



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

February 10, 2022

Transmitted Electronically

Mr. Joe Sampson
Urbana City PWS
205 South Main Street
Urbana, Ohio 43078

Re: Urbana City PWS
Report
Ambient Ground Water Quality
Monitoring
Champaign County
OH1101212

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

Dear Mr. Sampson:

The Ohio Environmental Protection Agency (Ohio EPA), Division of Environmental Services (DES) completed the laboratory analysis of the ground water samples that were collected on October 6, 2021, from Urbana City Well #8. 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.

Mr. Joe Sampson
Urbana City PWS
OH1101212 – Ambient Results
February 10, 2022
Page 2 of 2

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 Jenna.Houdashelt@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,



Jenna Houdashelt
Environmental Specialist
Division of Drinking and Ground Waters

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

JH/tp



Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge
Balance
Error
+1.3%

Analyte Count on Sheet	31
Analyte Detected Count	-1

Station Name Urbana Wellfield-Old Troy Pl **Well Num** 8 **Ambient Well ID** 39CHA00109 **Samp. Status** Active18Cycle **PWS ID** OH1101212
Sample Num 21092709-01 **Sample Date/Time** 10/6/2021 12:15:00 **Sampler** Houdashelt, Jenna **Sample Type** Inorganic **QC Code** None
Chem. Sheet ID 15755 **Matrix** Ground Water **Sheet Status** SampleImported **County** Champaign **District** SWDO **Well Log #** 332299
Well Depth (ft) 63 **Casing Length (ft)** 30 **Lith. Open Section** Sand and Gravel **Major Lith.** Unconsolidated **Aquifer Name** MadRiver

FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	+172 mV	N/A			ValueBetweenQL-Std V	
pH	7.6 SU	N/A				
Specific Conductance	636 umhos/cm	N/A			ValueBelowQCStandard	
Temperature, water	21.8 deg C	N/A			ValueBelowQCStandard	
Total Dissolved Solids (TDS), Field	433 mg/L	N/A				

Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Barium	155 ug/L	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Calcium	67.8 mg/L	2 mg/L				401.1 (200.7/6010)
Chromium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Copper	21.2 ug/L	2 ug/L				460.1 (200.8/6020)
Hardness, Ca + Mg	305 mg/L	10 mg/L				401.1 (200.7/6010)
Iron	ND	50 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Lead	ND	2 ug/L			ValueBetweenQL-Std V	460.1 (200.8/6020)
Magnesium	32.9 mg/L	1 mg/L				401.1 (200.7/6010)
Manganese	ND	10 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Nickel	ND	2 ug/L			ValueBetweenQL-Std V	460.1 (200.8/6020)
Potassium	2.67 mg/L	2 mg/L				401.1 (200.7/6010)
Sodium	21.5 mg/L	5 mg/L				401.1 (200.7/6010)
Strontium	286 ug/L	30 ug/L				401.1 (200.7/6010)
Zinc	13.9 ug/L	10 ug/L				401.1 (200.7/6010)

Metals-ICPMS

Arsenic	ND	2 ug/L			ValueBetweenQL-Std V	460.1 (200.8/6020)
Cadmium	ND	0.2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBetweenQL-Std V	460.1 (200.8/6020)

Nutrients-Demand

Ammonia	ND	0.05 mg/L			ValueBelowQCStandard	250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std V	335.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBelowQCStandard	324.4 (SM 5220D)
Nitrate+Nitrite	2.24 mg/L	0.1 mg/L				250.8 (USEPA Redu)
Nitrogen, Total Kjeldahl (TKN)	ND	0.3 mg/L			ValueBelowQCStandard	250.6 (351.2)
Phosphorus	ND	0.01 mg/L			ValueBelowQCStandard	260.8 (365.4)

Unpreserved

Alkalinity, Total	266 mg/L	5 mg/L				220.1 (310.1)
Bromide	29.1 ug/L	20 ug/L				290.1 (300.1)
Chloride	36.6 mg/L	5 mg/L				230.2 (325.1)
Fluoride	0.225 mg/L	0.02 mg/L				290.1 (300.1)
Sulfate	27.1 mg/L	10 mg/L				270.3 (375.2)



Ground Water Quality Results

Inorganic results from raw, untreated Ambient well water

Charge Balance Error

+1.3%

Analyte Count on Sheet

31

Analyte Detected Count

-1

Station Name **Urbana Wellfield-Old Troy Pi** Well Num **8** Ambient Well ID **39CHA00109** Samp. Status **Active18Cycle** PWS ID **OH1101212**

Sample Num **21092709-01** Sample Date/Time **10/6/2021 12:15:00** Sampler **Houdashelt, Jenna** Sample Type **Inorganic** QC Code **None**

Chem. Sheet ID **15755** Matrix **Ground Water** Sheet Status **SampleImported** County **Champaign** District **SWDO** Well Log # **332299**

Well Depth (ft) **63** Casing Length (ft) **30** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **MadRiver**

Unpreserved

Total Dissolved Solids	376 mg/L	10 mg/L		130.2 (USGS I-175C)
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Field Comments

End of sample # **21092709-01**

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

Charge Balance Error exceeds +/- 5% which indicates an imbalance between cations and anions



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

Station Name **Urbana Wellfield-Old Troy Pi** Well Num **8** Ambient Well ID **39CHA00109** Samp. Status **Active18Cycle** PWS ID **OH1101212**
 Sample Num **21092709-01** Sample Date/Time **10/6/2021 12:15:00** Sampler **Houdashelt, Jenna** Sample Type **Organic** QC Code **None**
 Chem. Sheet ID **15756** Matrix **Ground Water** Sheet Status **Approved** County **Champaign** District **SWDO** Well Log # **332299**
 Well Depth (ft) **63** Casing Length (ft) **30** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **MadRiver**

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)
Acetone	ND	5 ug/L			ValueBelowQCStandard	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	1 ug/L	0.5 ug/L				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)
Dichloroethane, 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)
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)



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

Station Name **Urbana Wellfield-Old Troy Pi** Well Num **8** Ambient Well ID **39CHA00109** Samp. Status **Active18Cycle** PWS ID **OH1101212**
 Sample Num **21092709-01** Sample Date/Time **10/6/2021 12:15:00** Sampler **Houdashelt, Jenna** Sample Type **Organic** QC Code **None**
 Chem. Sheet ID **15756** Matrix **Ground Water** Sheet Status **Approved** County **Champaign** District **SWDO** Well Log # **332299**
 Well Depth (ft) **63** Casing Length (ft) **30** Lith. Open Section **Sand and Gravel** Major Lith. **Unconsolidated** Aquifer Name **MadRiver**

VolatileOrganic

	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
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	2.37 ug/L	0.5 ug/L				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			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			ValueBetweenQL-Std V	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)	1 ug/L	0.5 ug/L			ValueBetweenQL-Std V	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 # 21092709-01

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

Charge Balance Error exceeds +/- 5% which indicates an imbalance between cations and anions



Ground Water Quality Report

Division of Drinking and Ground Waters

Report Date: 2/3/2022

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: Urbana Wellfield-Old Troy Pike	Well Number: 8	Ambient Well ID: 39CHA00109	County: Champaign
Casing Length (ft) 30	Well Depth (ft) 63	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 public water supply distribution water (post-treatment), and not to the raw, untreated ground water samples represented in this report. Current Reporting Limits are listed for each graph. Several parameters have multiple reporting limits over the period of data collection, which are obvious in the time series.

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 Michael Slattery at (614)-728-1221 at Ohio EPA in Columbus, Oh., or email us at: gwq@epa.ohio.gov

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.

