



ANDOVER 2015 Report

Ambient Ground Water Quality Monitoring Program

Ground Water Quality Results

Charge Balance Error -5.1%

Analyte Count on Sheet 30
Analyte Detected Count 14

Station Name **Andover Village PWS** Well Num **7** Ambient Well ID **39ATB00401** Samp. Status **Active18Cycle** PWS ID **OH0400012**
 Sample Num **173702** Sample Date/Time **3/18/2015 13:30:00** Sampler **Muller, Albert** Sample Type **Inorganic** Dupe/QC Code **None**
 Chem. Sheet ID **12703** Matrix **Ground Water** Sheet Status **Approved** County **Ashtabula** District **NEDO** Well Log # **668440**
 Well Depth (ft) **73** Casing Length (ft) **50** Lith. Open Section **Sandstone** Major Lith. **Sandstone** Aquifer Name **Pymatuning**

FieldParameter	Result/Unit	Reporting Limit	Comment	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)					
	+22 mV	N/A			
pH					
	7.28 SU	N/A			
Specific Conductance					
	486 umhos/cm	N/A		ValueBetweenQL-Std	
Temperature, water					
	9.9 deg C	N/A		ValueBetweenQL-Std	
Total Dissolved Solids (TDS), Field					
	336 mg/L	N/A			
Metals-ICP					
Aluminum	ND	200 ug/L		ValueBetweenQL-Std	USEPA 200.7
Barium	76 ug/L	15 ug/L			USEPA 200.7
Calcium	75.9 mg/L	2 mg/L			USEPA 200.7
Chromium	ND	2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Copper	ND	2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Hardness, Ca + Mg	262 mg/L	10 mg/L			USEPA 200.7
Iron	547 ug/L	50 ug/L	> SMCL (0.3 mg/L)		USEPA 200.7
Lead	ND	2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Magnesium	17.5 mg/L	1 mg/L			USEPA 200.7
Manganese	202 ug/L	10 ug/L	> SMCL (0.05 mg/L)		USEPA 200.7
Nickel	ND	2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Potassium	ND	2 mg/L		ValueBetweenQL-Std	USEPA 200.7
Sodium	ND	5 mg/L		ValueBetweenQL-Std	USEPA 200.7
Strontium	107 ug/L	30 ug/L			USEPA 200.7
Zinc	ND	10 ug/L		ValueBetweenQL-Std	USEPA 200.7
Metals-ICPMS					
Arsenic	6.7 ug/L	2 ug/L	67.0% of MCL (0.01 mg/L)		USEPA 200.8
Cadmium	ND	0.2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Selenium	ND	2 ug/L		ValueBetweenQL-Std	USEPA 200.8
Nutrients-Demand					
Ammonia	ND	0.05 mg/L		ValueBetweenQL-Std	USEPA 350.1
Carbon, Total Organic (TOC)	ND	2 mg/L		ValueBetweenQL-Std	SM 5310B
Chemical Oxygen Demand (COD)	ND	20 mg/L		ValueBetweenQL-Std	SM 5220D
Nitrate+Nitrite as N	ND	0.1 mg/L		ValueBetweenQL-Std	USEPA 350.1
Nitrogen, Total Kjeldahl (TKN)	ND	0.2 mg/L		ValueBetweenQL-Std	USEPA 351.2
Phosphorus	ND	0.01 mg/L		ValueBetweenQL-Std	USEPA 365.4
Unpreserved					
Alkalinity, Total	223 mg/L	5 mg/L			USEPA 310.1
Bromide	39.8 ug/L	20 ug/L			USEPA 300.1
Chloride	15.4 mg/L	5 mg/L			USEPA 325.1
Fluoride	0.22 mg/L	0.2 mg/L			SM 4500-FC
Sulfate	57.4 mg/L	10 mg/L			USEPA 375.2
Total Dissolved Solids	310 mg/L	10 mg/L			SM 2540C

Field Comments

End of sample # 173702

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%



Ambient Ground Water Quality Monitoring Program
Ground Water Quality Results

Charge Balance Error
 +3.1%

Analyte Count on Sheet	30
Analyte Detected Count	14

Station Name **Andover WTP** Well Num **7** Ambient Well ID **39ATB00401** Samp. Status **ActiveRotational** PWS ID **OH0400012**
 Sample Num **160099** Sample Date/Time **10/31/2013 11:00:00** Sampler **Rizzo, Jeffrey** Sample Type **Inorganic** Dupe/QC Code **None**
 Chem. Sheet ID **12161** Matrix **Ground Water** Sheet Status **Approved** County **Ashtabula** District **NEDO** Well Log # **668440**
 Well Depth (ft) **73** Casing Length (ft) **50** Lith. Open Section **Sandstone** Major Lith. **Sandstone** Aquifer Name **Pymatuning**

