



September 5, 2024

Ms. Sharon Svitek
Environmental Program Manager
Bureau of Waste Management
Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

Dear Ms. Svitek:

Subject: 2023 Annual Groundwater and Surface Water Monitoring Report
Yukon Facility
MAX Environmental Technologies, Inc.
Residual Waste Permit No. 301071
CEC Project 170-822.0686

On behalf of Max Environmental Technologies, Inc., Civil & Environmental Consultants, Inc. is submitting the enclosed 2023 Annual Groundwater and Surface Water Monitoring Report. If you have any questions regarding this report, please feel free to contact one of the undersigned at (412) 429-2324.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Robert A. Eaton
Principal

Mark Orzechowski, P.G.
Principal

Enclosures:

cc: Matthew Barch, PADEP
Ken Interval, MAX

**2023 ANNUAL GROUNDWATER AND SURFACE WATER
MONITORING REPORT**

**YUKON FACILITY
WESTMORELAND COUNTY, PENNSYLVANIA
PERMIT NO. 301071**

Prepared For:



**MAX ENVIRONMENTAL TECHNOLOGIES, INC.
PITTSBURGH, PENNSYLVANIA**

Prepared By:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
PITTSBURGH, PENNSYLVANIA**

CEC Project 170-822.0687

September 5, 2024



Civil & Environmental Consultants, Inc.

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1.0 INTRODUCTION AND BACKGROUND

1.1 INTRODUCTION

This report presents the results of groundwater and surface-water monitoring performed at the MAX Environmental Technologies (MAX) Yukon Facility. Cribbs & Associates, Inc. performed the monitoring activities on behalf of MAX. The permitted monitoring program includes 28 groundwater monitoring wells, three recovery wells, three residential wells, two mine discharges, seven surface water monitoring points, and eleven leachate monitoring points. The monitoring network is shown on Figure 1 and summarized in Table 1. Well construction details for monitoring wells are summarized in Table 2.

Sample collection, handling, and analysis were performed in general accordance with the Standard Operating Procedures (SOPs) and alternative sampling method for low-yielding wells presented in the June 11, 2011 Water Quality Monitoring Plan (WQMP). Analytical parameters are listed on Table 3. Groundwater and surface water samples for metals analysis are analyzed for both total (unfiltered) and dissolved (field-filtered) metals.

1.2 BACKGROUND

The Yukon facility is located in South Huntingdon Township, Westmoreland County, Pennsylvania (Figure 1). The site was strip mined and deep mined in the 1950s and early 1960s to extract the Pittsburgh coal. The deep mines were the Magee Mine and the Klondike Mine. After coal mining, Mill Service, Inc. (Mill Service) operated the facility for the treatment and disposal of industrial wastes since 1964.

The wastes originally managed at the facility included inorganic wastewater sludges, dusts, and debris generated from steel and glass manufacturing, electroplating, and other industries. Historically, the facility included five waste disposal units as summarized below:

- Impoundment No. 1 – closed and vegetated in 1972,

- Impoundment No. 2 – closed and vegetated in 1974,
- Impoundment No. 3 – closed and vegetated in 1976,
- Impoundment No. 4 – clean closure in 1989, and
- Impoundment No. 5 –operated from 1977 through 1985 and closed in 1990.

In 2002, Mill Service changed its corporate name to MAX Environmental Technologies, Inc. (MAX) and in 2017 MAX was sold to the current owner.

MAX accepts hazardous and residual wastes at the Yukon facility under a hazardous waste permit (Hazardous Waste Permit No. PAD004835146) and a residual solid waste permit (Residual Waste Permit No. 301071). The hazardous waste is processed, tested, and disposed as residual waste in Landfill No. 6, which was constructed in 1987 with a liner and leak detection zone (LDZ). Landfill No. 6 is the only active waste disposal unit currently operating at the facility. Groundwater at the facility is monitored under the residual solid waste permit.

The Facility-Wide Groundwater Assessment Report dated July 13, 2020 set forth the abatement standards and points of compliance at the Yukon facility. The point-of-compliance wells are highlighted in blue in Figure 1. The groundwater abatement standards are summarized on Table 4 and correspond to the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) residential, used-aquifer Medium Specific Concentrations (MSCs) for aquifers with total dissolved solids (TDS) concentrations $\leq 2,500$ milligrams per liter (mg/L). 25 Pa. Code § 289.267 allows the operator of a residual waste impoundment to demonstrate compliance with a background standard if groundwater abatement is required. In the event that groundwater monitoring at the Yukon site indicates that use of a background standard(s) is warranted, a background standard(s) may be developed following accepted statistical methods.