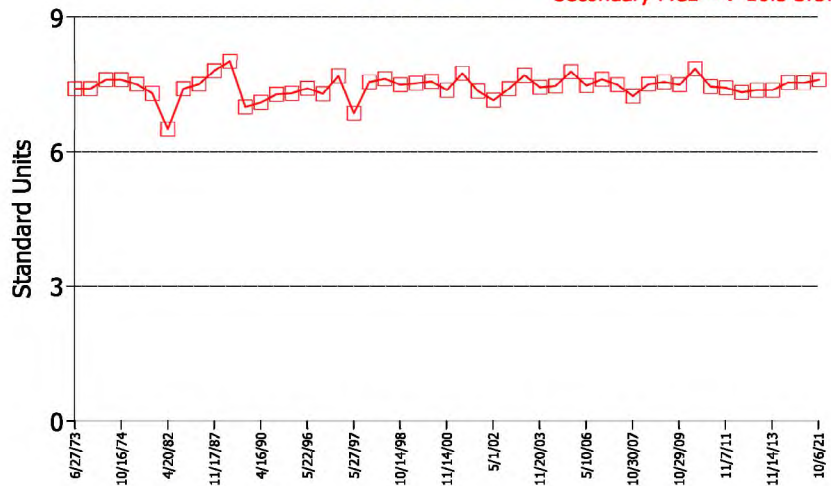
Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

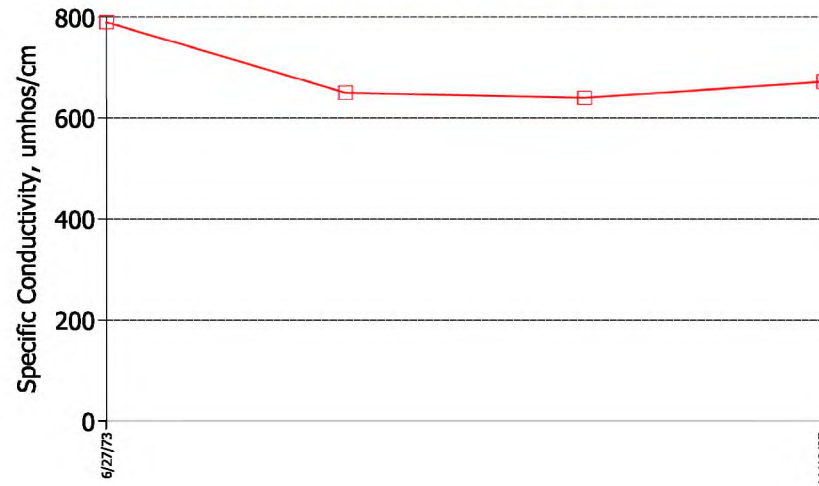
FIELD DATA

pH, Field

Secondary MCL = 7-10.5 S.U.



Specific Conductivity, Field

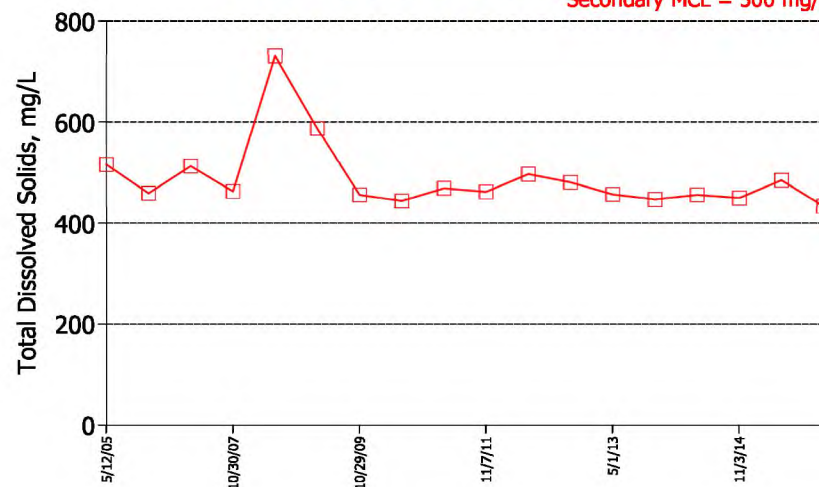


Oxidation Reduction Potential, Field



Total Dissolved Solids, Field

Secondary MCL = 500 mg/L

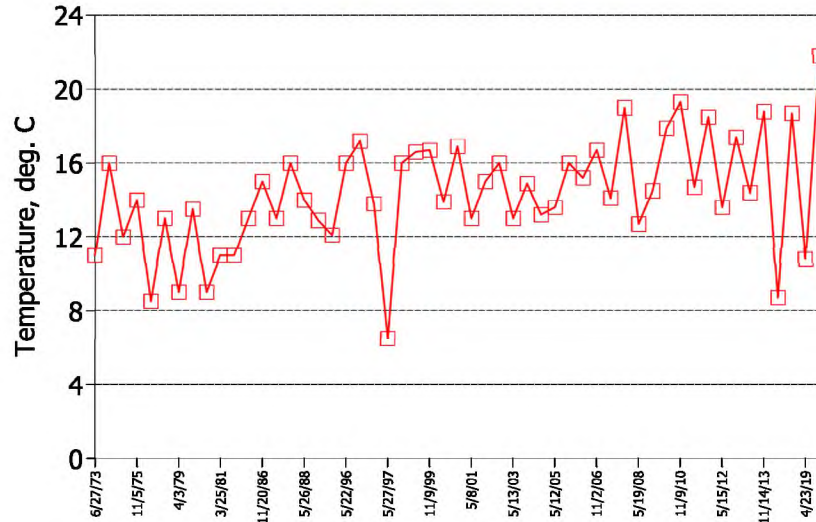


Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

FIELD DATA

Water Temperature, Field

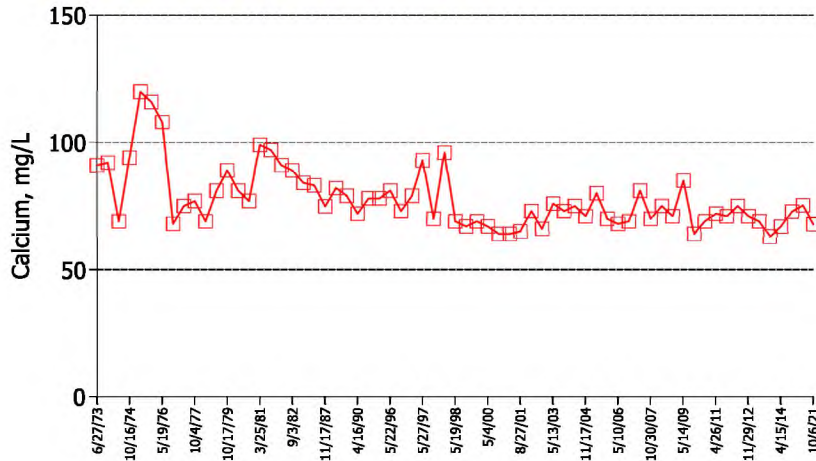


Inorganic Time Series

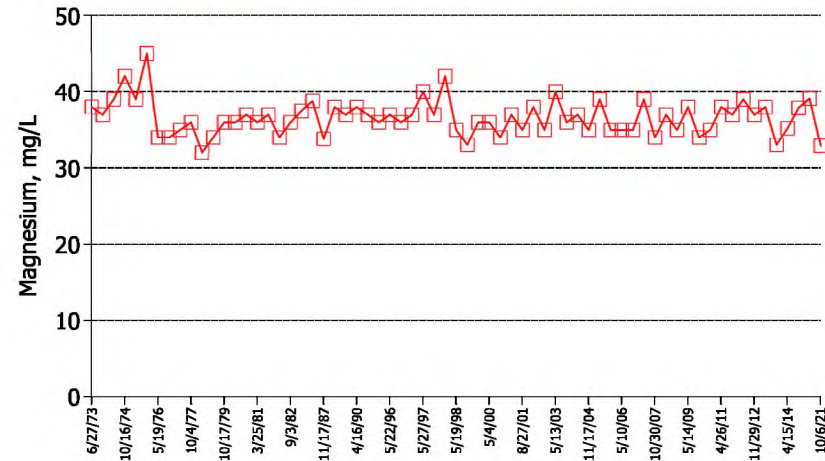
Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

MAJOR IONS, ALKALINITY, and TDS

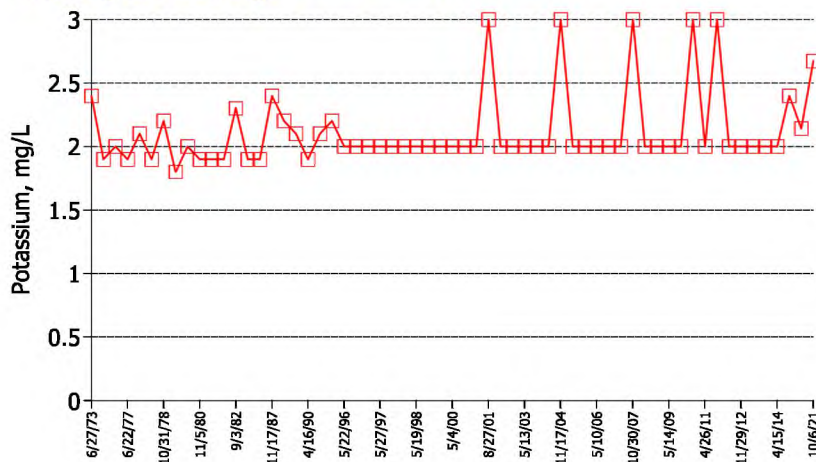
Reporting Limit = 2.0 mg/L **Calcium, Total**



