the quality service they expect, and which MASI's dedication to quality demands. Please direct any questions, to our Sales Manager, Bridget Troesch (bridget@masilabs.com).*

*\*A service fee of 3% of the total amount owed will be charged for payments made by credit card.*



7940 Memorial Drive Plain City, Ohio 43064 (614) 873-4654

*New Well 6*

Date: May 08, 2023

National Water Services LLC (1384)

Attn: Matt Barnes

Po Box 369

Groveport, OH 41325

RE: Certificate of Analysis for Project - Public Drinking Water

The following report contains analytical results for samples submitted on the chain of custody dated May 05, 2023.

I have reviewed the validity of the analytical data generated. All data is reported in accordance to our laboratory QA/QC plan. Any exceptions are noted in the Case Narrative or with qualifiers in the report.

If you have any questions or need additional documentation, please contact our Office.

Sincerely,

*Cheryl Rex*

---

Cheryl Rex  
MASI Laboratories  
QA/QC Officer  
cheryl@masilabs.com  
(614) 873-4654



*New Well 6*

**CERTIFICATE of ANALYSIS**

*Microbiological/Inorganic Certification - 877  
Organic Certification - 4100*

National Water Services LLC  
Matt Barnes  
Po Box 369  
Groveport, OH 41325

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:40  
Ohio EPA Analyzed Date: 5/8/23 13:37

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 07:30  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH At WellField 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199-01**  
**Lab Sample # : 3E01043-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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**Microbiology**

Total Coliform	Absence	/ 100 ml		N/A	N/A	05/05/23 14:27	05/06/23 11:05	KRM	SM 9223 B
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*The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.  
No duplication of this report is allowed, except in its entirety.*



New well 6

## CERTIFICATE of ANALYSIS

Microbiological/Inorganic Certification - 877  
Organic Certification - 4100

National Water Services LLC  
Matt Barnes  
Po Box 369  
Groveport, OH 41325

Client #: 1384  
PO Number: 076439  
Date Received: 5/5/23 15:40  
Ohio EPA Analyzed Date: 5/8/23 13:37

Sampler Name: Grant Herron  
Sample Date/Time: 5/5/23 08:00  
Sample Monitoring Point: RS0006  
Sample Type: SP  
Sample Tap/Address: Smooth Nose Copper 15025 Lockbourne Eastern Rd Ashville OH At WellField 43130

PWSID: OH6500012 Facility ID: WL0006  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 927199-02**  
**Lab Sample # : 3E01043-02 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
---------	--------	-------	------	-----------------	-----	--------------------	--------------------	---------	--------

### Microbiology

Total Coliform	Absence	/ 100 ml		N/A	N/A	05/05/23 14:27	05/06/23 11:05	KRM	SM 9223 B
----------------	---------	----------	--	-----	-----	----------------	----------------	-----	-----------

New Well 6

# MASI®

ENVIRONMENTAL  
LABORATORIES

7940 Memorial Drive  
Plain City, OH 43064  
614-873-4654

3E01037-01-03

## New Well Analysis Request Sheet

Analysis Request (AR) Number Must Appear on Bottle: **927199**

\*\* See reverse for important SDS information \*\*

Client #: 1384 Client Name: Nat'l Water Services County: McKean P.O.#: 076439

Sampler Name: Grant Henson SMP ID: RS00006 Sample Type/Class:  New Well/Special

Sample Tap: Smooth Nose Copper Date Collected: 5/5/23 Time Collected: 7:30 AM  
(MM/DD/YY) (hh:mm am/pm)

Tap Address: 15025 Lockbourne Eastern Rd Ashtville OH (New Well (Pithead)) 43130

Public Sample  PWS ID #: OH6500012  Facility ID #: WL0005  
6/15/17/11/18 WL0006

(New Well Trans) Transient Noncommunity

(New Well Nontrans) Nontransient-Noncommunity

(New Well Comm) Community Water Systems + PFAS (3 bottles)

### Work Order

### Microbiological Tests

3E01043

(Office Use Only)

01

140 Total Coliform #1

Time Collected

7:30 AM  
hh:mm am/pm

02

140 Total Coliform #2

8:00 AM  
hh:mm am/pm

Office Use Only:

6° FD

0915

5-5-23

Route

Office/Lab

COOLER:

REvised 3/19 DN



Ambient Ground Water Quality Monitoring Program  
**Ground Water Quality Results**

Charge Balance Error +0.5%

Analyte Count on Sheet 30  
 Analyte Detected Count 17

Station Name **Ashville Wellfield** Well Num **4** Ambient Well ID **39PIC08945** Samp. Status **Standby** PWS ID **OH6500012**  
 Sample Num **171011** Sample Date/Time **10/28/2014 10:30:00** Sampler **Byerly, Sarah** Sample Type **Inorganic** Dupe/QC Code **None**  
 Chem. Sheet ID **12605** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **831788**  
 Well Depth (ft) **141** Casing Length (ft) **70** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **WalnutCreek**

FieldParameter	Result/Unit	Reporting Limit	Comment	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-110 mV	N/A			
pH	7.03 SU	N/A			
Specific conductance	706 umhos/cm	N/A			
Temperature, water	13 deg C	N/A			
Total Dissolved Solids (TDS), Field	482 mg/L	N/A			
<b>Metals-ICP</b>					
Aluminum	ND	200 ug/L			USEPA 200.7
Barium	156 ug/L	15 ug/L			USEPA 200.7
Calcium	86.1 mg/L	2 mg/L			USEPA 200.7
Chromium	ND	2 ug/L			USEPA 200.8
Copper	ND	2 ug/L			USEPA 200.8
Hardness, Ca + Mg	346 mg/L	10 mg/L			USEPA 200.7
Iron	1670 ug/L	50 ug/L	> SMCL (0.3 mg/L)		USEPA 200.7
Lead	ND	2 ug/L			USEPA 200.8
Magnesium	31.7 mg/L	1 mg/L			USEPA 200.7
Manganese	64 ug/L	10 ug/L	> SMCL (0.05 mg/L)		USEPA 200.7
Nickel	ND	2 ug/L			USEPA 200.8
Potassium	ND	2 mg/L			USEPA 200.7
Sodium	20.7 mg/L	5 mg/L			USEPA 200.7
Strontium	7020 ug/L	300 ug/L			USEPA 200.7
Zinc	ND	10 ug/L			USEPA 200.7
<b>Metals-ICPMS</b>					
Arsenic	8.3 ug/L	2 ug/L	83.0% of MCL (0.01 mg/L)		USEPA 200.8
Cadmium	ND	0.2 ug/L			USEPA 200.8
Selenium	ND	2 ug/L			USEPA 200.8
<b>Nutrients-Demand</b>					
Ammonia	0.64 mg/L	0.05 mg/L			USEPA 350.1
Carbon, Total Organic (TOC)	ND	2 mg/L			SM 5310B
Chemical Oxygen Demand (COD)	ND	20 mg/L			SM 5220D
Nitrate+Nitrite as N	ND	0.1 mg/L			USEPA 350.1
Nitrogen, Total Kjeldahl (TKN)	0.68 mg/L	0.2 mg/L			USEPA 351.2
Phosphorus	ND	0.01 mg/L			USEPA 365.4
<b>Unpreserved</b>					
Alkalinity, Total	315 mg/L	5 mg/L			USEPA 310.1
Bromide	59.9 ug/L	40 ug/L			USEPA 300.1
Chloride	12 mg/L	5 mg/L			USEPA 325.1
Fluoride	1.04 mg/L	0.2 mg/L	52.0% of SMCL (2 mg/L)		SM 4500-FC
Sulfate	54.9 mg/L	10 mg/L			USEPA 375.2
Total Dissolved Solids	424 mg/L	10 mg/L			SM 2540C

Field Comments breezy 68F mostly cloudy humid. \*\*sampled the standby well #4\*\*

End of sample # 171011

**Explanations**

ND: Non Detect  
 QL: Quantition Limit  
 N/A: Not Applicable

**Results color fields**

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

**Sky Blue**

- Sky Blue** Organic samples only; indicates a detect
- Tan** Exceeds Action Level (lead and copper only)
- Violet** Exceeds Secondary MCL
- Brick Red** Exceeds Primary MCL
- Yellow** CBE exceeds +/- 5%



Mike DeWine, Governor  
Jon Husted, Lt. Governor  
Laurie A. Stevenson, Director

Well  
3

May 10, 2022

Jim Welsh  
jwelsh@ashvilleohio.gov  
Utility Operator  
200 East Station Street  
Ashville, Ohio 43103

RE: Ashville Village PWS  
Report  
Ambient Ground Water Quality  
Monitoring Program  
Pickaway County  
PWSID: OH6500012

Subject: Results for Spring 2021 Ambient Ground Water Quality Monitoring Event

Dear Mr. Welsh:

Ohio EPA's Division of Environmental Services (DES) has completed the laboratory analysis of the ground water samples that were collected on 5/19/2021 from Ashville Well 3. Samples are collected at your well as part of Ohio EPA's Ambient Ground Water Quality Monitoring Program (AGWQMP).

The purpose of the AGWQMP is to collect raw water data to characterize general ground water quality statewide and evaluate the quality of the source water used by ground water-based public water systems. The results represent raw water and cannot be used to fulfill any drinking water regulatory requirement, nor do they represent finished water quality. The results from the recent sample are summarized in the attached Ground Water Quality Results report. An exceedance of a finished water benchmark is indicated by a color-code.

If the attached Ground Water Quality Results report includes values greater than benchmarks, you may consider comparing them to previous results for this well using the attached ground water quality time series plots and the attached Ground Water Well Summary reports. The applicable benchmarks for the parameters analyzed are summarized in the attached document titled, "Maximum Contaminant Level (MCL), Secondary MCL (SMCL), Action Level (AL), and Health Advisory (HA) Values for Parameters Included in the AGWQMP".

When these results are combined with results from previous AGWQMP sampling, they may guide you in identifying potential raw water changes and provide information on source water treatability or usability. If values greater than the benchmark are consistent with past results or represent an increasing trend, additional evaluation may be warranted to determine if your treatment is reducing your finished water concentrations to levels below the benchmarks.

If you are concerned about the current levels in your source water, please call your drinking water inspector or AGWQMP sampler to discuss options for further evaluation. Information on health effects and treatment can be found at:

EPA Drinking Water Treatability Data Base: <https://iaspub.epa.gov/tdb/pages/general/home.do>

We thank you for your interest and participation in the AGWQMP and hope the results provided are useful. If you have any questions, please do not hesitate to contact me at Sydney.Funk@epa.ohio.gov. Additional information about Ohio EPA's Ambient Ground Water Quality Monitoring Program, including water quality summary reports and an interactive map, are available at our webpage:

<https://oepa.maps.arcgis.com/apps/webappviewer/index.html?id=b39b9cbeb3834e9ca598d968d16333ce>

Thank you for your participation.

Sincerely,



Sydney Funk  
Geologist  
Division of Drinking and Ground Waters

Attachments: Ground Water Quality Results  
MCL, SMCL, AL, and HA Values for Parameters Included in the AGWQMP  
Benchmark Table  
Approach for Evaluating Results that Exceed Benchmarks Using Time Series



well  
3

### Approach for Evaluating Results that Exceed Benchmarks Using Time Series

If your results include elevated results, we recommend that you view the time series for your well by following the steps below.

1. Open the Ambient Ground Water Quality Monitoring Program (AGWQMP) Interactive Map at the bottom of the Ambient Monitoring tab:

<https://oepa.maps.arcgis.com/apps/webappviewer/index.html?id=b39b9cbeb3834e9ca598d968d16333ce>

2. To view the time series for your well, locate your well in Ohio and right click on it. This brings up a pop-up box with information about your well and links to three reports:
  - inorganic results summary;
  - organic results summary; and
  - time series.
3. The time series plots all the results in the order of collection.