In the 2nd Quarter 2021, PADEP approved the June 11, 2021 WQMP, which is currently in effect.

2.0 EVALUATION OF WATER MONITORING DATA

Time-trend graphs for each monitoring point are provided in Appendix A and are discussed in the following sections. Graphed parameters include: dissolved arsenic, dissolved barium, chloride, nitrate, sulfate, and total dissolved solids (TDS). Non-detect results were plotted at the reporting limit.

MAX began implementing the revised WQMP in the 2nd Quarter 2021. The revised plan added several monitoring points and analytical parameters. Therefore, several monitoring points may have limited data available for the graphed parameters and discussions of trends may be premature.

Tabulated data from 2023 are presented in Appendix B.

2.1 LEACHATE QUALITY

Meaningful trends are difficult to determine because limited data are available for many of the graphed parameters at the leachate sample points, due to the reasons noted above and because some locations do not have consistent flow.

Impoundment 3 Seep: No significant trends.

Impoundment 5 Blanket Drain: No significant trends.

Impoundment 5 Bench Drain: This location is often dry and no trends are evident.

Landfill 6 Blanket Drain: Sulfate and TDS are increasing. Other graphed parameters fluctuate greatly.

Landfill 6 LDZ: Arsenic is increasing. Concentrations of other graphed parameters fluctuate greatly.

Landfill 6 LCS: No significant trends.

Township Road Drain: Concentrations of the graphed parameters fluctuate greatly.

Township Road Drain Tank: No significant trends.

North Toe Tank: Chloride, TDS, and sulfate concentrations appear to be decreasing.

East Toe Tank: Chloride, TDS, and sulfate concentrations have recently decreased.

South Toe Tank: No significant trends.

2.2 SURFACE WATER QUALITY

S-A: TDS and sulfate concentrations decreased in 2023.

S-B: No significant trends.

S-C: Chloride concentrations may be increasing.

S-D: No significant trends.

S-E: Chloride concentrations increased in the latter part of 2023.

S-F: No significant trends.

S-H: Concentrations of barium and TDS increased.

2.3 MINE DISCHARGES

MD-A: No flow has been observed and no samples have been collected.

MD-B: No flow has been observed and no samples have been collected.

2.4 RESIDENTIAL WELLS

Gardner: The property owner has not granted access; no samples have been collected since 2015.

Kiselich: No significant trends.

Reinstadler: No significant trends.

2.5 REDSTONE COAL

2.5.1 Monitor-Only Wells

RC-1: Chloride and sulfate concentrations increased in the 4th Quarter 2023.

RC-2: Sulfate concentrations spiked in 2023, but have since decreased.

RC-5: No samples were collected in 2023 because the well was dry.

W-8: No significant trends.

2.5.2 Compliance Wells

RC-6A: No significant trends. None of the monitored constituents in compliance well RC-6A were detected at concentrations greater than abatement standards (Appendix B).

W-2: No significant trends. With the exception of the manganese concentration in the 4th Quarter 2023 (0.755 mg/L), none of the monitored constituents in compliance well W-2 were detected at concentrations greater than abatement standards (Appendix B). The manganese concentrations

will continue to be assessed in the next annual report to determine if manganese is present at a statistically significant level greater than the abatement standard.

2.6 PITTSBURGH COAL

2.6.1 Monitor-Only Wells

PW-1: Chloride and nitrate concentrations fluctuate with no identifiable trends.

PW-3: Chloride and nitrate concentrations fluctuate. Nitrate concentrations increased in the latter half of 2023.

PC-1: Sulfate concentrations have been increasing but are within the range of historical results.

PC-2: Sulfate concentrations have been increasing but are within the range of historical results.

PC-5: No data available; well is installed within a coalmine outside the limits of the mine pool and is typically dry.

PC-7: No data available; well is installed within a coalmine outside the limits of the mine pool and is typically dry.

PC-8: TDS has increased. The other parameters fluctuate with no identifiable trends.

SP-2: Barium and sulfate concentrations increased in 2023.

SP-3: TDS is decreasing. The sulfate concentration increased in the 4th Quarter 2023.

2.6.2 Compliance Wells

PW-2: No significant trends. Chloride and nitrate are present at concentrations less than abatement standards.

PC-3: Chloride, nitrate, and TDS concentrations have been increasing. Several dissolved metals (arsenic, cadmium, iron, lead, manganese, and nickel), ammonia, chloride, nitrate, and sulfate were reported at concentrations greater than the abatement standards (i.e. Act 2 residential, used-aquifer MSCs) (Appendix B). The well monitors a mine pool and the concentrations would meet Act 2 MSCs for a non-use aquifer.