Reporting Limit = 1.0 mg/L **Magnesium, Total**



Reporting Limit = 2.0 mg/L **Potassium, Total**



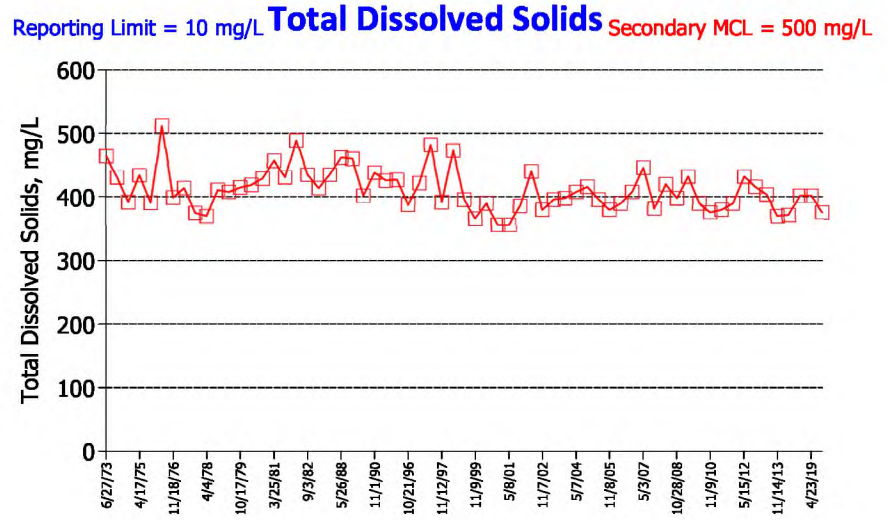
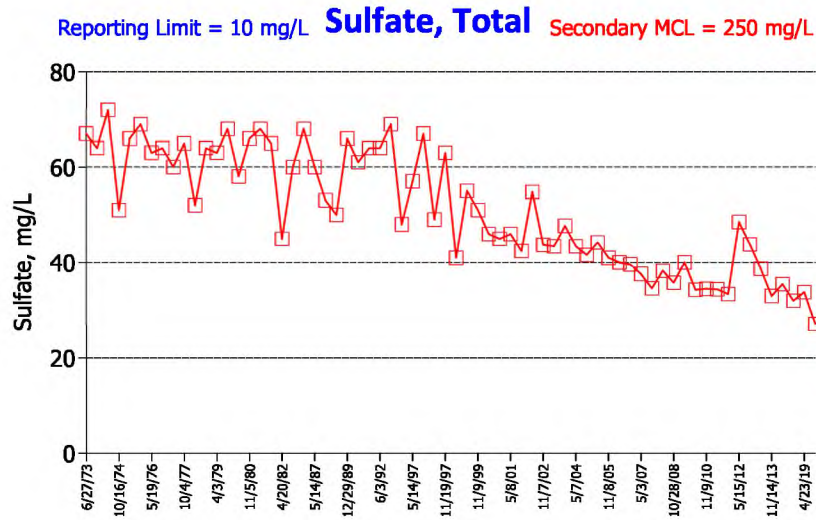
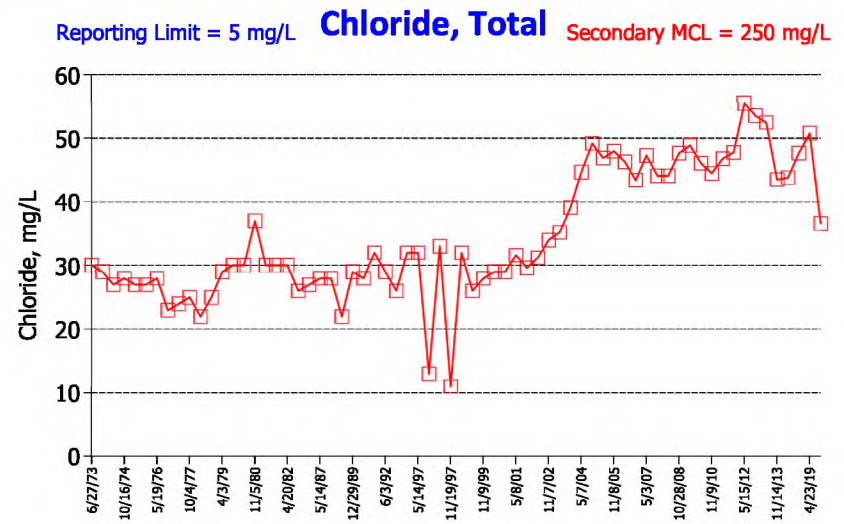
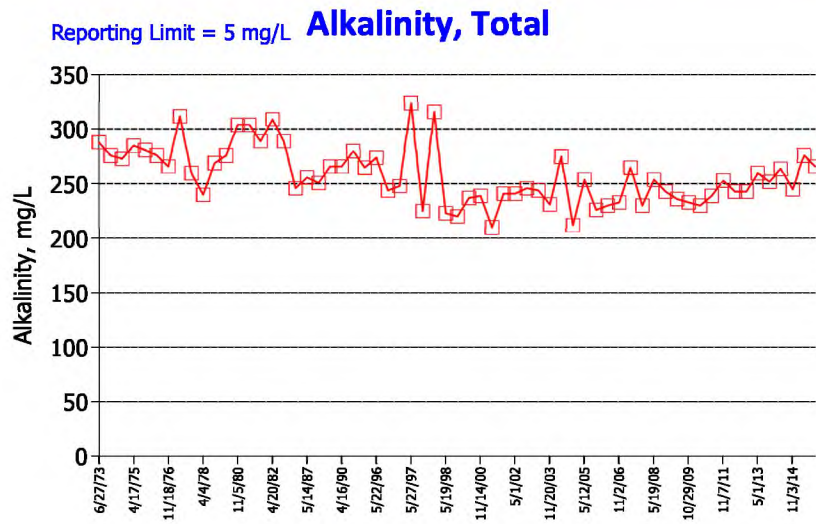
Reporting Limit = 5.0 mg/L **Sodium, Total**



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

MAJOR IONS, ALKALINITY, and TDS

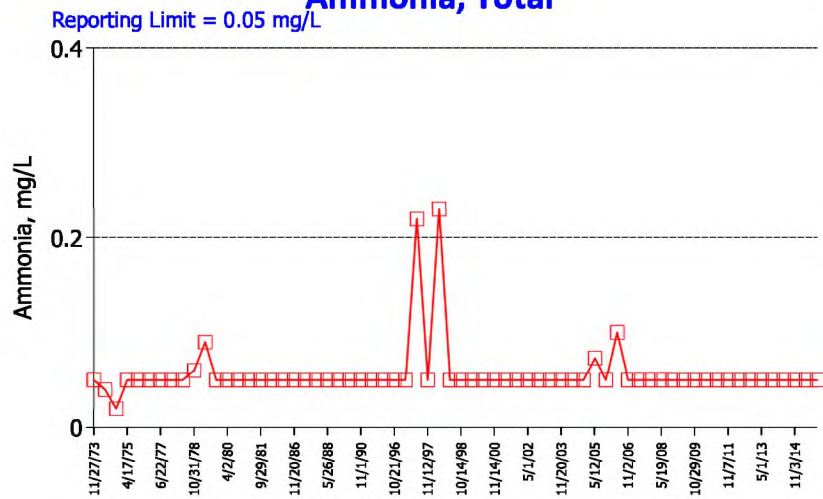


Inorganic Time Series

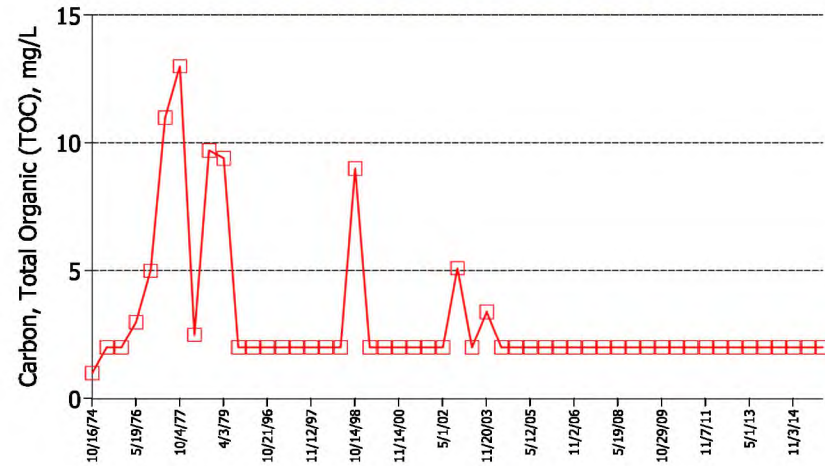
Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