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error  
-2.8%

Analyte Count on Sheet 31  
Analyte Detected Count -1

well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **21050310-0** Sample Date/Time **5/19/2021 11:30:00** Sampler **Poole, Sydney** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **15469** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-91	N/A				
pH	7.32	N/A				
Specific Conductance	679	N/A				
Temperature, water	16.6	N/A			ValueBetweenQL-Std	
Total Dissolved Solids (TDS), Field	469	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Barium	131	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Calcium	87.3	2 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Copper	ND	2 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Hardness, Ca + Mg	349	10 mg/L				401.1 (200.7/6010)
Iron	1930	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Magnesium	31.9	1 mg/L				401.1 (200.7/6010)
Manganese	60.8	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	ND	2 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Potassium	ND	2 mg/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Sodium	20.3	5 mg/L				401.1 (200.7/6010)
Strontium	6440 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)

## Metals-ICPMS

Arsenic	11.9	2 ug/L	> MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.545	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std	335.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	320.4 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	250.8 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.743	0.3 mg/L				250.6 (351.2)
Phosphorus	0.0231	0.01 mg/L				260.8 (365.4)

## Unpreserved

Alkalinity, Total	343	5 mg/L				220.1 (310.1)
Bromide	ND	100 ug/L			ValueBetweenQL-Std	290.1 (300.1)
Chloride	15.7	5 mg/L				230.2 (325.1)
Fluoride	0.852	0.1 mg/L				290.1 (300.1)
Sulfate	51.5	10 mg/L				270.3 (375.2)
Total Dissolved Solids	424	10 mg/L				130.2 (USGS I-175C)

### Field Comments

End of sample # 21050310-03

#### Explanations

ND: Non Detect  
QL: Quantitation Limit  
N/A: Not Applicable

#### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

#### Sky Blue

Organic samples only; indicates a detect  
 Tan Exceeds Action Level (lead and copper only)  
 Violet Exceeds Secondary MCL  
 Brick Red Exceeds Primary MCL  
 Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge  
Balance  
Error  
N/A

Analyte Count on Sheet 67  
Analyte Detected Count -1

W3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **21050310-0** Sample Date/Time **5/19/2021 11:30:00** Sampler **Poole, Sydney** Sample Type **Organic** QC Code **None**  
 Chem. Sheet ID **15470** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
2-Butanone	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
4-Methyl-2-pentanone	ND	1 ug/L			QL is estimated	531.0 (624.1/8260
4-Methyl-2-pentanone	ND	1 ug/L			QL is estimated	531.0 (624.1/8260
Acetone	ND	5 ug/L			QL is estimated	531.0 (624.1/8260
Acetone	ND	5 ug/L			ValueBetweenQL-Std	531.0 (624.1/8260
Acetone	ND	5 ug/L			QL is estimated	531.0 (624.1/8260
Acetone	ND	5 ug/L			ValueBetweenQL-Std	531.0 (624.1/8260
Acrylonitrile	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Benzene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Bromoform	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Butyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Butylbenzene, sec-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Butylbenzene, tert-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Carbon disulfide	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Carbon tetrachloride	ND	2 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chlorobenzene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chlorodibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chloroethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chloroform	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chlorotoluene, 2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Chlorotoluene, 4-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Cumene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Cymene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichlorobenzene, 1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichlorobenzene, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichlorobenzene, 1,4-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichlorodifluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloroethane, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloroethane, 1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloroethene, trans-1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloroethylene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloroethylene, cis-1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropane, 1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropane, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropane, 2,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropene, 1,3 cis-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Dichloropropene, 1,3 trans-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Ethyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Ethylene dibromide (EDB)	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Hexanone, 2-	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Iodomethane	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Methyl bromide	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Methyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260
Methyl tertiary butyl ether (MTBE)	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error  
N/A

Analyte Count on Sheet 67  
Analyte Detected Count -1

Well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC0888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **21050310-0** Sample Date/Time **5/19/2021 11:30:00** Sampler **Poole, Sydney** Sample Type **Organic** QC Code **None**  
 Chem. Sheet ID **15470** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Methylene chloride	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Monobromobenzene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Propylbenzene, n-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Styrene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Tetrachloroethylene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Toluene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			QL is estimated	531.0 (624.1/8260)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			QL is estimated	531.0 (624.1/8260)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichloroethane, 1,1,1-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichloroethane, 1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichloroethylene	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trihalomethanes (unspecified mix)	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Vinyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)
Xylenes, m- & p- Mix	ND	1 ug/L			ValueBelowQCStandard	531.0 (624.1/8260)

**Field Comments**

End of sample # 21050310-03

**Explanations**

ND: Non Detect  
 QL: Quantition Limit  
 N/A: Not Applicable

**Results color fields**

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

- Sky Blue** Organic samples only: indicates a detect
- Tan** Exceeds Action Level (lead and copper only)
- Violet** Exceeds Secondary MCL
- Brick Red** Exceeds Primary MCL
- Yellow** CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance

6/21/13

**Maximum Contaminant Level (MCL), Secondary MCL (SMCL), Action Level (AL),  
and Health Advisory (HA) Values  
for Parameters Included in the AGWQMP**

Parameter	Maximum Contaminant Level	Secondary Maximum Contaminant Level	Action Level	Life-time Health Advisory	One & Ten-day Health Advisory
Aluminum		200 µg/L			
Ammonia				30 mg/L	
Arsenic	10 µg/L				
Barium	2,000 µg/L				700 µg/L
Cadmium	5 µg/L			5 µg/L	40 µg/L
Chloride		250 mg/L			
Chromium	100 µg/L				1,000 µg/L
Copper			1300 µg/L		
Fluoride	4 mg/L	2 mg/L			
Iron		300 µg/L			
Lead			15 µg/L		
Manganese**		50 µg/L		300 µg/L	1,000 µg/L
Nickel				100 µg/L	1,000 µg/L
Nitrate	10 mg/L				10 mg/L
pH		6.5 - 8.5 SU***			
Selenium	50 µg/L			50 µg/L	
Strontium				4,000 µg/L	25,000 µg/L
Sulfates		250 mg/L			
Total Dissolved Solids		500 mg/L			
Zinc		5,000 µg/L		2,000 µg/L	6,000 µg/L

These standards apply to water distributed to the public by public water systems.

\* MCLs, SMCLs and ALs are used as benchmarks for AGWQMP raw water samples.

\*\* World Health Organization dropped its 400 µg/L health based DW standard in 2011.

\*\*\* 7.0-10.5 on Ohio EPA webpage; note: application is outside the range, not inside.



## CERTIFICATE of ANALYSIS

*Microbiological/Inorganic Certification - 877*

*Organic Certification - 4100*

Ashville WTP  
 Jim Welsh  
 200 East Station Street  
 Ashville, OH 43103

Client #: 6196  
 PO Number:  
 Date Received: 4/14/22 14:49  
 Ohio EPA Analyzed Date: 4/28/22 11:16

Sampler Name: Jim Welsh  
 Sample Date/Time: 4/14/22 12:15  
 Sample Monitoring Point: EP001  
 Sample Type: RT  
 Sample Tap/Address: Final Lab Tap, 140 Park Street, Ashville

PWSID: OH6500012 Facility ID: 6557169  
 Repeat Sample #:  
 Total Chlorine (mg/L):  
 Free Chlorine (mg/L):  
 Combined Chlorine (mg/L):

**Sample ID: 977118**

**Lab Sample # : 2D01703-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
<b>EPA 200.8 Rev. 5.4</b>									
Antimony, Total	<3.0	ug/L		3	3	04/14/22 12:15	04/26/22 13:30	CMB	EPA 200.8 Rev. 5.4
Selenium, Total	<3.0	ug/L		3	3	04/14/22 12:15	04/26/22 13:30	CMB	EPA 200.8 Rev. 5.4
Thallium, Total	<1.0	ug/L		1	1	04/14/22 12:15	04/26/22 13:30	CMB	EPA 200.8 Rev. 5.4
<b>EPA 335.4 Rev. 1.0</b>									
Cyanide, Total	<0.005	mg/L		0.005	0.005	04/14/22 12:15	04/26/22 10:02	DLQ	EPA 335.4 Rev. 1.0
<b>SM 4500-F B,C-11,</b>									
<b>Fluoride</b>	<b>0.975</b>	mg/L		0.1	0.1	04/14/22 12:15	04/18/22 15:45	LGE	SM 4500-F B,C-11, SM 4500-F C-97



## CERTIFICATE of ANALYSIS

*Microbiological/Inorganic Certification - 877*  
*Organic Certification - 4100*

Ashville WTP  
Jim Welsh  
200 East Station Street  
Ashville, OH 43103

Client #: 6196  
PO Number:  
Date Received: 4/14/22 14:49  
Ohio EPA Analyzed Date: 4/28/22 11:16

Sampler Name: Jim Welsh  
Sample Date/Time: 4/14/22 12:15  
Sample Monitoring Point: EP001  
Sample Type: RT  
Sample Tap/Address: Final Lab Tap, 140 Park Street, Ashville

PWSID: OH6500012 Facility ID: 6557169  
Repeat Sample #:  
Total Chlorine (mg/L):  
Free Chlorine (mg/L):  
Combined Chlorine (mg/L):

**Sample ID: 977118**  
**Lab Sample # : 2D01703-01 (Potable)**

Analyte	Result	Units	Qual	Reporting Limit	MDL	Date/Time Prepared	Date/Time Analyzed	Analyst	Method
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**Metals Analysis**

Arsenic, Total	ND	ug/L		3.0	0.8	04/25/22 11:00	04/25/22 12:34	JMB	SM 3113 B 2010
<b>Barium, Total</b>	<b>113</b>	ug/L		25.0	2.8	04/15/22 15:07	04/15/22 15:07	JMB	EPA 200.7 1994
Beryllium, Total	ND	ug/L		1.0	0.2	04/15/22 15:07	04/15/22 15:07	JMB	EPA 200.7 1994
Cadmium, Total	ND	ug/L		1.0	0.9	04/15/22 15:07	04/15/22 15:07	JMB	EPA 200.7 1994
Chromium, Total	ND	ug/L		5.0	4.9	04/15/22 15:07	04/15/22 15:07	JMB	EPA 200.7 1994
Mercury, Total	ND	ug/L		0.5	0.08	04/25/22 14:35	04/26/22 12:50	JMB	EPA 245.1 1994
Nickel, Total	ND	ug/L		10.0	2.2	04/15/22 15:07	04/15/22 15:07	JMB	EPA 200.7 1994

**MASI** <sup>®</sup>  
 ENVIRONMENTAL  
 LABORATORIES  
 7940 Memorial Drive  
 Plain City, OH 43064  
 614-873-4654

Che 2D01703-01  
 Analy AR # 977118  
 Received: 4/14/2022  
 Matrix: Potable  
 \*\* Se

1st Sheet  
 appear on Bottle: 977118  
 information \*\*

Client #: 696 Client Name: Village of Ashville County: PICKAWAY P.O.# N/A

Sampler Name: Jim Welsh SMP ID: EP001 Sample Type:  Compliance (C)  
 New Well (N)  
 Special/Other (O)

Sample Tap: FWAC LAB TAP Date Collected: 4-14-22 Time Collected: 1215  
 (MM/DD/YY) (hh:mm am/pm)