FieldParameter	Result/Unit	Reporting Limit	Comment	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	+188 mV	N/A			
pH	7.11 SU	N/A			
Specific conductance	480 umhos/cm	N/A			
Temperature, water	11.3 deg C	N/A			
Total Dissolved Solids (TDS), Field	340 mg/L	N/A			

Metals-ICP

Aluminum	ND	200 ug/L			USEPA 200.7
Barium	80 ug/L	15 ug/L			USEPA 200.7
Calcium	77 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	266 mg/L	10 mg/L			USEPA 200.7
Iron	573 ug/L	50 ug/L	> SMCL (0.3 mg/L)		USEPA 200.7
Lead	ND	2 ug/L			USEPA 200.8
Magnesium	18 mg/L	1 mg/L			USEPA 200.7
Manganese	212 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	5 mg/L	5 mg/L			USEPA 200.7
Strontium	109 ug/L	30 ug/L			USEPA 200.7
Zinc	ND	10 ug/L			USEPA 200.7

Metals-ICPMS

Arsenic	6.5 ug/L	2 ug/L	65.0% 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

Nutrients-Demand

Ammonia	ND	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)	ND	0.2 mg/L			USEPA 351.2
Phosphorus	ND	0.01 mg/L			USEPA 365.4

Unpreserved

Alkalinity, Total	192 mg/L	5 mg/L			USEPA 310.1
Bromide	30.7 ug/L	20 ug/L			USEPA 300.1
Chloride	13.3 mg/L	5 mg/L			USEPA 325.1
Fluoride	ND	0.2 mg/L			SM 4500-FC
Sulfate	50.3 mg/L	10 mg/L			USEPA 375.2
Total Dissolved Solids	310 mg/L	10 mg/L			SM 2540C

Field Comments

End of sample # 160099

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%

Chromium

<0.010

mg/L

0.01

12/21/15

CC

Client: ANDOVER VILLAGE

Final Report

Report Date: 12/22/2015

Report Number: 38704-0

Lab ID: 15121336

Date Sampled: 12/10/2015 2:06:00PM

Sample Type: Wastewater

Date Received: 12/11/2015

Your Sample ID: FINAL EFF

Collection: COMP

Method	Analyte	Result	Units	MDL/PQL	Analysis Date	Analyst
EPA_200.7	Copper	<0.010 <i>OK</i>	mg/L	0.01	12/21/15	CC
	Lead	<0.010 <i>10.06/L</i>	mg/L	0.01	12/21/15	CC
	Nickel	<0.010	mg/L	0.01	12/21/15	CC
	Zinc	0.020	mg/L	0.01	12/21/15	CC

Lab ID: 15121337 e

Date Sampled: 12/11/2015 11:00:00AM

Sample Type: Wastewater

Date Received: 12/11/2015

Your Sample ID: FINAL EFF

Collection: COMP

Method	Analyte	Result	Units	MDL/PQL	Analysis Date	Analyst
EPA_1664A	Oil & Grease	5.00	mg/L	1	12/15/15	RF

QA/QC Manager

Results relate only to items tested. Samples tested as received. This report may not be reproduced except in full with the approval of Ream and Haager Laboratory, Inc.



DRINKING WATER LEAD AND COPPER MONITORING REPORT

PWS Name: Andover Village	PWSID: OH0400012	County: Ashtabula	Population: 1,145
PWS Address: PO Box 1267 134 Maple Ave. Andover, OH 44003	Phone: 440-293-4747	Sampling begin date: 8/5/13	Sampling end date: 8/6/13
Monitoring Schedule: <input type="checkbox"/> "6 month" or "optional" <input checked="" type="checkbox"/> "annual" or "triennial"			

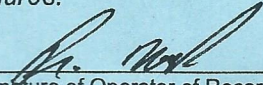
Return this completed form to Ohio EPA, DDAGW-Central Office, PO Box 1049, Columbus, OH 43216-1049 or Fax to (614) 644-2909 (receipt being no later than 10 days after the end of the monitoring period). Retain a copy of this report in your files with supporting documentation for a minimum of 12 years.

Lead and Copper Tap Monitoring (First-Draw Samples)

a.	Number of sampling sites required: 10	Number of samples analyzed: 10
If the number of samples analyzed is less than the standard number of sampling sites required for your water system, then explain why:		
b.	Were all sampling sites tier 1 sites? <input checked="" type="checkbox"/> Yes () No	If no, explain:
c.	Were 50% of your lead samples from sites with Lead Service Lines? () Yes <input checked="" type="checkbox"/> No	If no, explain: PWS has no lead service lines.
d.	Have any of your sampling sites changed since the last monitoring period? () Yes <input checked="" type="checkbox"/> No	If yes, state which sites and explain:
e.	90 th % Lead Level (mg/L): .003	90 th % Copper Level (mg/L): .130

When the 90th % Lead Level is 0.0155 mg/L (or higher) or the 90th % Copper Level is 1.350 mg/L (or higher), contact your Ohio EPA district office within three business days for additional requirements.