NUTRIENTS

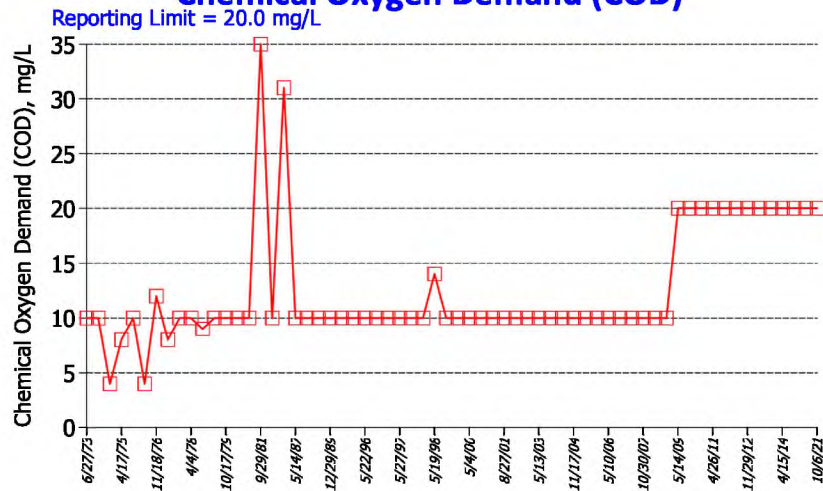
Ammonia, Total



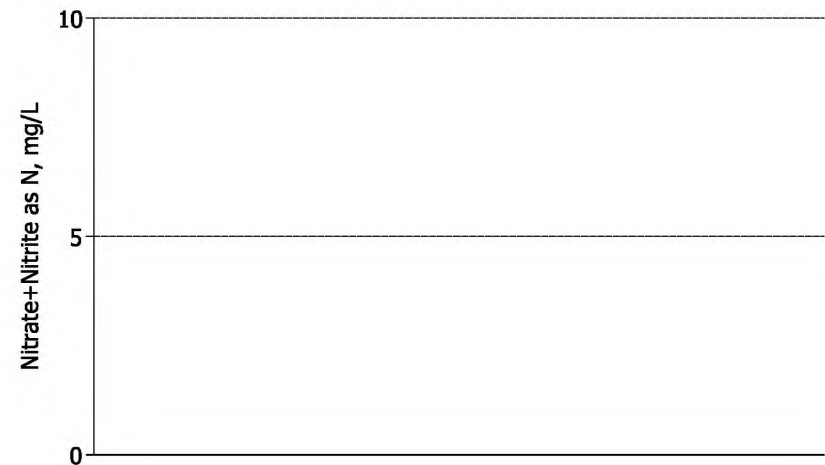
Carbon, Total Organic (TOC)



Chemical Oxygen Demand (COD)



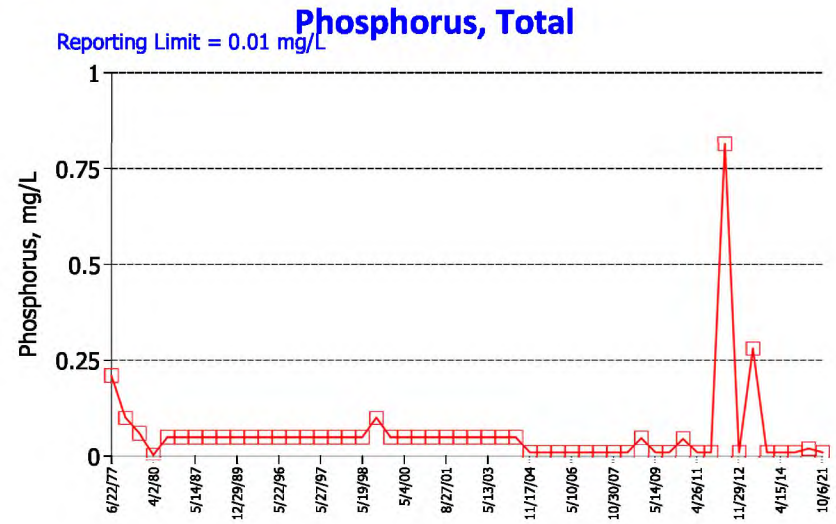
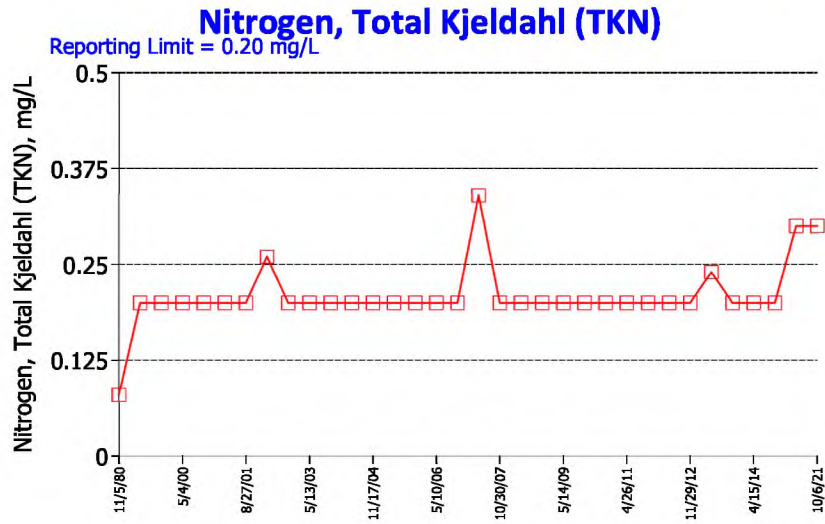
Nitrate+Nitrite as N