Tap Address: 140 park street, Ashville

Public Sample  PWS ID #: OH6500012  Facility ID #: 6557169  Private Sample

Non-Preserved Parameters	Parameters Preserved with Sulfuric Acid (S)	Parameters Preserved with Nitric Acid (N)	
<input type="checkbox"/> 004 Alkalinity, Stab.	<input type="checkbox"/> 099 Phosphate, Total (PO4) as P	<input checked="" type="checkbox"/> 909 Antimony, Sb	
<input type="checkbox"/> 005 Alkalinity, Total	<input type="checkbox"/> 337 Phosphate, Total as Po4	<input checked="" type="checkbox"/> 013 Arsenic, As	
<input type="checkbox"/> 034 Chloride	<input type="checkbox"/> 089 Nitrate, NO3 (Reported as N+N)	<input checked="" type="checkbox"/> 1001 Barium, Ba	
<input type="checkbox"/> 036 Chlorine Free, Residual		<input checked="" type="checkbox"/> 1002 Beryllium, Be	
<input type="checkbox"/> 037 Chlorine, Total	Misc. Parameters	<input checked="" type="checkbox"/> 1003 Cadmium, Cd	
<input type="checkbox"/> 038 Chrome, Hexavalent; Cr+6		<input checked="" type="checkbox"/> 1005 Chrome, Cr	
<input type="checkbox"/> 049 Conductivity		<input checked="" type="checkbox"/> 055 Cyanide (Ascorbic Acid)	
<input checked="" type="checkbox"/> 062 Fluoride, Fl		<input type="checkbox"/> 138 TOC (Phosphoric Acid)	
<input type="checkbox"/> 870 Iron, Susp.		<input type="checkbox"/> Other	
<input type="checkbox"/> 880 Manganese, Susp.		<input type="checkbox"/> Other	
<input type="checkbox"/> 096 pH		<input type="checkbox"/> Other	
<input type="checkbox"/> 098 Phosphate, Ortho			<input checked="" type="checkbox"/> 105 Selenium, Se
<input type="checkbox"/> 338 Phosphate, Ortho as PO4			<input checked="" type="checkbox"/> 975 Thallium, Tl
<input type="checkbox"/> 143 Turbidity			<input type="checkbox"/> 066 Hardness, Hrd
<input type="checkbox"/> 78 LT2 Turbidity		<input type="checkbox"/> 868 Iron, Fe	
<input type="checkbox"/> 385 TDS/TFR		<input type="checkbox"/> 878 Manganese, Mn	
<input type="checkbox"/> 122 Sulfate, SO4		<input type="checkbox"/> 1004 Calcium, Ca	
<input type="checkbox"/> No Sample Fee		<input type="checkbox"/> 850 Copper, Cu	
<input type="checkbox"/> Other		<input type="checkbox"/> 1009 Magnesium, Mg	
<input type="checkbox"/> Other		<input type="checkbox"/> 1011 Molybdenum, Mo	
<input type="checkbox"/> Other		<input type="checkbox"/> 1015 Silver, Ag	
<input type="checkbox"/> Other		<input type="checkbox"/> 1016 Sodium, Na	
<input type="checkbox"/> Other		<input type="checkbox"/> 971 Lead, Pb	
<input type="checkbox"/> Other		<input type="checkbox"/> 1017 Zinc, Zn	
<input type="checkbox"/> Other		<input type="checkbox"/> 360 Hardness as caco3	
		<input type="checkbox"/> 336 Mg Hardness as caco3	
		<input type="checkbox"/> 9050 MASI Use Only	

Office Use Only: FO 1340  
150

N: \_\_\_\_\_ Total Containers: \_\_\_\_\_  
 S: \_\_\_\_\_  
 U: \_\_\_\_\_

Route: \_\_\_\_\_  
 Office/Lab: EW ML  
 COOLER: \_\_\_\_\_ Revised 04-22-20 DN





# Ground Water Quality Report

Division of Drinking and Ground Waters

Report Date: 12/18/2014

Wey  
4

## Ambient Ground Water Quality Monitoring Program

### Inorganic Ground Water Quality Time Series

*This Ground Water Quality Report summarizes the raw (untreated) inorganic ground water history for a single well (see box below). Time series graphs are a concise method of visualizing the geochemical variability within a water well over time.*

System Name:	Ashville Wellfield	Well Number:	4
Ambient Well ID:	39PIC08945	County:	Pickaway
Casing Length (ft):	70	Well Depth (ft):	141
Major Lithology:	Sand and Gravel	Geologic Setting:	Buried_Valley

In the graphics on the following pages, the sample dates are shown on the horizontal axes, and the parameter concentrations are indicated on the vertical axes. As an aid to the reader, Maximum Concentration Levels (MCLs in red text) and Secondary MCLs (SMCLs in blue text) have been noted on the graphs where applicable. Action Levels (ALEs, in red text) have also been indicated for lead and copper results. While MCLs, SMCLs and ALEs are convenient benchmarks for interpreting water quality data, please note that they apply strictly to compliance data from public water supply wells, and not to the raw, untreated ground water samples represented in this report.

The Ambient Ground Water Quality Monitoring Program (AGWQMP) was established by Ohio Environmental Protection Agency to characterize Ohio's ground water quality in order to enhance water resource planning and prioritize ground water protection activities. Managed by the Division of Drinking and Ground Waters, the AGWQMP database now contains some 215 active water supply wells across Ohio.

For additional information or answers to questions concerning the Ambient Ground Water Quality Monitoring Program, contact Christopher Kenah or Michael Slattery at (614)-644-2752 at Ohio EPA in Columbus, Oh., or email us at: gwq@epa.state.oh.us.

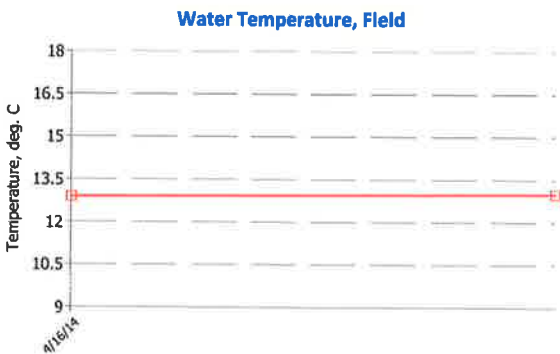
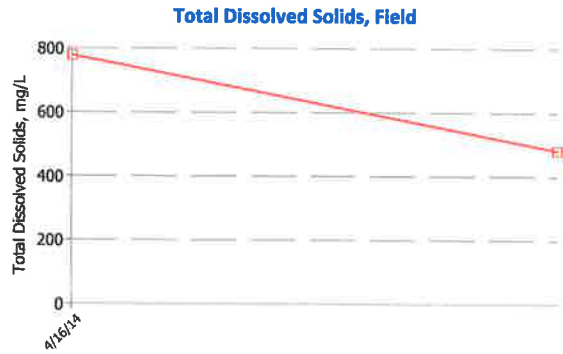
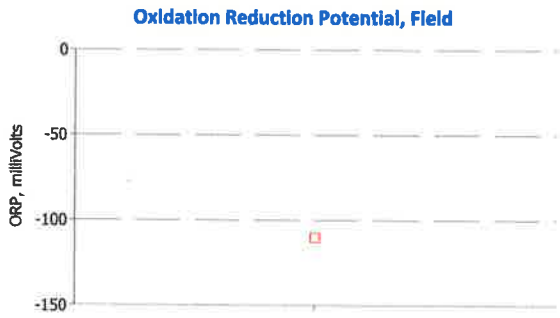
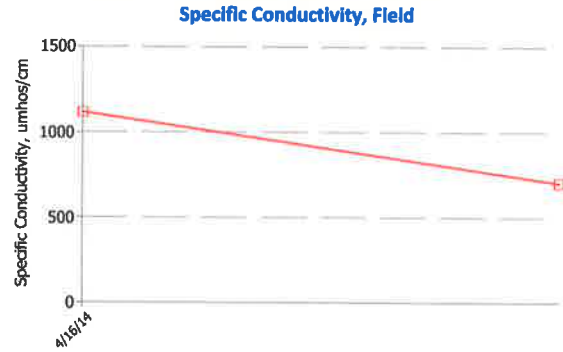
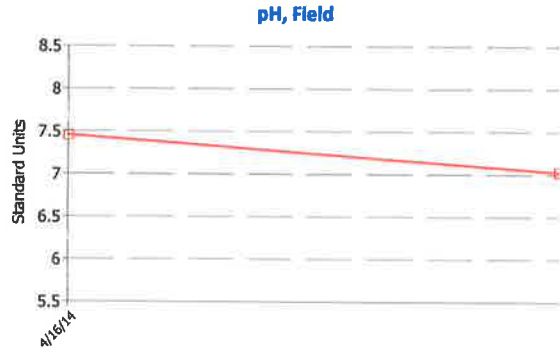
The Division of Drinking and Ground Waters (DDAGW) is providing information via this Web page as a public service. While Ohio EPA believes this information to be reliable and accurate, some data may be subject to human, mechanical, or analytical error. Because of the variability inherent in ground water data, caution must be taken in extrapolating point data beyond the collection area. The accuracy, completeness, suitability, and conclusions drawn from the information presented here are the sole responsibility of the user.

well 4

# Inorganic Time Series

Site Name	Ashville Wellfield	Well Number	4	Ambient Well ID	39PIC08945
District	CDO	County	Pickaway	Aquifer Name	EastColumbusBurVly
Well Depth (ft)	141	Casing Length (ft)	70	Major Lithology	Sand and Gravel

## FIELD DATA



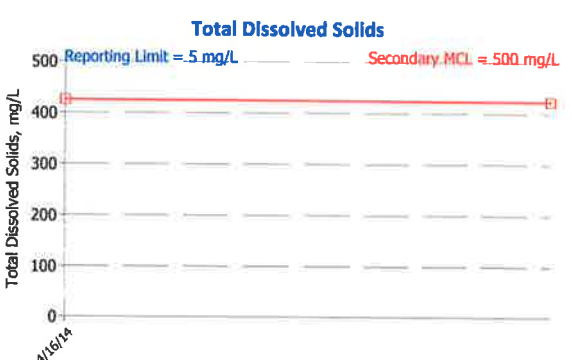
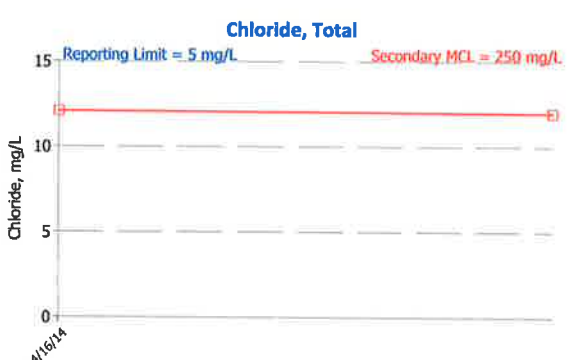
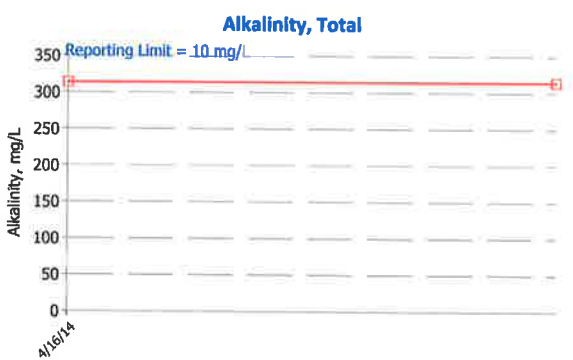
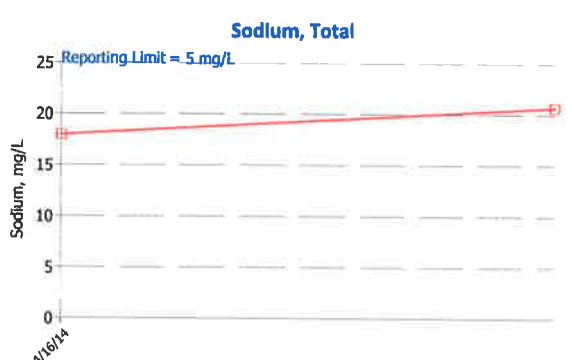
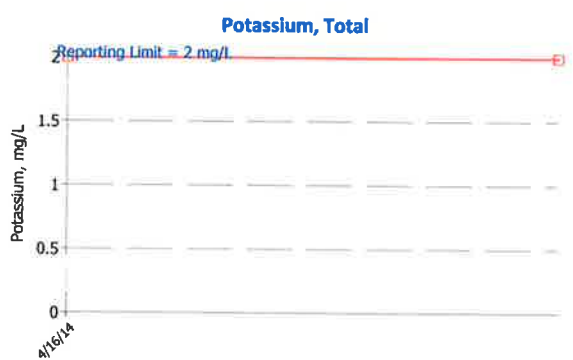
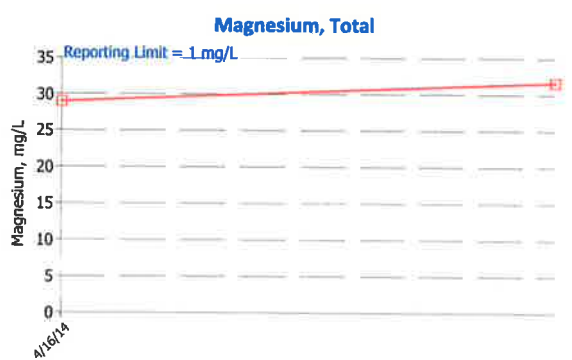
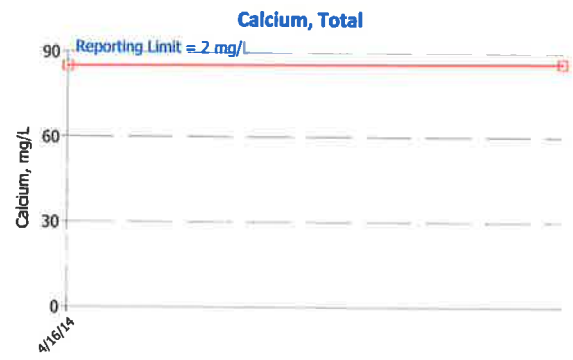
WEL 4