PC-9: Sulfate is increasing and is present at concentrations greater than its Act 2 residential, used-aquifer MSC (Appendix B). The well monitors a mine pool and the concentrations would meet the Act 2 MSC for a non-use aquifer.

MW-702-PC: No recent trends. Iron, manganese, nickel, and sulfate concentrations were identified at concentrations greater than Act 2 residential, used-aquifer MSCs. The well monitors a mine pool and the concentrations would meet the Act 2 MSC for a non-use aquifer.

MW-704-PC: The well is damaged and could not be sampled.

2.7 PITTSBURGH LIMESTONE

2.7.1 Monitor-Only Wells

W-4: No significant trends.

W-5: No significant trends.

W-9: No significant trends.

W-11: Barium concentrations decreased in 2023.

W-12: No significant trends.

W-13: The barium concentration in the 3rd Quarter 2023 was greater than typical and appears to be anomalous. Sulfate concentrations continue to decrease.

MW-701-LS: Barium concentrations appear to be increasing.

2.7.2 Compliance Wells

W-6: No discernable trends. Consistent with observations made in the April 2020 Groundwater Assessment Report, chloride was present at concentrations that are greater than the MSC (Appendix B). As indicated in the Groundwater Assessment Report, W-6 is located within the point of compliance for demonstrating attainment of the MSC for chloride, which is a secondary contaminant. Additional downgradient water quality data at the property line (point of compliance) are not available.

W-10: No discernable trends. Consistent with observations made in the April 2020 Groundwater Assessment Report, fluoride is present at concentrations that are greater than the MSC (Appendix B). As indicated in the Groundwater Assessment Report, the fluoride is sourced from the limestone via dissolution of fluoride-bearing minerals, and is not attributed to groundwater degradation caused by the facility.

MW-702-LS: Arsenic and TDS concentrations fluctuate. Chloride is increasing. Fluoride is present at concentrations that are greater than the MSCs (Appendix B). As indicated in the Groundwater Assessment Report, MW-702-LS does not display impacts from the facility and the fluoride is sourced from the limestone via dissolution of fluoride-bearing minerals.

MW-704-LS: Barium concentrations may be increasing. None of the tested constituents in compliance well MW-704-LS were present at concentrations greater than abatement standards.

3.0 CLOSING

No significant changes in water quality that are indicative of newly identified impacts occurred during 2023. In addition, no changes in water quality were observed that would alter the conclusions of the 2020 Groundwater Assessment Report.

4.0 LIMITATIONS

This report has been prepared utilizing chemical analytical data as collected and reported to us by others, and in keeping with accepted standards of practice and using CEC's professional judgment. Chemical data presented in this report are applicable to the location, time of sample collection, and the parameters analyzed. Chemical conditions may change with time. Reported conditions may not represent current or future conditions. Chemical concentrations between sampling points may differ.

5.0 SIGNATURES

By affixing my seal to this, I do hereby certify to the best of my knowledge, information, and belief that the information contained in this report is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