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

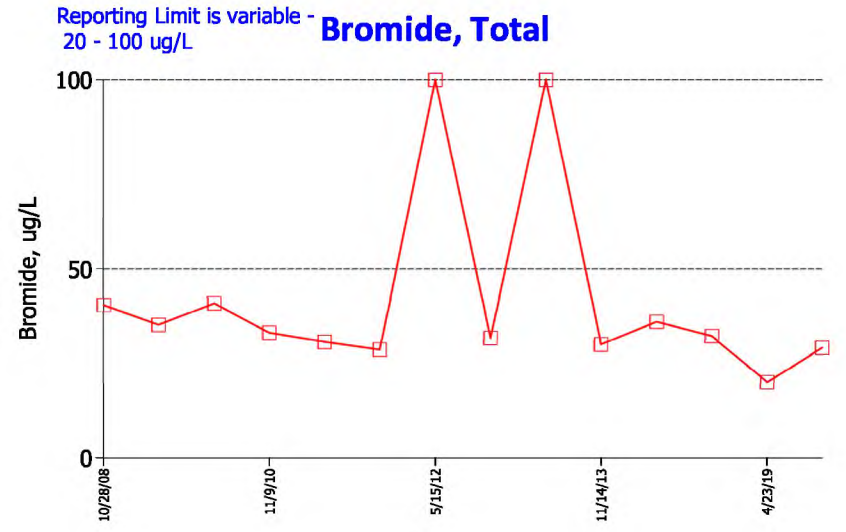
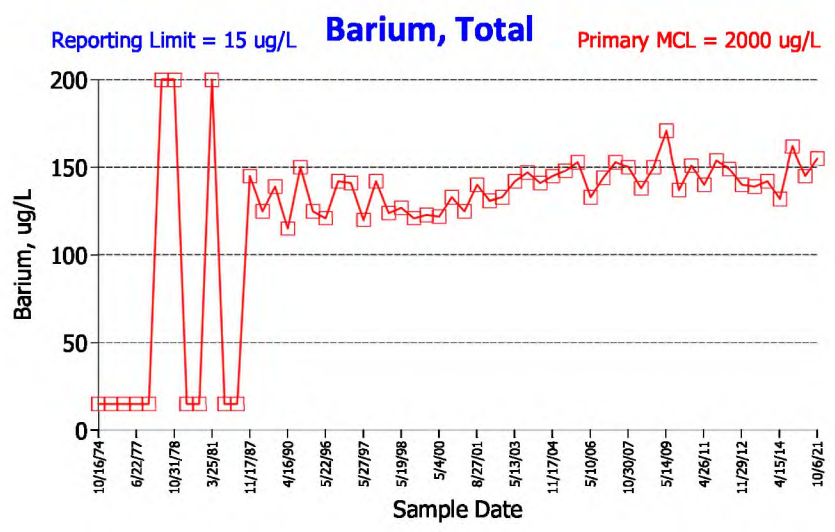
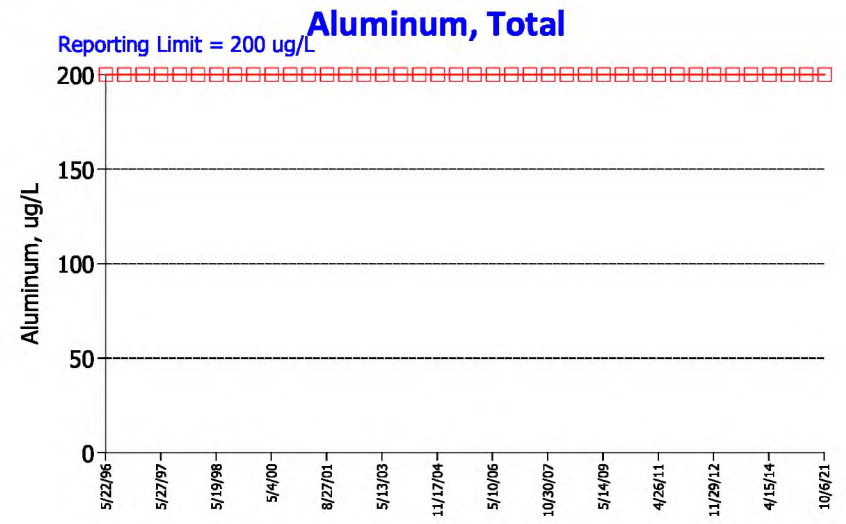
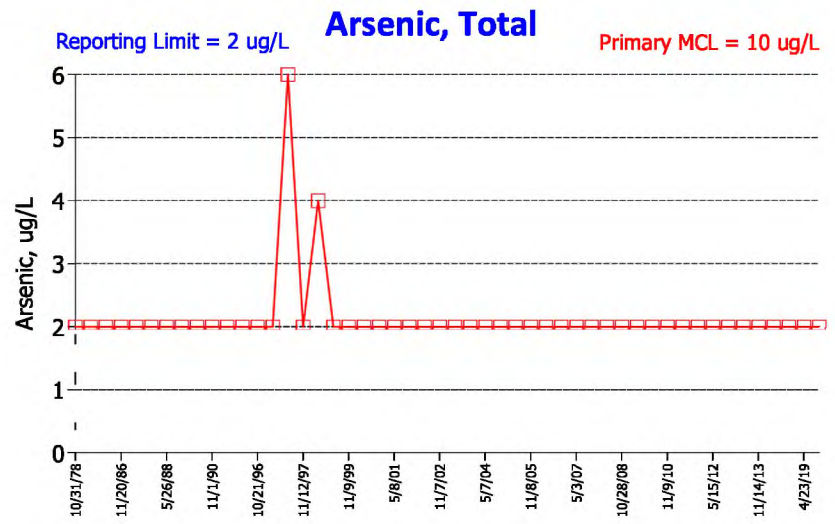
NUTRIENTS



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

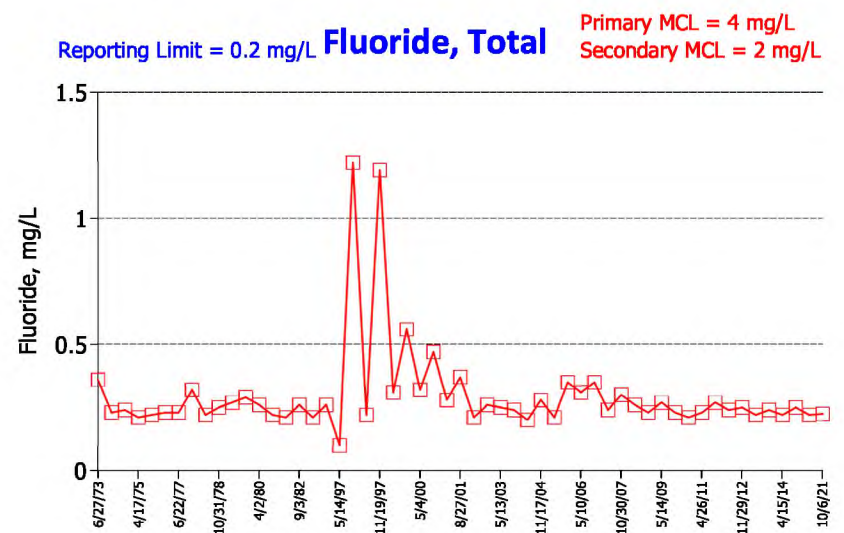
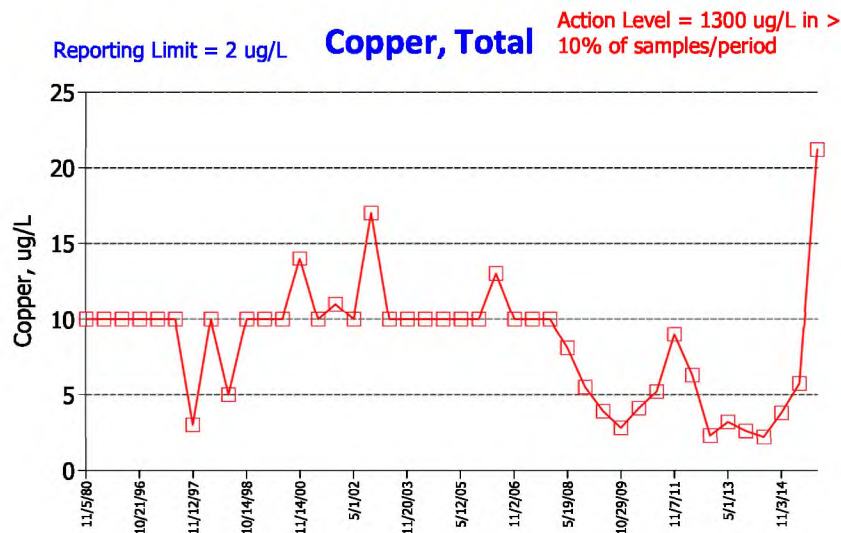
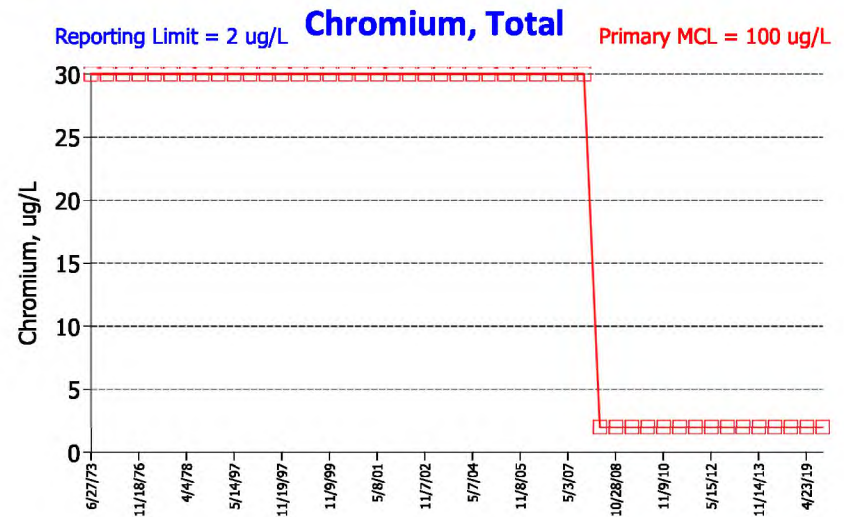
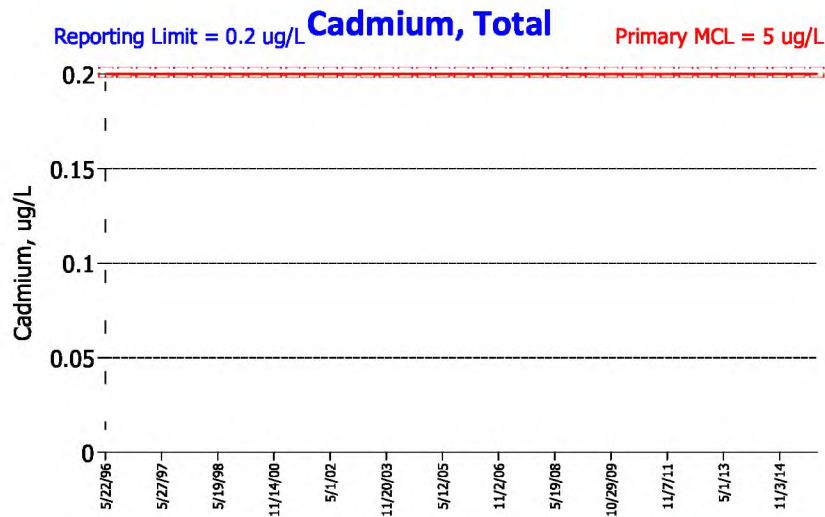
TRACE IONS