# MAJOR IONS, ALKALINITY, and TDS

Station Name **Ashville Wellfield**

Well Number **4**

Ambient Well ID **39PIC08945**



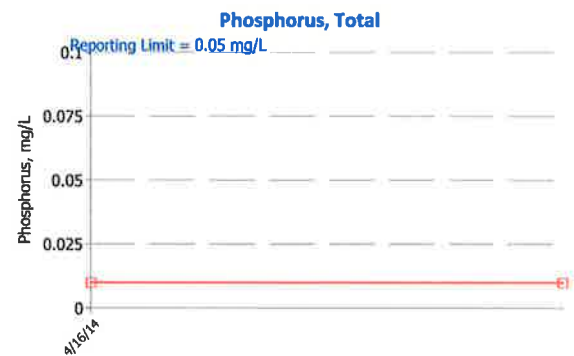
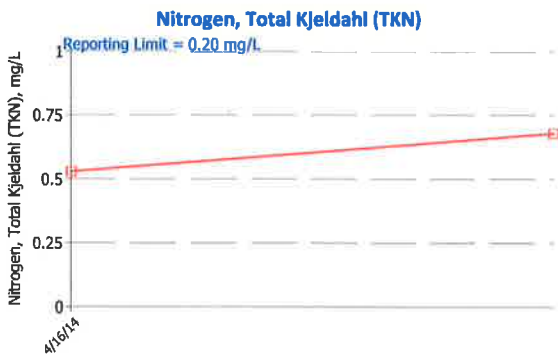
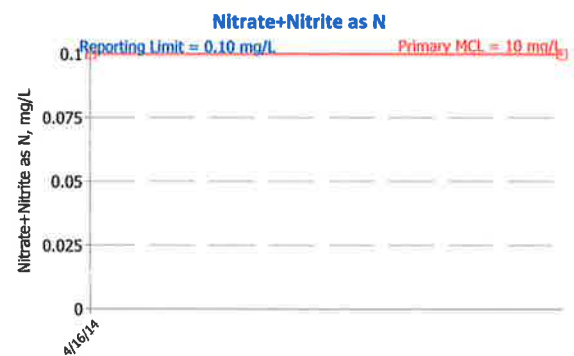
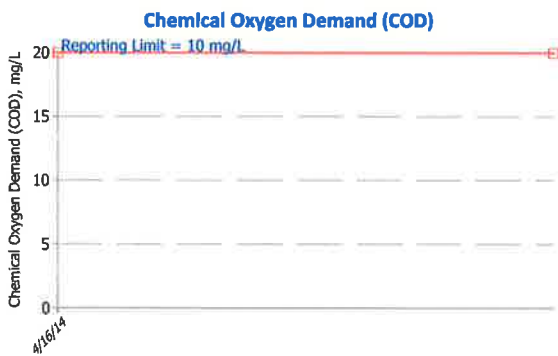
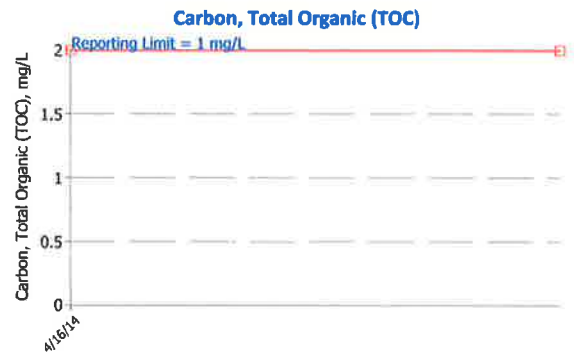
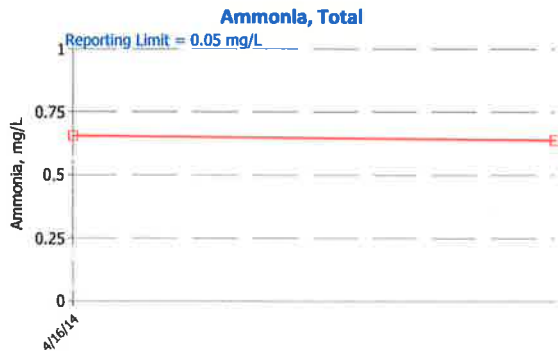
# NUTRIENTS

Well 4

Station Name **Ashville Wellfield**

Well Number **4**

Ambient Well ID **39PIC08945**



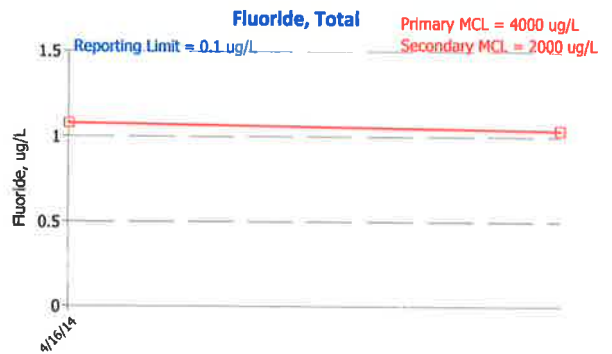
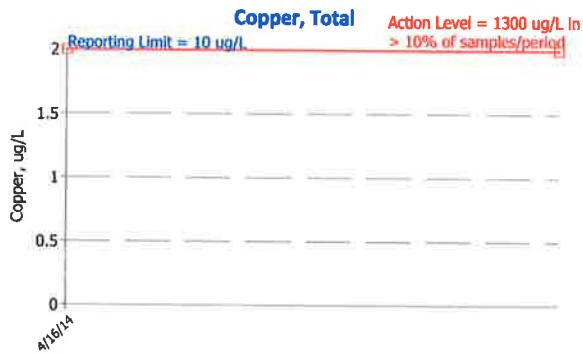
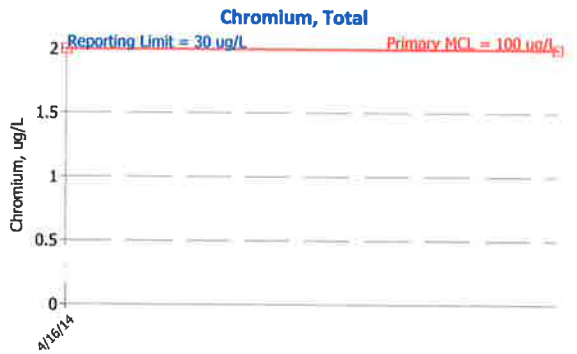
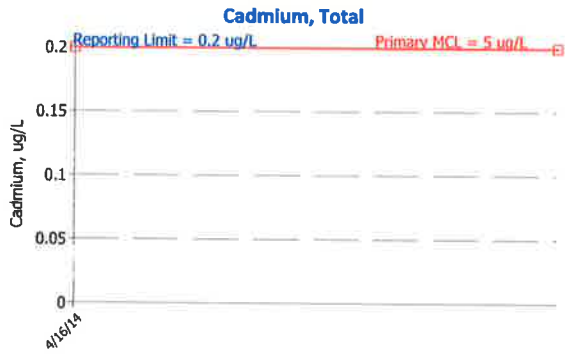
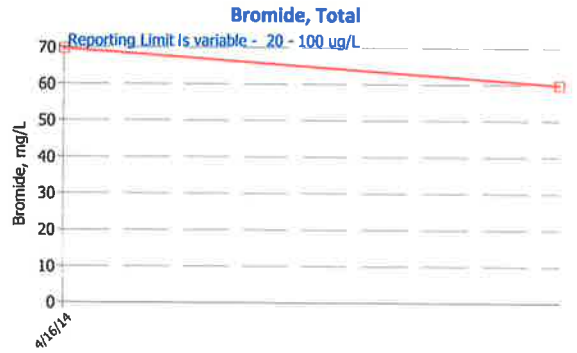
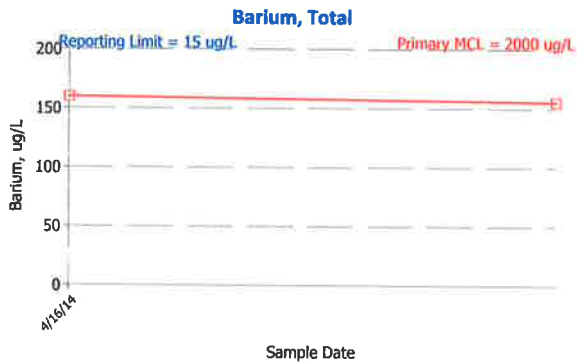
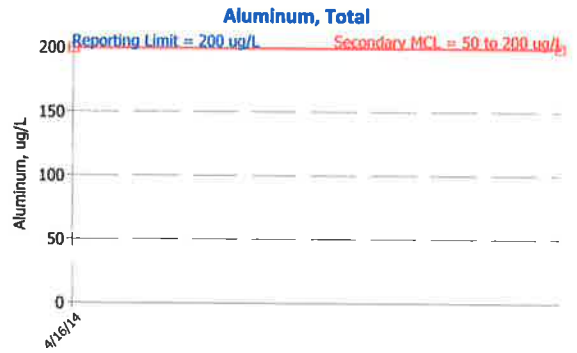
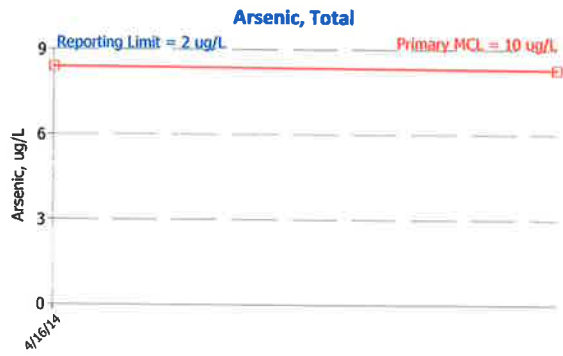
Well 4

