

Village of Andover

Experience small town pride with down home hospitality.

134 Maple Street
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Village of Andover Chromium fact sheet

September, 2016

Chromium Hexavalent or Chromium 6 refers to the chemical compound of the element Chromium. It is naturally occurring and frequently present in natural water, one chemical form of Chromium is even used in supplements and vitamins.

The U.S. EPA sets maximum contaminant levels for Chromium in drinking water. The standards are set to help avoid having people ingest unhealthy levels of Chromium. The level is set at which no known adverse effects are present to human health. The current level is 100 UG/L or 100 (ppb). The state of California has a regulatory limit of 50 ppb total Chromium and 10 ppb Chromium Hex.

Chromium Hex is used in textile dyes, wood preservation, anti-corrosion products, industrial uses for Chromium compounds such as chromates conversion coatings, pigments in dyes, paints, and plastics are used. It also can be formed when performing welding on stainless steel.

Andover water and wastewater Chromium levels

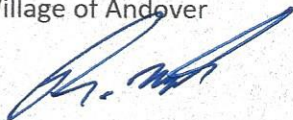
The Village water plant is not required to monitor Chromium, however ambient ground water quality results for well #7 show Non Detect for 2015. The wastewater plant tests quarterly for Chromium, August 2016 results show <10 UG/L for total Chromium and <10 UG/L for Chromium Hex. The minimum detection level is 10 UG/L.

If you have any questions please contact me any time.

Sincerely,

Richard W Mead

Village of Andover





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 Ohio Laboratory Certification # 893

Final Report

Report Date: 8/24/2016
 Report Number: 46324-0
 Chain of Custody #: 153998
 Project Name: AUG 2016 WK 3

- Certificate of Analysis -
 for

ANDOVER VILLAGE
 134 MAPLE ST
 P.O. BOX 1267
 ANDOVER, OH 44003

*WWTP
2016*

Project Comments: WWTP

Lab ID: 16082354

Date Sampled: 8/17/2016 9:30:00AM

Sample Type: Wastewater

Date Received: 8/17/2016

Your Sample ID: FINAL EFF

Collection: GRAB

Method	Analyte	Result	Units	MDL/PQL	Analysis Date	Analyst
mColiBlue-24®	E. Coli.	11.0	cfu/100mL	1	08/17/16	CC
SM22nd 3500Cr-B	Hexavalent Chromium	<10.0	µg/L	10	08/18/16	WG

Lab ID: 16082458

Date Sampled: 8/12/2016 8:30:00AM

Sample Type: Wastewater

Date Received: 8/17/2016

Your Sample ID: FINAL EFF

Collection: COMP

Method	Analyte	Result	Units	MDL/PQL	Analysis Date	Analyst
EPA_365.1	Total Phosphorus	0.51	mg/L	0.01	08/23/16	CC

Lab ID: 16082459

Date Sampled: 8/14/2016 8:30:00AM

Sample Type: Wastewater

Date Received: 8/17/2016

Your Sample ID: FINAL EFF

Collection: COMP

Method	Analyte	Result	Units	MDL/PQL	Analysis Date	Analyst
EPA_200.7	Cadmium	<10	µg/L	10	08/23/16	CC
	Chromium	<10	µg/L	10	08/23/16	CC
	Copper	<10	µg/L	10	08/23/16	CC
	Lead	58	µg/L	10	08/23/16	CC
	Nickel	<10	µg/L	10	08/23/16	CC
	Zinc	79	µg/L	10	08/23/16	CC



Andover 2015 Report **WTP**

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**

Result/Unit	Reporting Limit	Comment	Lab Remark	Lab Method
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FieldParameter

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: 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%