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

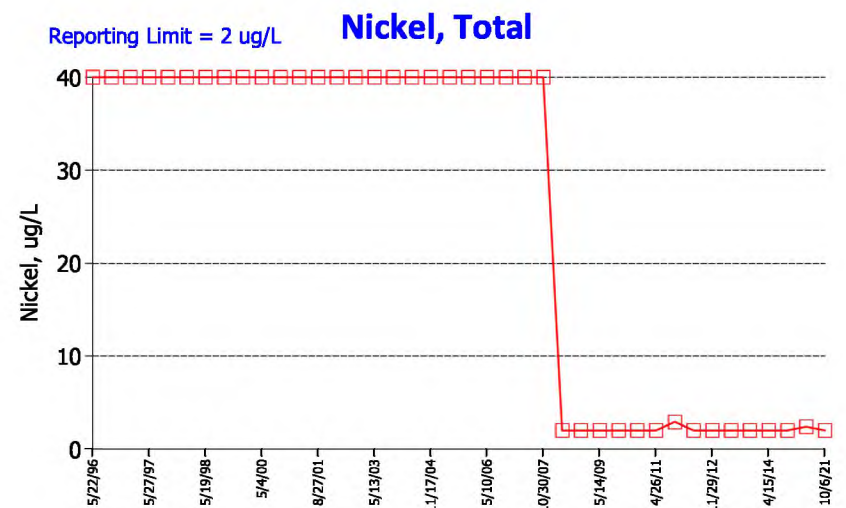
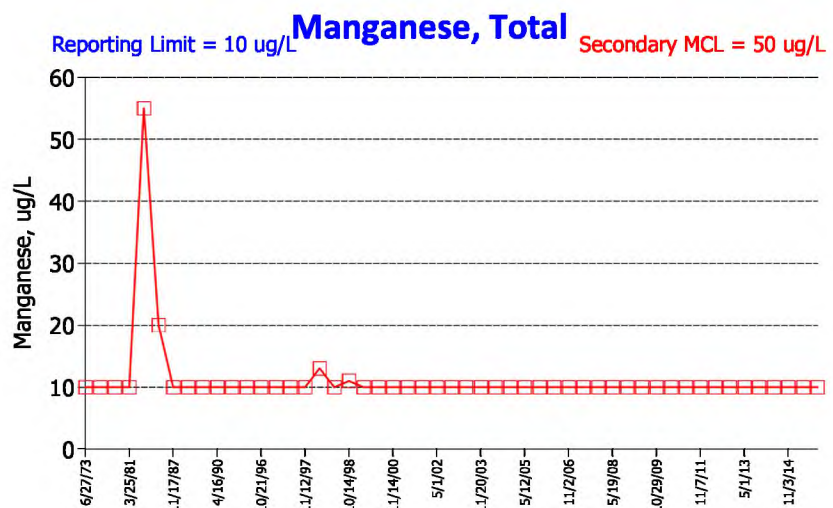
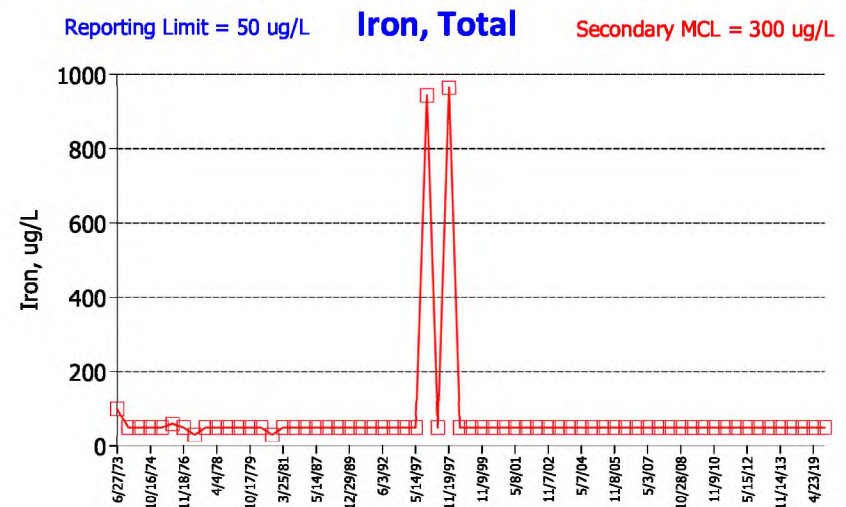
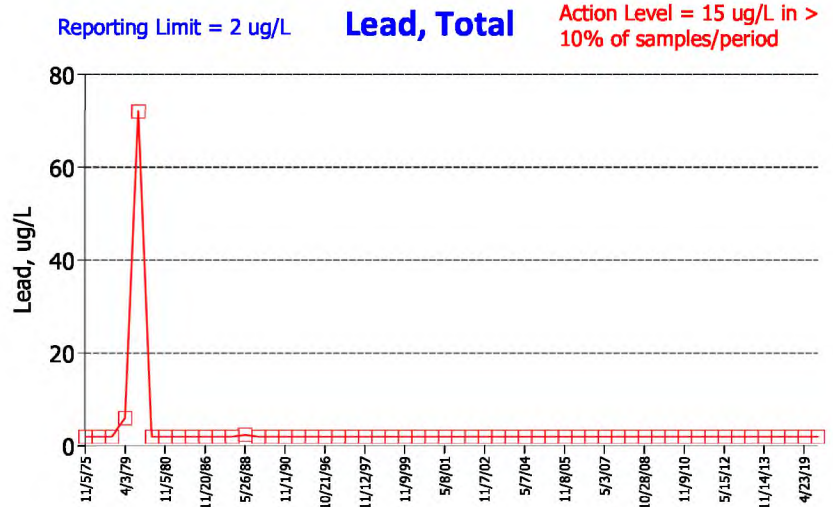
TRACE IONS