# TRACE IONS

Station Name **Ashville Wellfield**

Well Number **4**

Ambient Well ID **39PIC08945**



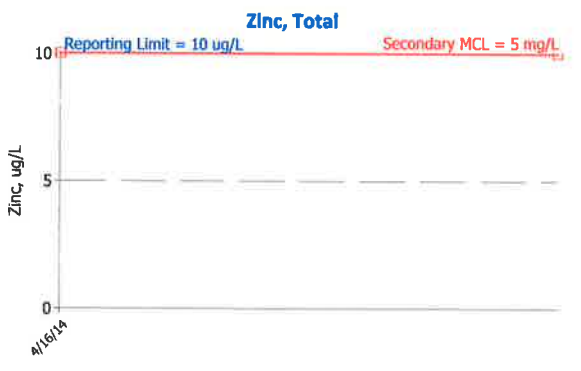
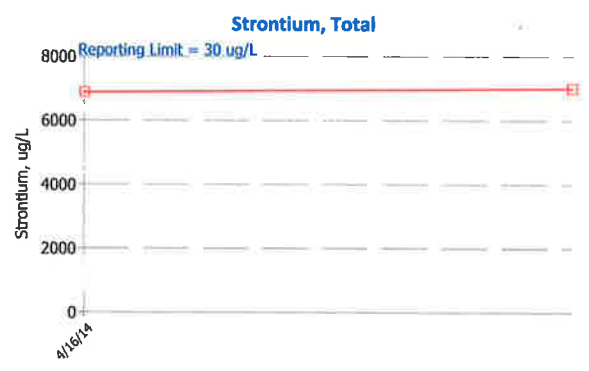
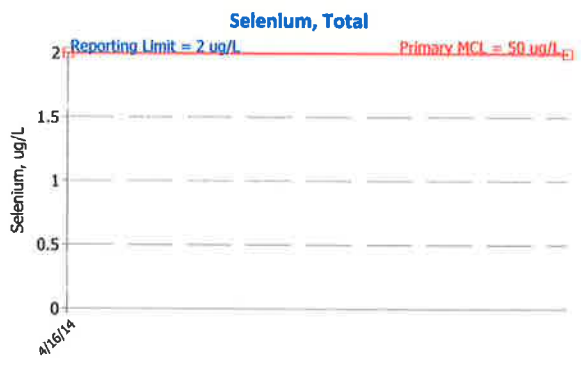
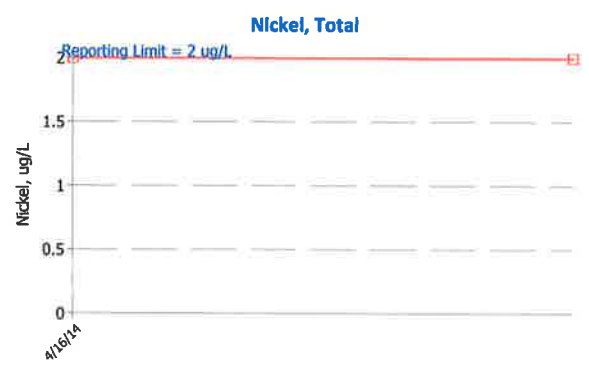
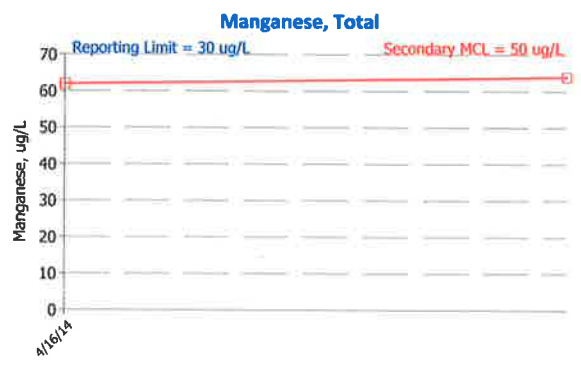
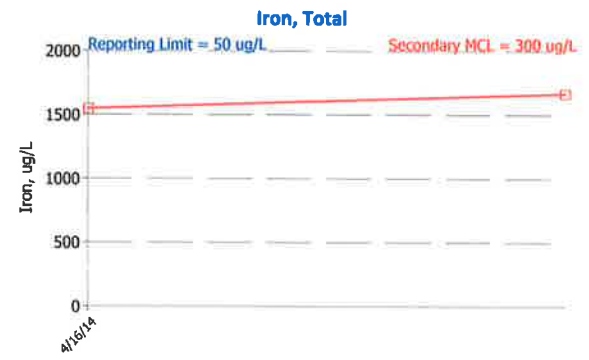
Well 4

# TRACE IONS, cont'd

Station Name **Ashville Wellfield**

Well Number **4**

Ambient Well ID **39PIC08945**





# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	67
Analyte Detected Count	-1

Station Name	Ashville Wellfield	Well Num	3	Ambient Well ID	39PIC08888	Samp. Status	ActiveStandard	PWS ID	OH6500012
Sample Num	22102702-0	Sample Date/Time	11/1/2022 12:45:00	Sampler	Poole, Sydney	Sample Type	Organic	QC Code	None
Chem. Sheet ID	16133	Matrix	Ground Water	Sheet Status	Approved	County	Pickaway	District	CDO
Well Depth (ft)	74	Casing Length (ft)	64	Lith. Open Section	Sand and Gravel	Major Lith.	Unconsolidated	Aquifer Name	EastColumbus

Compound	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
2-Butanone	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Acetone	ND	5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Acrylonitrile	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Benzene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Bromoform	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Butyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Butylbenzene, sec-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Butylbenzene, tert-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Carbon disulfide	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Carbon tetrachloride	ND	2 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Chlorobenzene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Chlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Chlorodibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Chloroethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Chloroform	2.8	0.5 ug/L				531.0 (624.1/8260)
Chlorotoluene, 2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Chlorotoluene, 4-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Cumene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Cymene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichlorobenzene, 1,2-	ND	0.5 ug/L	MCL = 600 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichlorobenzene, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichlorobenzene, 1,4-	ND	0.5 ug/L	MCL = 75 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichlorodifluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloroethane, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloroethane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichloroethene, trans-1,2-	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichloroethylene, 1,1-	ND	0.5 ug/L	MCL = 7 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichloroethylene, cis-1,2-	ND	0.5 ug/L	MCL = 70 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropane, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropane, 2,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropene, 1,3 cis-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Dichloropropene, 1,3 trans-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Ethyl benzene	ND	0.5 ug/L	MCL = 700 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Ethylene dibromide (EDB)	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Hexanone, 2-	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Iodomethane	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Methyl bromide	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Methyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Methyl tertiary butyl ether (MTBE)	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Methylene chloride	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Monobromobenzene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Propylbenzene, n-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Styrene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	67
Analyte Detected Count	-1

*Handwritten:* 3

Station Name	Ashville Wellfield	Well Num	3	Ambient Well ID	39PIC08888	Samp. Status	ActiveStandard	PWS ID	OH6500012
Sample Num	22102702-0	Sample Date/Time	11/1/2022 12:45:00	Sampler	Poole, Sydney	Sample Type	Organic	QC Code	None
Chem. Sheet ID	16133	Matrix	Ground Water	Sheet Status	Approved	County	Pickaway	District	CDO
Well Depth (ft)	74	Casing Length (ft)	64	Lith. Open Section	Sand and Gravel	Major Lith.	Unconsolidated	Aquifer Name	EastColumbus

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Tetrachloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Toluene	ND	0.5 ug/L	MCL = 1000 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Trichloroethane, 1,1,1-	ND	0.5 ug/L	MCL = 200 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Trichloroethane, 1,1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Trichloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Trihalomethanes (unspecified mix)	2.8	0.5 ug/L			ValueBetweenQL-Std	ValueB(624.1/8260
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Vinyl chloride	ND	0.5 ug/L	MCL = 2 ug/L		ValueBelowQCStandard	ValueB(624.1/8260
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	ValueB(624.1/8260
Xylenes, m- & p- Mix	ND	1 ug/L	MCL = 10,000 ug/L		ValueBelowQCStandard	ValueB(624.1/8260

### Field Comments

End of sample # 22102702-03

### Explanations

ND: Non Detect  
 QL: Quantition Limit  
 N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Sky Blue colored fields indicate a detect

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance





# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	67
Analyte Detected Count	-1

W43

Station Name	Ashville Wellfield	Well Num	3	Ambient Well ID	39PIC08888	Samp. Status	ActiveStandard	PWS ID	OH6500012
Sample Num	21050310-0	Sample Date/Time	5/19/2021 11:30:00	Sampler	Poole, Sydney	Sample Type	Organic	QC Code	None
Chem. Sheet ID	15470	Matrix	Ground Water	Sheet Status	Approved	County	Pickaway	District	CDO
Well Depth (ft)	74	Casing Length (ft)	64	Lith. Open Section	Sand and Gravel	Major Lith.	Unconsolidated	Aquifer Name	EastColumbus

VolatileOrganic	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
2-Butanone	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Acetone	ND	5 ug/L			ValueBetweenQL-Std QL	ValueBetweenQL-Std QL (624.1/8260)
Acrylonitrile	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Benzene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Bromoform	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Butyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Butylbenzene, sec-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Butylbenzene, tert-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Carbon disulfide	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Carbon tetrachloride	ND	2 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chlorobenzene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chlorodibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chloroethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chloroform	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chlorotoluene, 2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Chlorotoluene, 4-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Cumene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Cymene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichlorobenzene, 1,2-	ND	0.5 ug/L	MCL = 600 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichlorobenzene, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichlorobenzene, 1,4-	ND	0.5 ug/L	MCL = 75 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichlorodifluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloroethane, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloroethane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloroethene, trans-1,2-	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloroethylene, 1,1-	ND	0.5 ug/L	MCL = 7 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloroethylene, cis-1,2-	ND	0.5 ug/L	MCL = 70 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropane, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropane, 2,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropene, 1,3 cis-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Dichloropropene, 1,3 trans-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Ethyl benzene	ND	0.5 ug/L	MCL = 700 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Ethylene dibromide (EDB)	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Hexanone, 2-	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Iodomethane	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Methyl bromide	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Methyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Methyl tertiary butyl ether (MTBE)	ND	1 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Methylene chloride	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Monobromobenzene	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Propylbenzene, n-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Styrene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	ValueBelowQCStandard (624.1/8260)



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	67
Analyte Detected Count	-1

Station Name	Ashville Wellfield	Well Num	3	Ambient Well ID	39PIC08888	Samp. Status	ActiveStandard	PWS ID	OH6500012
Sample Num	21050310-0	Sample Date/Time	5/19/2021 11:30:00	Sampler	Poole, Sydney	Sample Type	Organic	QC Code	None
Chem. Sheet ID	15470	Matrix	Ground Water	Sheet Status	Approved	County	Pickaway	District	CDO
Well Depth (ft)	74	Casing Length (ft)	64	Lith. Open Section	Sand and Gravel	Major Lith.	Unconsolidated	Aquifer Name	EastColumbus

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Tetrachloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Toluene	ND	0.5 ug/L	MCL = 1000 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trichloroethane, 1,1,1-	ND	0.5 ug/L	MCL = 200 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Trichloroethane, 1,1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Trichloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trihalomethanes (unspecified mix)	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Vinyl chloride	ND	0.5 ug/L	MCL = 2 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	581.0 (624.1/8260)
Xylenes, m- & p- Mix	ND	1 ug/L	MCL = 10,000 ug/L		ValueBelowQCStandard	581.0 (624.1/8260)

### Field Comments

End of sample # 21050310-03

### Explanations

ND: Non Detect  
 QL: Quantition Limit  
 N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Sky Blue colored fields indicate a detect