I certify that each first-draw lead and copper sample collected for our water system was one liter in volume, was taken from a kitchen or bathroom cold-water tap or a drinking fountain, and, to the best of my knowledge, had stood motionless in the service line and in the interior plumbing of the sampling site for at least six hours. I further certify that each tap sample collected by residents was taken after the water system informed them of proper sampling procedures.


9/18/13
RICH MEARD
 Signature of Operator of Record Date Printed Name

For Ohio EPA use only:	Received Date:	Monitoring Period:	Approved: () Yes () No
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DRINKING WATER LEAD AND COPPER MONITORING REPORT

Submit with Form EPA 5105

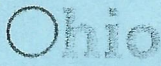
Page _____ of _____ pages

PWS Name: Andover Village	PWSID: OH	Analytical Laboratory Name: Alloway	Laboratory Certification No.: 4053
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List samples sequentially by Laboratory Sample Number

Date of Sample	Time Sample Taken	Laboratory Sample Number	Address of Sample Site	Tap Type* and Location	Structure Type SFR, MFR or BLDG	Interior Plumbing Material	Service Line Material	Tier 1, 2, 3, or other	Lead Concn (ug/L)	Copper Concn (ug/L)
8/6/13	7:15 am	ML3-20373-03	76 Dogwood, Andover	Kitchen	SFR	QIPb < 83	Q1	1	< 2.0	23
8/6/13	5:25 am	ML3-20373-01	260 Case, Andover	Kitchen	SFR	QIPb > 82	Other	1	9.7	78
8/6/13	6:30 am	ML3-20373-02	186 Elm, Andover	Kitchen	SFR	QIPb < 83	Q1	1	< 2.0	22
8/6/13	8:00 am	ML3-20373-04	300 Cleveland, Andover	Kitchen	SFR	QIPb < 83	Q1	1	3.1	130
8/6/13	7:30 am	ML3-20373-05	231 S. Main, Andover	Kitchen	SFR	QIPb < 83	Q1	1	< 2.0	110
8/6/13	7:00 am	ML3-20373-06	180 Maple, Andover	Kitchen	SFR	QIPb < 83	Other	1	< 2.0	100
8/6/13	6:45 am	ML3-20373-07	148 S. Park, Andover	Kitchen	SFR	QIPb > 82	Q1	1	< 2.0	23
8/6/13	7:00 am	ML3-20737-08	188 Oak, Andover	Kitchen	SFR	QIPb < 83	Q1	1	< 2.0	110
8/6/13	9:50 am	ML3-20373-09	197 Chestnut, Andover	Bath 1 st Fl.	SFR	QIPb < 83	Q1	1	< 2.0	78
8/6/13	8:00 am	ML3-2-373-10	150 Stillman, Andover	Kitchen	SFR	QIPb > 82	Other	1	< 2.0	190

*Tap type codes: B - bathroom cold water tap; D - drinking fountain; K - kitchen sink cold water tap; R - restroom sink cold water tap; O - other (with prior Ohio EPA acceptance)
 Note: 1 mg/L = 1000 ug/L



Verification of Lead Consumer Notice Issuance

Public Water System Name: Andover Village

Public Water System ID Number: OH0400012

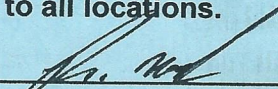
Monitoring Period: June 1 - September 30

Return this completed form and a copy of a sent Lead Consumer Notice to Ohio EPA, DDAGW-Central Office, PO Box 1049, Columbus, OH 43216-1049 or Fax to (614) 644-2909 (receipt being no later than 90 days after the end of the monitoring period). Retain a copy of this report in your files with supporting documentation for a minimum of 12 years.

System Type	Method of Delivery	Date(s) of Delivery
Community Systems	Mail or hand delivery to location where samples were collected.	Date(s) of () mail <input checked="" type="checkbox"/> hand delivery: <u>9/17/13</u>
Nontransient Noncommunity (NTNC) or Certain Small Community Systems (e.g., Correctional Institutions or Nursing Homes)	Post near locations where samples were collected. (Post a minimum of 7 days.)	Date notices posted: _____
Additional Requirements for Schools, Day Care Facilities, Nursing Homes, and Juvenile Correctional Institutions	Notify parents, legal guardians or power of attorney of postings. (e.g., by newsletter, e-mail, or other method accepted by Ohio EPA)	() Newsletter () e-mail () Other Method: _____ Date(s): _____

I hereby certify that the Lead Consumer Notice was issued to all locations that were sampled within 30 days of receiving sample results. Issuance was made by the method(s) indicated above in accordance with OAC Rule 3745-81-85.

Additionally, the attached copy of a Lead Consumer Notice is representative of what was issued to all locations.


Signature of Responsible Official

9/18/13
Date

RICH MEAD
Printed Name

Operator of Record
Title of Responsible Official

For OEPA use only

Consumer Notice Verification Received Date: _____

Consumer Notice Acceptable: _____ Consumer Notice Not Acceptable: _____