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

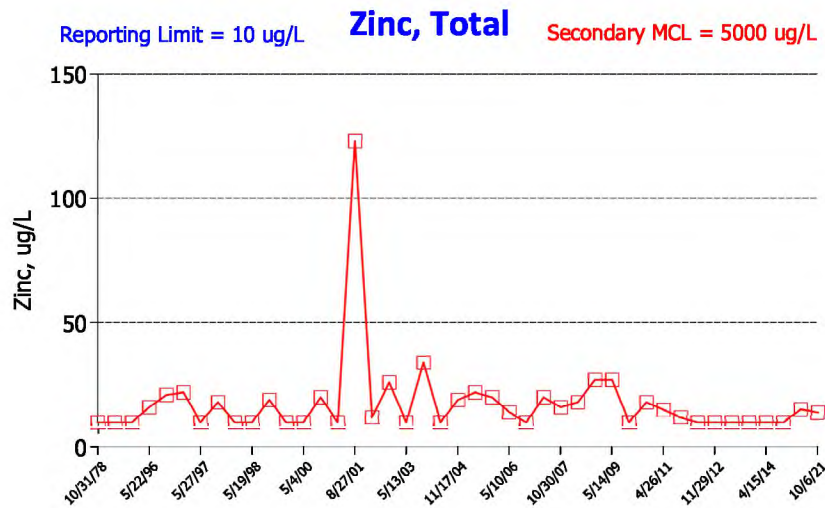
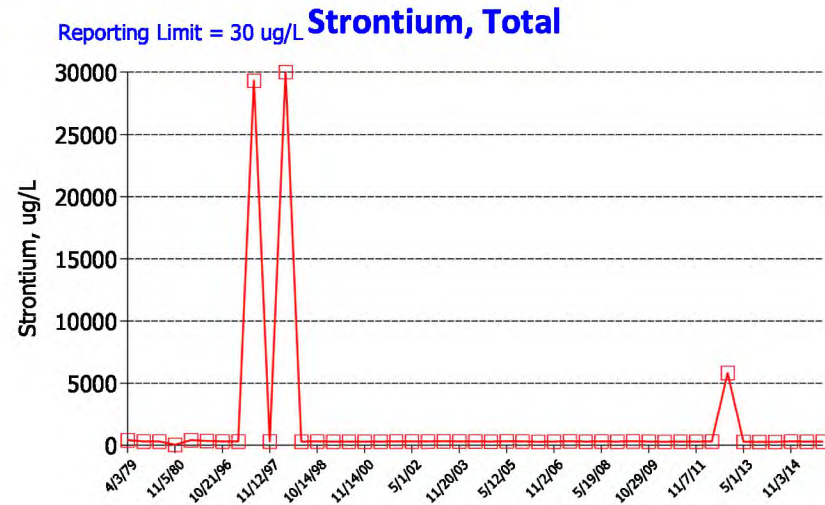
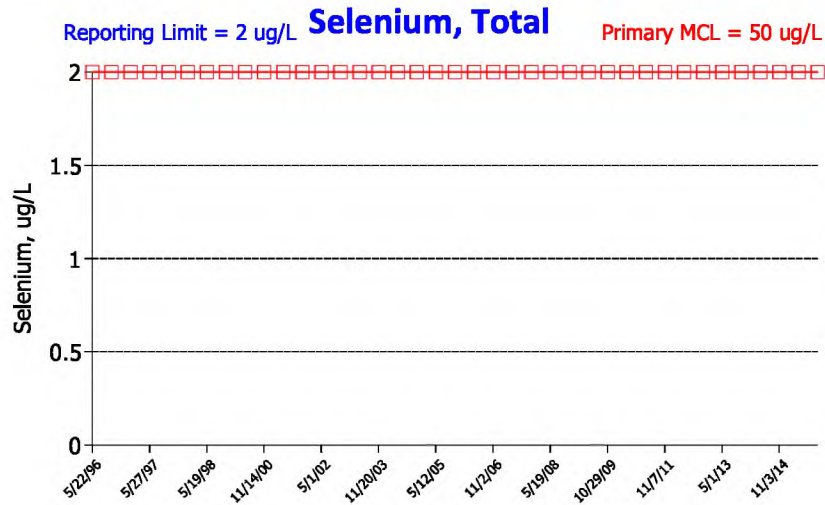
TRACE IONS, cont'd



Inorganic Time Series

Site Name	Urbana Wellfield-Old Troy Pike	Well Number	8	Ambient Well ID	39CHA00109	Well Depth (ft)	63
District	SWDO	County	Champaign	Aquifer Name	MadRiver	Casing Length (ft)	30
						Major Lithology	Sand and Gravel

TRACE IONS, cont'd





Inorganic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **6/27/1973 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**



FieldParameter

FieldParameter	Units	Current Reporting Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
Oxidation Reduction Potential (ORP)	mV	N/A	211.1	84	297	227	56.8	172	20	N/A	N/A
Specific Conductance	umhos/cm	N/A	629.4	250	1057	654	137.8	636	44	N/A	N/A
Temperature, water	deg C	N/A	14.3	6.5	21.8	14.1	3.1	21.8	53	N/A	N/A
Total Dissolved Solids (TDS), Field	mg/L	N/A	489.2	433	731	462.5	70.3	433	18	N/A	N/A
pH	S.U.	N/A	7.4	6.5	8.01	7.465	0.3	7.6	42	N/A	N/A

Metals-ICP

Aluminum	ug/L	200	200	ND	ND	200	N/A	200	40	40	100
Barium	ug/L	15	123.1	ND	200	139.5	18.9	155	58	9	15.5
Boron	ug/L	200	200	ND	ND	200	N/A	200	2	2	100
Calcium	mg/L	2	77.8	63	120	75	12.1	67.8	67	0	0
Chromium	ug/L	2	21.1	ND	ND	30	N/A	2	47	47	100
Chromium, hexavalent	ug/L	10	10	ND	ND	10	N/A	10	1	1	100
Copper	ug/L	2	8.5	ND	21.2	10	5.3	21.2	42	21	50
Hardness, Ca + Mg	mg/L	10	336.9	293	483	330.5	31	305	50	0	0
Iron	ug/L	50	78.1	ND	964	50	464.7	50	65	59	90.8
Lead	ug/L	2	3.3	ND	72	2	34.3	2	56	52	92.9
Magnesium	mg/L	1	36.6	32	45	37	2.3	32.9	67	0	0
Manganese	ug/L	10	11.2	ND	55	10	20.5	10	51	47	92.2
Nickel	ug/L	2	25.8	ND	2.9	40	0.4	2	40	38	95
Potassium	mg/L	2	2.1	ND	3	2	0.3	2.67	61	6	9.8
Sodium	mg/L	5	17.1	ND	26	16	4.3	21.5	68	1	1.5
Strontium	ug/L	30	1716.5	253	30000	291	6213.9	286	45	1	2.2
Zinc	ug/L	10	17.6	ND	123	13.9	21.5	13.9	43	18	41.9

Metals-ICPMS

Arsenic	ug/L	2	2.1	ND	6	2	1.4	2	50	48	96
Cadmium	ug/L	0.2	0.2	ND	ND	0.2	N/A	0.2	39	39	100
Selenium	ug/L	2	2	ND	ND	2	N/A	2	39	39	100

Nutrients-Demand

Ammonia	mg/L	0.05	0.1	ND	0.23	0.05	0.1	0.05	66	55	83.3
Carbon, Total Organic (TOC)	mg/L	2	3	ND	13	2	4	2	51	40	78.4
Chemical Oxygen Demand (COD)	mg/L	20	12.7	ND	35	10	11.4	20	65	56	86.2
Nitrate+Nitrite	mg/L	0.1	3.1	ND	4.76	3.27	0.6	2.24	53	2	3.8
Nitrogen, Nitrate (NO3) as NO3	mg/L	0.1	1.8	0.01	3	2.52	1.6	2.52	3	0	0
Nitrogen, Nitrite (NO2) as NO2	mg/L	0.02	0	ND	ND	0.02	N/A	0.02	1	1	100
Nitrogen, Total Kjeldahl (TKN)	mg/L	0.3	0.2	ND	0.34	0.2	0.1	0.3	34	30	88.2
Phenols (mixture)	ug/L	10	10	ND	ND	10	N/A	10	1	1	100
Phosphorus	mg/L	0.01	0.1	ND	0.814	0.05	0.3	0.01	52	43	82.7
Tritium	TU	0.8	8.5	6.1	10.8	8.45	3.3	6.1	2	0	0

Unpreserved

Alkalinity, Total	mg/L	5	258	210	324	254	26.2	266	63	0	0
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Explanation Mean and median calculated by replacing non-detect values with current reporting limit
 ND denotes a result below the reporting limit (non-detect); N/A denotes Not Applicable

Report last modified: Dec 30, 2020



Inorganic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **6/27/1973 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**

Units	Current Reporting Limit	Statistics							Sample Counts		
		Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND	

Unpreserved

Bromide	ug/L	20	42	ND	40.9	32.65	4.2	29.1	14	3	21.4
Chloride	mg/L	5	34.6	11	55.5	30.6	10	36.6	68	0	0
Fluoride	mg/L	0.02	0.3	ND	1.22	0.25	0.2	0.225	55	1	1.8
MBAS (detergents, surfactants)	mg/L	2	0.4	ND	0.2	0.08	0	2	16	3	18.8
Solids, Total	mg/L	5	5	ND	ND	5	N/A	5	1	1	100
Specific conductance	umhos/cm	1	688	640	790	661	69.3	672	4	0	0
Sulfate	mg/L	10	51	27.1	72	49.5	12.4	27.1	68	0	0
Total Dissolved Solids	mg/L	10	411.5	356	512	408	32.7	376	65	0	0
pH	S.U.	N/A	7.5	7.28	7.6	7.45	0.1	7.55	8	0	0