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet 67  
Analyte Detected Count -1

well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **19052403-0** Sample Date/Time **6/11/2019 10:00:00** Sampler **Bondoc, Michael** Sample Type **Organic** QC Code **None**  
 Chem. Sheet ID **14797** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
2-Butanone	4.05	1 ug/L				530.2 (524.2/624/l)
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Acetone	ND	5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Acrylonitrile	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Benzene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Bromoform	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Butyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Butylbenzene, sec-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Butylbenzene, tert-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Carbon disulfide	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Carbon tetrachloride	ND	2 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Chlorobenzene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Chlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Chlorodibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Chloroethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Chloroform	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Chlorotoluene, 2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Chlorotoluene, 4-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Cumene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Cymene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichlorobenzene, 1,2-	ND	0.5 ug/L	MCL = 600 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichlorobenzene, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichlorobenzene, 1,4-	ND	0.5 ug/L	MCL = 75 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichlorodifluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloroethane, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloroethane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloroethene, trans-1,2-	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloroethylene, 1,1-	ND	0.5 ug/L	MCL = 7 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloroethylene, cis-1,2-	ND	0.5 ug/L	MCL = 70 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropane, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropane, 2,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropene, 1,3 cis-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Dichloropropene, 1,3 trans-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Ethyl benzene	ND	0.5 ug/L	MCL = 700 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Ethylene dibromide (EDB)	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Hexanone, 2-	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Iodomethane	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Methyl bromide	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Methyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Methyl tertiary butyl ether (MTBE)	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Methylene chloride	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Monobromobenzene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Propylbenzene, n-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Styrene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	530.2 (524.2/624/l)
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/l)



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	67
Analyte Detected Count	-1

Well 3

**Station Name** Ashville Wellfield    **Well Num** 3    **Ambient Well ID** 39PIC08888    **Samp. Status** ActiveStandard    **PWS ID** OH6500012  
**Sample Num** 19052403-0;    **Sample Date/Time** 6/11/2019 10:00:00    **Sampler** Bondoc, Michael    **Sample Type** Organic    **QC Code** None  
**Chem. Sheet ID** 14797    **Matrix** Ground Water    **Sheet Status** Approved    **County** Pickaway    **District** CDO    **Well Log #** 266009  
**Well Depth (ft)** 74    **Casing Length (ft)** 64    **Lith. Open Section** Sand and Gravel    **Major Lith.** Unconsolidated    **Aquifer Name** EastColumbus

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Tetrachloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Toluene	ND	0.5 ug/L	MCL = 1000 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trichloroethane, 1,1,1-	ND	0.5 ug/L	MCL = 200 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Trichloroethane, 1,1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Trichloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trihalomethanes (unspecified mix)	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Vinyl chloride	ND	0.5 ug/L	MCL = 2 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	V530eb(524.2/624/t
Xylenes, m- & p- Mix	ND	1 ug/L	MCL = 10,000 ug/L		ValueBelowQCStandard	V530eb(524.2/624/t

### Field Comments

End of sample # 19052403-02

### Explanations

ND: Non Detect  
 QL: Quantitation Limit  
 N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Sky Blue colored fields indicate a detect

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet	70
Analyte Detected Count	-1

well 3

Station Name	Ashville Wellfield	Well Num	3	Ambient Well ID	39PIC08888	Samp. Status	ActiveStandard	PWS ID	OH6500012
Sample Num	18102406-0	Sample Date/Time	10/25/2018 09:30:00	Sampler	Byerly, Sarah	Sample Type	Organic	QC Code	None
Chem. Sheet ID	14582	Matrix	Ground Water	Sheet Status	Approved	County	Pickaway	District	CDO
Well Depth (ft)	74	Casing Length (ft)	64	Lith. Open Section	Sand and Gravel	Major Lith.	Unconsolidated	Aquifer Name	EastColumbus

VolatileOrganic	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
2-Butanone	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
4-Methyl-2-pentanone	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
Acetone	ND	5 ug/L			ValueBelowQCStandard	524.2/624/l
Acrylonitrile	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
Benzene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	524.2/624/l
Bromoform	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Butyl benzene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Butylbenzene, sec-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Butylbenzene, tert-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Carbon disulfide	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
Carbon tetrachloride	ND	2 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	524.2/624/l
Chlorobenzene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	524.2/624/l
Chlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Chlorodibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Chloroethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Chloroform	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Chlorotoluene, 2-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Chlorotoluene, 4-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Cumene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Cymene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dibromomethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichlorobenzene, 1,2-	ND	0.5 ug/L	MCL = 600 ug/L		ValueBelowQCStandard	524.2/624/l
Dichlorobenzene, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichlorobenzene, 1,4-	ND	0.5 ug/L	MCL = 75 ug/L		ValueBelowQCStandard	524.2/624/l
Dichlorobromomethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichlorodifluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloroethane, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloroethane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	524.2/624/l
Dichloroethene, trans-1,2-	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	524.2/624/l
Dichloroethylene, 1,1-	ND	0.5 ug/L	MCL = 7 ug/L		ValueBelowQCStandard	524.2/624/l
Dichloroethylene, cis-1,2-	ND	0.5 ug/L	MCL = 70 ug/L		ValueBelowQCStandard	524.2/624/l
Dichloropropane, 1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	524.2/624/l
Dichloropropane, 1,3-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloropropane, 2,2-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloropropene, 1,1-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloropropene, 1,3 cis-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Dichloropropene, 1,3 trans-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Ethyl benzene	ND	0.5 ug/L	MCL = 700 ug/L		ValueBelowQCStandard	524.2/624/l
Ethylene dibromide (EDB)	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Hexachlorobutadiene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Hexanone, 2-	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
Iodomethane	ND	1 ug/L			ValueBelowQCStandard	524.2/624/l
Methyl bromide	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Methyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Methyl tertiary butyl ether (MTBE)	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Methylene chloride	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	524.2/624/l
Monobromobenzene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Napthalene	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Propylbenzene, n-	ND	0.5 ug/L			ValueBelowQCStandard	524.2/624/l
Styrene	ND	0.5 ug/L	MCL = 100 ug/L		ValueBelowQCStandard	524.2/624/l



# Ground Water Quality Results

Organic Compound results from raw, untreated Ambient well water

Analyte Count on Sheet 70  
Analyte Detected Count 1

well 2

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **18102406-0** Sample Date/Time **10/25/2018 09:30:00** Sampler **Byerly, Sarah** Sample Type **Organic** QC Code **None**  
 Chem. Sheet ID **14582** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## VolatileOrganic

	Result/Unit	Reporting Limit	Primary Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Tetrachloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Toluene	ND	0.5 ug/L	MCL = 1000 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trichlorobenzene, 1,2,4-	ND	0.5 ug/L	MCL = 70 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Trichloroethane, 1,1,1-	ND	0.5 ug/L	MCL = 200 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Trichloroethane, 1,1,2-	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Trichloroethylene	ND	0.5 ug/L	MCL = 5 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trihalomethanes (unspecified mix)	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Vinyl chloride	ND	0.5 ug/L	MCL = 2 ug/L		ValueBelowQCStandard	5302(524.2/624/l
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	5302(524.2/624/l
Xylenes, m- & p- Mix	ND	1 ug/L	MCL = 10,000 ug/L		ValueBelowQCStandard	5302(524.2/624/l

**Field Comments**

End of sample # 18102406-02

**Explanations**

ND: Non Detect  
QL: Quantition Limit  
N/A: Not Applicable

**Results color fields**

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Blue colored fields indicate a detect

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error -1.6%

Analyte Count on Sheet 31  
Analyte Detected Count -1

Well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC0888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **23052415-03** Sample Date/Time **6/22/2023 10:45:00** Sampler **Reed, Jason** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **16414** Matrix **Ground Water** Sheet Status **OutOfRangeResults** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-101	N/A				
pH	7.35	N/A				
Specific Conductance	851	N/A				
Temperature, water	14.2	N/A			ValueBelowQCStandard	Value8
Total Dissolved Solids (TDS), Field	620	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	Value8(200.7/6010)
Barium	164	15 ug/L				401.1(200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std	Value8(200.7/6010)
Calcium	105	2 mg/L				401.1(200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	Value8(200.8/6020)
Copper	2.13	2 ug/L				460.1(200.8/6020)
Hardness, Ca + Mg	417	10 mg/L				401.1(200.7/6010)
Iron	3160	50 ug/L	> SMCL (0.3 mg/L)			401.1(200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	Value8(200.8/6020)
Magnesium	37.6	1 mg/L				401.1(200.7/6010)
Manganese	93.1	10 ug/L	> SMCL (0.05 mg/L)			401.1(200.7/6010)
Nickel	ND	2 ug/L			ValueBelowQCStandard	Value8(200.8/6020)
Potassium	2.68	2 mg/L				401.1(200.7/6010)
Sodium	31.7	5 mg/L				401.1(200.7/6010)
Strontium	5260 *	150 ug/L		LT = 4000		401.1(200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	Value8(200.7/6010)

## Metals-ICPMS

Arsenic	7.09	2 ug/L	70.9% of MCL (0.01 mg/L)			460.1(200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	Value8(200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	Value8(200.8/6020)

## Nutrients-Demand

Ammonia	0.455	0.05 mg/L				250.4(350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std	Value8(SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	Value8(SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	Value8(USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.48	0.3 mg/L				250.6(351.2)
Phosphorus	0.03	0.02 mg/L				260.8(365.4)

## Unpreserved

Alkalinity, Total	358	5 mg/L				220.2(SM 2320B)
Bromide	58.7	20 ug/L				290.1(300.1)
Chloride	53.1	5 mg/L				230.2(SM 4500 Cl)
Fluoride	0.803	0.02 mg/L				290.1(300.1)
Sulfate	69.4	10 mg/L				270.3(SM 4500 SO)
Total Dissolved Solids	552	10 mg/L	> SMCL (500 mg/L)			130.2(USGS I-175C)

### Field Comments

End of sample # 23052415-03

### Explanations

ND: Non Detect  
 QL: Quantion Limit  
 N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

- Tan Exceeds Action Level (lead and copper only)
- Violet Exceeds Secondary MCL
- Brick Red Exceeds Primary MCL
- Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

▲ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error  
-4.3%

Analyte Count on Sheet 31  
Analyte Detected Count -1

Well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC0888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **22102702-0** Sample Date/Time **11/1/2022 12:45:00** Sampler **Poole, Sydney** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **16132** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	0	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L				
Barium	175	15 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Boron	ND	200 ug/L				401.1 (200.7/6010)
Calcium	108	2 mg/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Chromium	ND	2 ug/L				401.1 (200.7/6010)
Copper	2.77	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Hardness, Ca + Mg	424	10 mg/L				401.1 (200.7/6010)
Iron	4140	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Magnesium	37.7	1 mg/L				401.1 (200.7/6010)
Manganese	91.6	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Potassium	2.85	2 mg/L				401.1 (200.7/6010)
Sodium	40.6	5 mg/L				401.1 (200.7/6010)
Strontium	5350 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	460.1 (200.7/6010)

## Metals-ICPMS

Arsenic	7.07	2 ug/L	70.7% of MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.461	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std	250.4 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	250.4 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	250.4 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.646	0.3 mg/L				250.6 (351.2)
Phosphorus	ND	0.02 mg/L			ValueBelowQCStandard	250.4 (365.4)

## Unpreserved

Alkalinity, Total	366	5 mg/L				220.2 (SM 2320B)
Bromide	55.6	20 ug/L				290.1 (300.1)
Chloride	81	5 mg/L				230.2 (SM 4500 Cl)
Fluoride	0.775	0.02 mg/L				290.1 (300.1)
Sulfate	78.9	10 mg/L				270.3 (SM 4500 SO)
Total Dissolved Solids	578	10 mg/L	> SMCL (500 mg/L)			130.2 (USGS 1-175C)

### Field Comments

End of sample # 22102702-03

### Explanations

ND: Non Detect  
QL: Quantitation Limit  
N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

- Tan Exceeds Action Level (lead and copper only)
- Violet Exceeds Secondary MCL
- Brick Red Exceeds Primary MCL
- Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1, 10 = One and Ten Day Health Advisory Exceedance





# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error +2.8%

Analyte Count on Sheet 31  
Analyte Detected Count -1

W-3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC0888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **22030710-0** Sample Date/Time **4/27/2022 12:30:00** Sampler **Poole, Sydney** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **16053** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-52	N/A				
pH	7.37	N/A				
Specific Conductance	849	N/A				
Temperature, water	14.1	N/A			ValueBelowQCStandard	ValueB.
Total Dissolved Solids (TDS), Field	580	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Barium	157	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Calcium	109	2 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)
Copper	ND	2 ug/L			ValueBetweenQL-Std	401.1 (200.8/6020)
Hardness, Ca + Mg	427	10 mg/L				401.1 (200.7/6010)
Iron	2760	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)
Magnesium	37.4	1 mg/L				401.1 (200.7/6010)
Manganese	96.3	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	ND	2 ug/L			ValueBetweenQL-Std	401.1 (200.8/6020)
Potassium	2.87	2 mg/L				401.1 (200.7/6010)
Sodium	33.6	5 mg/L				401.1 (200.7/6010)
Strontium	4660 *	30 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)

## Metals-ICPMS

Arsenic	6.58	2 ug/L	65.8% of MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBetweenQL-Std	401.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.428	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std	338.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	338.3 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	338.3 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.426	0.3 mg/L				250.6 (351.2)
Phosphorus	ND	0.02 mg/L			ValueBelowQCStandard	338.3 (365.4)

## Unpreserved

Alkalinity, Total	338	5 mg/L				220.1 (310.1)
Bromide	62.2	20 ug/L				290.1 (300.1)
Chloride	48.9	5 mg/L				230.2 (325.1)
Fluoride	0.869	0.02 mg/L				290.1 (300.1)
Sulfate	65.6	10 mg/L				270.3 (375.2)
Total Dissolved Solids	508	10 mg/L	> SMCL (500 mg/L)			130.2 (USGS I-175C)

### Field Comments

End of sample # 22030710-02

### Explanations

ND: Non Detect  
QL: Quantitation Limit  
N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Tan Exceeds Action Level (lead and copper only)  
Violet Exceeds Secondary MCL  
Brick Red Exceeds Primary MCL  
Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error -2.8%

Analyte Count on Sheet 31  
Analyte Detected Count -1

W3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **21050310-0** Sample Date/Time **5/19/2021 11:30:00** Sampler **Poole, Sydney** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **15469** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-91	N/A				
pH	7.32	N/A				
Specific Conductance	679	N/A				
Temperature, water	16.6	N/A			ValueBetweenQL-Std ValueBet	
Total Dissolved Solids (TDS), Field	469	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBetweenQL-Std ValueBet	401.1 (200.7/6010)
Barium	131	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std ValueBet	401.1 (200.7/6010)
Calcium	87.3	2 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)
Copper	ND	2 ug/L			ValueBetweenQL-Std ValueBet	401.1 (200.8/6020)
Hardness, Ca + Mg	349	10 mg/L				401.1 (200.7/6010)
Iron	1930	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)
Magnesium	31.9	1 mg/L				401.1 (200.7/6010)
Manganese	60.8	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	ND	2 ug/L			ValueBetweenQL-Std ValueBet	401.1 (200.8/6020)
Potassium	ND	2 mg/L			ValueBetweenQL-Std ValueBet	401.1 (200.7/6010)
Sodium	20.3	5 mg/L				401.1 (200.7/6010)
Strontium	6440 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)

## Metals-ICPMS

Arsenic	11.9	2 ug/L	> MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	401.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.545	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std ValueBet	135.2 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	270.8 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	270.8 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.743	0.3 mg/L				250.6 (351.2)
Phosphorus	0.0231	0.01 mg/L				260.8 (365.4)

## Unpreserved

Alkalinity, Total	343	5 mg/L				220.1 (310.1)
Bromide	ND	100 ug/L			ValueBetweenQL-Std ValueBet	205.1 (300.1)
Chloride	15.7	5 mg/L				230.2 (325.1)
Fluoride	0.852	0.1 mg/L				290.1 (300.1)
Sulfate	51.5	10 mg/L				270.3 (375.2)
Total Dissolved Solids	424	10 mg/L				130.2 (USGS 1-175C)

### Field Comments

End of sample # 21050310-03

#### Explanations

ND: Non Detect  
 QL: Quantitation Limit  
 N/A: Not Applicable

#### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

- Tan Exceeds Action Level (lead and copper only)
- Violet Exceeds Secondary MCL
- Brick Red Exceeds Primary MCL
- Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error +3.3%

Analyte Count on Sheet 31  
Analyte Detected Count -1

Well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **19102209-0** Sample Date/Time **10/23/2019 11:15:00** Sampler **Byerly, Sarah** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **14975** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	+724	N/A				
pH	7.79	N/A				
Specific Conductance	744	N/A				
Temperature, water	13.1	N/A			ValueBetweenQL-Std ValueBetv	
Total Dissolved Solids (TDS), Field	745	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBetweenQL-Std ValueBetv	401.1 (200.7/6010)
Barium	174	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std ValueBetv	401.1 (200.7/6010)
Calcium	100	10 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard ValueBetv	460.1 (200.8/6020)
Copper	5.69	2 ug/L				460.1 (200.8/6020)
Hardness, Ca + Mg	399	10 mg/L				401.1 (200.7/6010)
Iron	3840	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBetweenQL-Std ValueBetv	460.1 (200.8/6020)
Magnesium	35.9	1 mg/L				401.1 (200.7/6010)
Manganese	94.2	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	3.3	2 ug/L				460.1 (200.8/6020)
Potassium	2.74	2 mg/L				401.1 (200.7/6010)
Sodium	34.7	5 mg/L				401.1 (200.7/6010)
Strontium	5320 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard ValueBetv	401.1 (200.7/6010)

## Metals-ICPMS

Arsenic	6.41	2 ug/L	64.1% of MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBetweenQL-Std ValueBetv	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBetweenQL-Std ValueBetv	460.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.46	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std ValueBetv	335.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard ValueBetv	330.8 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard ValueBetv	330.8 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.524	0.3 mg/L				250.6 (351.2)
Phosphorus	0.0123	0.01 mg/L				260.8 (365.4)

## Unpreserved

Alkalinity, Total	320	5 mg/L				220.1 (310.1)
Bromide	ND	100 ug/L			ValueBetweenQL-Std ValueBetv	220.1 (300.1)
Chloride	39.6	5 mg/L				230.2 (325.1)
Fluoride	0.779	0.2 mg/L				280.1 (SM 4500-FC)
Sulfate	67	10 mg/L				270.3 (375.2)
Total Dissolved Solids	506	10 mg/L	> SMCL (500 mg/L)			130.2 (USGS I-175C)

### Field Comments

End of sample # 19102209-03

#### Explanations

ND: Non Detect  
QL: Quantition Limit  
N/A: Not Applicable

#### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Tan Exceeds Action Level (lead and copper only)  
Violet Exceeds Secondary MCL  
Brick Red Exceeds Primary MCL  
Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error -2.3%

Analyte Count on Sheet 31  
Analyte Detected Count -1

well 3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **19052403-0** Sample Date/Time **6/11/2019 10:00:00** Sampler **Bondoc, Michael** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **14796** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

## FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-39	N/A				
pH	7.05	N/A				
Specific Conductance	880	N/A				
Temperature, water	14.1	N/A			ValueBelowQCStandard	ValueB
Total Dissolved Solids (TDS), Field	612	N/A				

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Barium	156	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Calcium	101	10 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Copper	2.64	2 ug/L				460.1 (200.8/6020)
Hardness, Ca + Mg	397	10 mg/L				401.1 (200.7/6010)
Iron	2540	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Magnesium	35.2	1 mg/L				401.1 (200.7/6010)
Manganese	97.1	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	2.43	2 ug/L				460.1 (200.8/6020)
Potassium	2.64	2 mg/L				401.1 (200.7/6010)
Sodium	38.3	5 mg/L				401.1 (200.7/6010)
Strontium	4870 *	30 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	16.1	10 ug/L				401.1 (200.7/6010)

## Metals-ICPMS

Arsenic	6.6	2 ug/L	66.0% of MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)

## Nutrients-Demand

Ammonia	0.471	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	2.04	2 mg/L				335.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	370.4 (SM 5220D)
Nitrate+Nitrite	0.201	0.1 mg/L				250.8 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.576	0.3 mg/L				250.6 (351.2)
Phosphorus	0.0107	0.01 mg/L				260.8 (365.4)

## Unpreserved

Alkalinity, Total	351	5 mg/L				220.1 (310.1)
Bromide	64.8	20 ug/L				290.1 (300.1)
Chloride	57.7	5 mg/L				230.2 (325.1)
Fluoride	0.747	0.2 mg/L				280.1 (SM 4500-FC)
Sulfate	71	10 mg/L				270.3 (375.2)
Total Dissolved Solids	532	10 mg/L	> SMCL (500 mg/L)			130.2 (USGS I-175C)

### Field Comments

End of sample # 19052403-02

### Explanations

ND: Non Detect  
QL: Quantitation Limit  
N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Tan Exceeds Action Level (lead and copper only)  
Violet Exceeds Secondary MCL  
Brick Red Exceeds Primary MCL  
Yellow CBE exceeds +/- 5%

\* LT = Life Time Health Advisory Exceedance

^ 1\_10 = One and Ten Day Health Advisory Exceedance



# Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error -3.9%

Analyte Count on Sheet 31  
Analyte Detected Count -1

3

Station Name **Ashville Wellfield** Well Num **3** Ambient Well ID **39PIC08888** Samp. Status **ActiveStandard** PWS ID **OH6500012**  
 Sample Num **18102406-0** Sample Date/Time **10/25/2018 09:30:00** Sampler **Byerly, Sarah** Sample Type **Inorganic** QC Code **None**  
 Chem. Sheet ID **14581** Matrix **Ground Water** Sheet Status **Approved** County **Pickaway** District **CDO** Well Log # **266009**  
 Well Depth (ft) **74** Casing Length (ft) **64** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **EastColumbus**

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	+723	N/A				
pH	7.03	N/A				
Specific Conductance	1030	N/A				
Temperature, water	13.7	N/A			ValueBelowQCStandard	ValueB

## Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	Method(200.7/6010)
Barium	163	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std ValueB	Method(200.7/6010)
Calcium	116	10 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	Method(200.8/6020)
Copper	5.35	2 ug/L				460.1 (200.8/6020)
Hardness, Ca + Mg	455	10 mg/L				401.1 (200.7/6010)
Iron	3380	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	4.96	2 ug/L				460.1 (200.8/6020)
Magnesium	40.4	1 mg/L				401.1 (200.7/6010)
Manganese	108	10 ug/L	> SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	2.91	2 ug/L				460.1 (200.8/6020)
Potassium	2.9	2 mg/L				401.1 (200.7/6010)
Sodium	40.1	5 mg/L				401.1 (200.7/6010)
Strontium	5850 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	Method(200.7/6010)

## Metals-ICPMS

Arsenic	6.05	2 ug/L	60.5% of MCL (0.01 mg/L)			460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	Method(200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	Method(200.8/6020)

## Nutrients-Demand

Ammonia	0.494	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBelowQCStandard	Method(SM 5310C)
Chemical Oxygen Demand (COD)	39.7	20 mg/L				320.4 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	Method(USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	0.642	0.3 mg/L				250.6 (351.2)
Phosphorus	ND	0.02 mg/L			ValueBetweenQL-Std ValueB	Method(250.8/365.4)