Explanation

Mean and median calculated by replacing non-detect values with current reporting limit
 ND denotes a result below the reporting limit (non-detect); N/A denotes Not Applicable

Report last modified: Dec 30, 2020



Organic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **5/22/1996 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**



Semi-Volatile Organic Compounds, USEPA Method 625

Compound	Unit	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
4-Chloro-3-methylphenol	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Acenaphthene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Acenaphthylene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Anthracene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Benzo[a]anthracene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Benzo[a]pyrene	ug/L	0.54	BRL	ND	ND	ND	n/a	ND	5	5	100
Benzo[b]fluoranthene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Benzo[g,h,i]perylene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Benzo[k]fluoranthene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
bis(2-chloroethoxy) methane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
bis(2-chloroethyl) ether	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
bis(2-Chloroisopropyl) ether	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
bis(n-octyl) phthalate	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Bromophenyl-4 phenyl ether	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Butyl benzyl phthalate	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Chloronaphthalene-2	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Chlorophenol-2	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Chlorophenyl-4 phenyl ether	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Chrysenes C1-C4	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dibenzo[a,h]anthracene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dibutyl phthalate	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dichlorobenzene, 1,2-,BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dichlorobenzene, 1,3-,BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dichlorobenzene, 1,4-,BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dichlorophenol, 2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Diethyl phthalate	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dimethyl phthalate	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dimethylphenol, 2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dinitro-o-cresol	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dinitrophenol, 2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dinitrotoluene, 2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Dinitrotoluene, 2,6-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Fluoranthenes, C1-C4	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Fluorenes, C1-C3	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Hexachlorobenzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Hexachlorocyclopentadiene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Hexachloroethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Indeno[1,2,3-cd]pyrene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Isophorone	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Naphthalene, BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Nitro-benzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Nitrophenol, 2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Nitrophenol, 4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100
Nitrosodiphenylamine, n-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	2	2	100

Explanation

Values in red indicate one or more detections for that parameter

Report Date: 2/3/2022

BRL -- 'Below Reporting Limit' - this value cannot be calculated, but would fall below reporting limit

ND -- 'Non-detect' denotes a result below the reporting limit.

n/a -- 'not applicable' indicates this value cannot be calculated



Organic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **5/22/1996 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**



Semi-Volatile Organic Compounds, USEPA Method 625

Compound	Unit	Value	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
Nitrosodipropylamine, n-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100
Pentachlorophenol (PCP)	ug/L	5.4	BRL	ND	ND	ND	n/a	ND		5	5	100
Phenanthrenes, C1-C4	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100
Phenol	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100
Pyrene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100
Trichlorobenzene, 1,2,4-,BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100
Trichlorophenol, 2,4,6- (TCPH), BNA	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		2	2	100

Pesticides and Herbicides, USEPA Method 525.2

Compound	Unit	Value	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
Acetochlor	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		1	1	100
Alachlor	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		4	4	100
Atrazine	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		4	4	100
bis(2-ethylhexyl) phthalate (DEHP)	ug/L	0.54	0.55	0.5	0.74	0.5	n/a	0.74		5	4	80
Butachlor	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		3	3	100
Cyanazine	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		3	3	100
Di(2-ethylhexyl) adipate	ug/L	0.54	BRL	ND	ND	ND	n/a	ND		3	3	100
Metolachlor	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		4	4	100
Metribuzin	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		4	4	100
Propachlor	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		3	3	100
Simazine	ug/L	0.22	BRL	ND	ND	ND	n/a	ND		4	4	100

Volatile Organic Compounds, USEPA Method 524.2

Compound	Unit	Value	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
2-Butanone	ug/L	1	BRL	ND	ND	ND	n/a	ND		2	2	100
4-Methyl-2-pentanone	ug/L	1	BRL	ND	ND	ND	n/a	ND		2	2	100
Acetone	ug/L	5	BRL	ND	ND	ND	n/a	ND		2	2	100
Acrylonitrile	ug/L	1	BRL	ND	ND	ND	n/a	ND		2	2	100
Benzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Bromoform	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Butyl benzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Butylbenzene, sec-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Butylbenzene, tert-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Carbon disulfide	ug/L	1	BRL	ND	ND	ND	n/a	ND		2	2	100
Carbon tetrachloride	ug/L	2	BRL	ND	ND	ND	n/a	ND		19	19	100
Chlorobenzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Chlorobromomethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Chlorodibromomethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Chloroethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Chloroform	ug/L	0.5	1	0.5	1.62	0.99	0.3	1		19	1	5.3
Chlorotoluene, 2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Chlorotoluene, 4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Cumene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Cymene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Dibromomethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Dichlorobenzene, 1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100
Dichlorobenzene, 1,3-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND		19	19	100

Explanation

Values in red indicate one or more detections for that parameter

Report Date: 2/3/2022

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Organic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **5/22/1996 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**



Volatile Organic Compounds, USEPA Method 524.2

Compound	Units	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
Dichlorobenzene, 1,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichlorobromomethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichlorodifluoromethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	20	20	100
Dichloroethane, 1,1-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloroethane, 1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloroethene, trans-1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloroethylene, 1,1-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloroethylene, cis-1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropane, 1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropane, 1,3-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropane, 2,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropene, 1,1-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropene, 1,3 cis-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Dichloropropene, 1,3 trans-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Ethyl benzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Ethylene dibromide (EDB)	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Hexachlorobutadiene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Hexanone, 2-	ug/L	1	BRL	ND	ND	ND	n/a	ND	2	2	100
Iodomethane	ug/L	1	BRL	ND	ND	ND	n/a	ND	2	2	100
Methyl bromide	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Methyl chloride	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Methyl tertiary butyl ether (MTBE)	ug/L	1	BRL	ND	ND	ND	n/a	ND	16	16	100
Methylene chloride	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Monobromobenzene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Naphthalene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	17	17	100
Propylbenzene, n-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Styrene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Tetrachloroethane, 1,1,1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Tetrachloroethane, 1,1,2,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Tetrachloroethylene	ug/L	0.5	1.67	0.5	2.4	1.7	0.5	2.37	19	1	5.3
Toluene	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trans-1,4-Dichloro-2-butene	ug/L	1	BRL	ND	ND	ND	n/a	ND	2	2	100
Trichlorobenzene, 1,2,3-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trichlorobenzene, 1,2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	17	17	100
Trichloroethane, 1,1,1-	ug/L	0.5	0.53	0.5	0.5	0.5	n/a	ND	19	18	94.7
Trichloroethane, 1,1,2-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trichloroethylene	ug/L	0.5	0.59	0.5	0.98	0.55	0.1	ND	19	6	31.6
Trichlorofluoromethane	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trichloropropane, 1,2,3-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trihalomethanes (unspecified mix)	ug/L	0.5	1.01	0.65	1.49	1	0.2	1	10	0	0
Trimethylbenzene, 1,2,4-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Trimethylbenzene, 1,3,5-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Vinyl acetate	ug/L	1	BRL	ND	ND	ND	n/a	ND	2	2	100
Vinyl chloride	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100

Explanation

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Report Date: 2/3/2022

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Organic Ground Water Well Summary Report

System Name: **Urbana Wellfield-Old Troy Pike** Well Num: **8** Ambient Well ID: **39CHA00109**
 Status: **Active18Cycle** OEPA District: **SWDO** County: **Champaign**
 Lith. Open Section: **USG** Major Aquifer: **Sand and Gravel** Aquifer Name: **MadRiver** Well Log #: **332299**
 Sample Date Range **5/22/1996 to 10/6/2021** Depth (ft): **63** Casing Length (ft): **30**



Volatile Organic Compounds, USEPA Method 524.2

	Units	Report Limit	Mean	Min	Max	Median	Std. Dev.	Latest Sample	Total	ND	% ND
Xylene, o-	ug/L	0.5	BRL	ND	ND	ND	n/a	ND	19	19	100
Xylenes, m- & p- Mix	ug/L	1	BRL	ND	ND	ND	n/a	ND	19	19	100

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Explanation

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Report Date: 2/3/2022

**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.

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.