## Unpreserved

Alkalinity, Total	388	5 mg/L				220.1 (310.1)
Bromide	68.5	20 ug/L				290.1 (300.1)
Chloride	87.5	5 mg/L				230.2 (325.1)
Fluoride	0.786	0.2 mg/L				280.1 (SM 4500-FC)
Sulfate	76.4	10 mg/L				270.3 (375.2)
Total Dissolved Solids	658	10 mg/L	> SMCL (500 mg/L)			130.2 (SM 2540C)

### Field Comments

End of sample # 18102406-02

### Explanations

ND: Non Detect  
QL: Quantition Limit  
N/A: Not Applicable

### Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Tan Exceeds Action Level (lead and copper only)  
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\* LT = Life Time Health Advisory Exceedance

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## **APPENDIX E**

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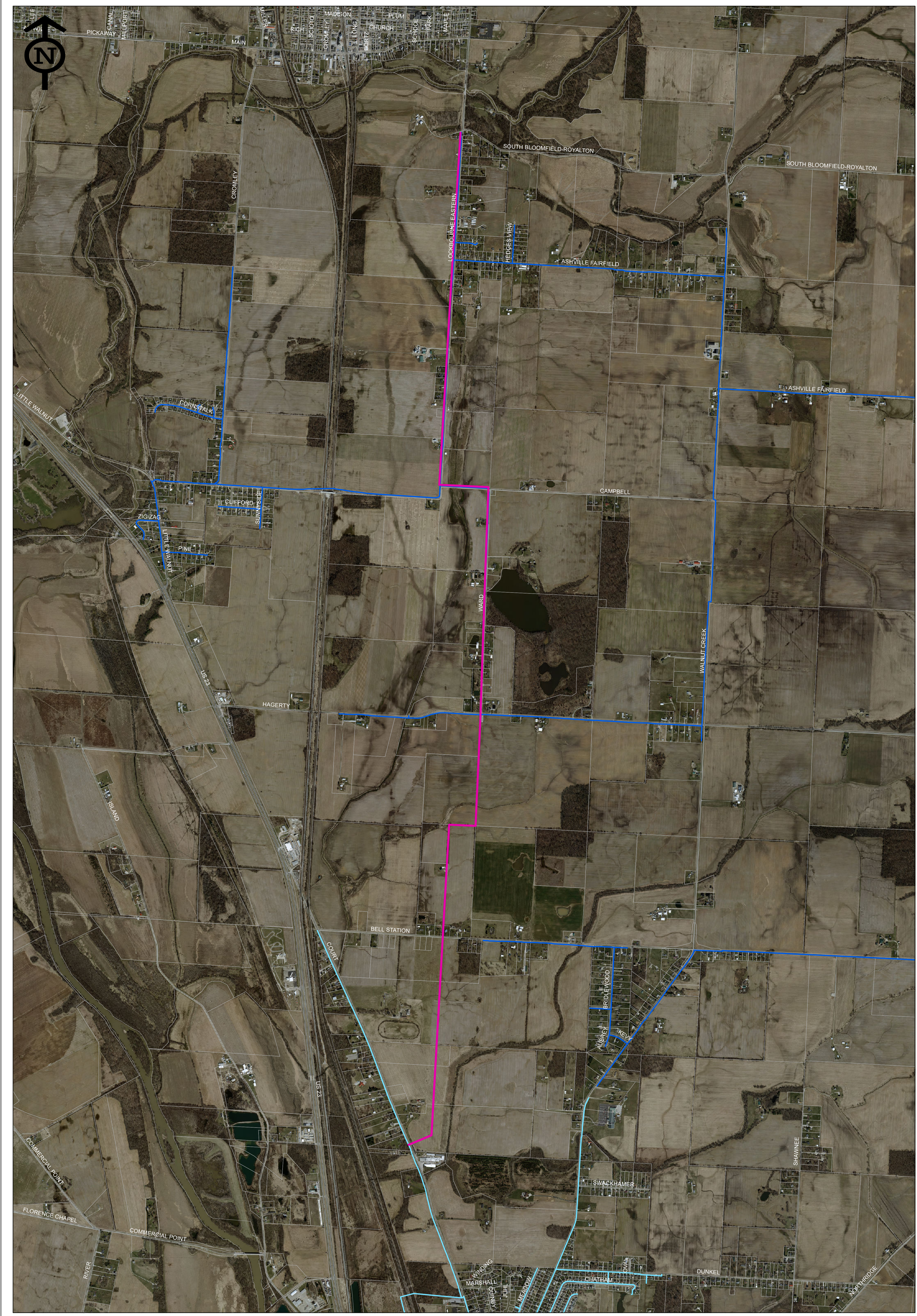
**WATER REGIONALIZATION DISCUSSION**

Water Regionalization Discussion  
Minutes  
1-29-2024  
Prepared by LA McFarland

1. Introductions and Attendance – See attached attendance sheet.
2. Needs and Goals of Each System
  - a. Ashville Needs and Goals
    - i. Mr. Christman stated that water capacity is needed very soon.
    - ii. Emergency connection with Earnhart Hill under design (200,000 gpd).
    - iii. Mr. Tebbe stated that a new Water Tower and new pressure zone within Ashville to be established north of TVEMS. Static water level approximately 30-ft higher than existing system.
    - iv. Current 1.3 MGD WTP design is underway with new WTP plant to be on-line in 2027. Cost of new plant and tower estimated at \$14 million.
    - v. 1,500 homes planned or are in the process of being built.
    - vi. The planned water system improvements are not designed for the west side of the village (west of the railways).
  - b. City of Circleville
    - i. Mr. Stanley stated the city does not currently soften and would like to upgrade their existing 4MGD plant with membrane treatment. Cost of plant estimated at \$20 million.
    - ii. Mr. Frost would like to Increase water pressure north and east side of town.
  - c. Earnhart
    - i. Mr. McFarland reported steady growth within the district and would like to support development.
    - ii. Be a partner in regionalization.
  - d. P3
    - i. Mr. Colburn supports regionalization and development along the US 23 corridor and JEDD areas.
    - ii. Support both residential and industrial/commercial development.
    - iii. Will assist in obtaining funds for regionalization projects.
3. Existing Regionalization efforts discussed.
  - a. City and Earnhart emergency connection is valued by both systems.
  - b. City and Earnhart share territories at OCU and Eastwood subdivisions. City provides sanitary sewer to annexed areas and Earnhart provides water.
  - c. Ashville and Earnhart connection under design and will provide supplemental water to Ashville. The current capacity available is estimated at (200,000 gpd).
  - d. Ashville and City of Columbus are discussing a connection option.
4. McFarland presented a hypothetical regionalization plan including financial estimates that would include all utilities under the following scenario:
  - a. Circleville immediately upgrades to a 4MD softening plant.

- b. Earnhart constructs a trunk water main and booster station which would connect with Earnhart Zone 6 and Ashville water system. Earnhart would buy water from Circleville, transmit this water through its piping system to Ashville.
  - c. Cost of Ashville contribution to water trunk line and City WTP upgrade is less than stand along water treatment plant improvements.
- 5. Next Steps
  - a. McFarland to send financial spreadsheet to attendees (attached with these minutes).
  - b. Group to reconvene within a month after internal discussions. McFarland will set up the next meeting.
- 6. Sanitary sewer was discussed and is an important consideration for development. Colburn would like future meetings on developing a sanitary sewer plan for northern Pickaway County. P3 is willing to assist in obtaining funding for studies.
- 7. Water loss was discussed. Ashville reported selling around 300,000 gallons of water but producing about 570,00 gallons of water per day. The City system is selling about 960,000 gallons of water per day and producing an average of 1,600,000 gallons per day. Earnhart sells about 810,000 gallons per day, with an average daily pumping volume of 900,000 gallons per day, which includes process related losses.





- PROPOSED WL
- EHRSD WL
- CIRCLEVILLE WL

REGIONALIZATION PLAN FOR - ASHVILLE / CIRCLEVILLE / EARNHART HILL

TOTAL DISTANCE OF PROPOSED WL - 26,866'

EARNHART HILL REGIONAL  
WATER & SEWER DISTRICT

SCALE : 1" = 1000'  
DATE : 01/25/2024  
DRAWN BY : C BENNETT



VILLAGE OF ASHVILLE  
UTILITIES COMMITTEE MEETING  
MARCH 4, 2024

Matt Scholl called the meeting to order at 5:31 PM. Answering roll call were Chad Noggle and Colton Henson.

Colton Henson moved, seconded by Chad Noggle, to approve the January 30, 2024 minutes as presented. All votes were yay.

**OLD BUSINESS**

- Franklin Christman reported that he had submitted applications to DEFA for the new water treatment plant, north water tower, and the Earnhart Hill Regional Water and Sewer District (EHRWSD) connection.
- Chris Tebbe reported that EHRWSD wants to put the meter at the south end of the property. Tebbe asked Franklin Christman what the status of the easement was and Christman said the details are still being worked out.

**NEW BUSINESS**

- Jake Meinerding from Jones & Henry was present to discuss regionalization. Meinerding said that the Village of Ashville, City of Circleville, EHRWSD, Pickaway County Progress Partnership (P3), Tebbe Civil Engineering, and Jones & Henry Engineers met to discuss a regionalization approach for drinking water improvements. EHRWSD proposed they provide Ashville with drinking water via a 12-inch main and booster pump station near the north end of Circleville with the City of Circleville providing the supply from their water treatment plant and distribution system. Meinerding presented a cost analysis that compared the cost for Ashville to build their own plant and the cost of regionalization with Circleville with a total of approximately \$10M. Connecting with Circleville would be approximately \$850K less. Christman distributed a comparison of the water rates for the City of Circleville and Ashville's with Circleville's rates being more than triple the amount of Ashville's. Jim Welsh said if the village connects to EHRWSD they have no say in the rates being charged and have no control over what's being supplied to the residents. Welsh said the connection would be risky and was in favor of building a new plant. Council said they didn't like being at the mercy of another plant controlling water supply. They expressed concern that if for any reason the Circleville plant had issues with water distribution, Ashville residents could be compromised. Council also said they weren't comfortable with the residents paying a rate significantly higher than the Ashville's. They acknowledged that the rates will increase to cover the debt repayment for the construction of the new plant, but it won't be as high as Circleville's rates. Council agreed that there are too many unknowns and with the cost to build a plant being so close, building the plant seemed like the better option. Chris Tebbe agreed that the Circleville connection wasn't the best option. Colton Henson

moved, seconded by Chad Noggle, to move forward with building a water treatment plant. All votes were yay.

- Franklin Christman asked if Council was ready to move forward with the Statement of Qualifications (SOQ) for the WWTP expansion. Chris Tebbe said it's imperative that the village move quickly on the SOQ because the village needs the expansion to accommodate development. Matt Scholl made the recommendation to have council move on the SOQ.
- Steve Welsh reported that the property owner of 344 Long Street contacted him and asked if the village would cover the expense of Roto-Rooter pumping out their basement after a sewer line backed up. Adam Kehoe said that at sometime the sewer line was replaced and whoever did the work cut a hole in the lateral and shoved their sewer line in. Chad Noggle asked if the backup was caused by anything the village had done and Kehoe said no. Noggle said it was the responsibility of the homeowner to have the line inspected when the work was done and he isn't comfortable paying for something that we didn't cause. After discussion council agreed to reject the request to pay the Roto-Rooter bill. Matt Scholl instructed Franklin Christman to send a letter to the resident to notify them of the decision.

Colton Henson moved, seconded by Chad Noggle, to adjourn. All votes were yay and the meeting adjourned at 6:14 PM.

ACCEPTED AND ATTESTED

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Matt Scholl, Chairman

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April Grube, Clerk

Successful partnerships start with Fluid thinking®

Submitted by Jones & Henry Engineers, Ltd.  
4357 Ferguson Drive, Suite 220, Cincinnati, OH 45245



Jones & Henry  
Engineers