Mark L. Orzechowski
P.G. License Number 003964
Expiration Date 9/30/2025

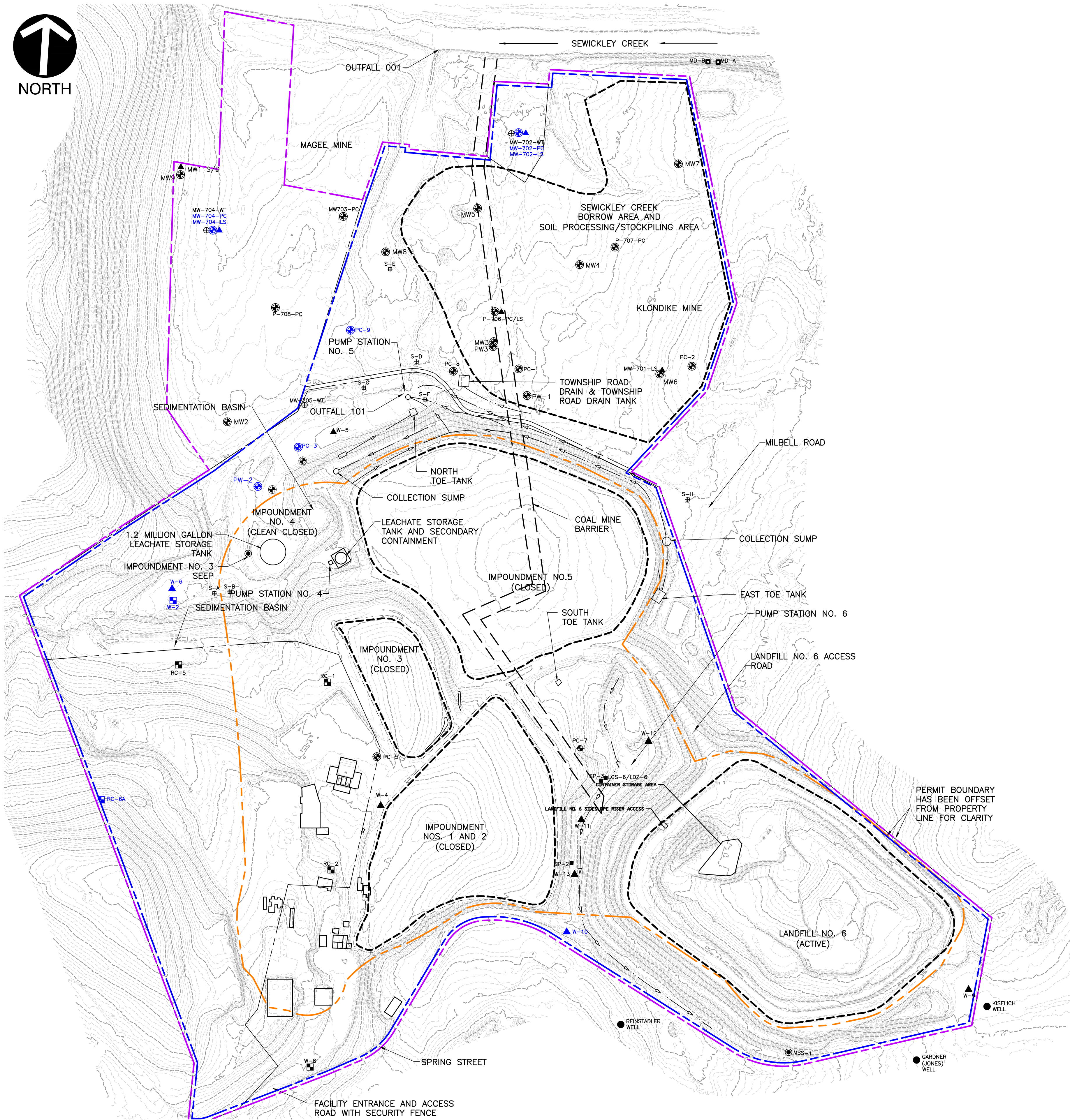


Signature:

A handwritten signature in blue ink, appearing to read "Mark L. Orzechowski", written over a light blue horizontal line.

Date: September 5, 2024

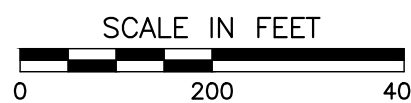
FIGURE



REFERENCE

1. PROPERTY BOUNDARY FROM DRAWING "BOUNDARY SURVEY MADE FOR MAX ENVIRONMENTAL TECHNOLOGIES, INC." DRAWING NO. MAX-PA18-YO01 PREPARED BY ENERCON, DATED 7/17/18.
2. AERIAL SURVEY CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON APRIL 26, 2018.
3. EXISTING FACILITY SITE BOUNDARY TAKEN FROM LIMIT OF WASTE MANAGEMENT AREA FROM THE HAZARDOUS WASTE PERMIT RENEWAL APPLICATION (2001), FIGURE 1, DETAILED SITE PLAN.
4. EXISTING REDISUAL WASTE PERMIT BOUNDARY TAKEN FROM THE APPLICATION-DRAWING SET; MAJOR PERMIT MODIFICATION; VERTICAL INCREASE OF IMPONDMENT NO. 6; MAX ENVIRONMENTAL TECHNOLOGIES, INC. - YUKON FACILITY; SOUTH HUNTINGDON TWP., WESTMORELAND CO., PENNSYLVANIA; PERMITNO. 301071.

FACILITY SITE PLAN



REVISION RECORD		
NO	DATE	DESCRIPTION
SUBMITTAL RECORD		
NO	DATE	DESCRIPTION

LEGEND	
-----1040-----	EXISTING INDEX CONTOUR
-----	EXISTING INTERMEDIATE CONTOUR
-----	APPROXIMATE PROPERTY LINE
-----	EXISTING RESIDUAL WASTE PERMIT BOUNDARY
-----	EXISTING HAZARDOUS WASTE FACILITY SITE BOUNDARY
MD-A	MINE DISCHARGE LOCATION
PC-1	PITTSBURGH COAL MONITORING WELL
RC-2	REDSTONE COAL MONITORING WELL
W-5	PITTSBURGH LIMESTONE MONITORING WELL
KISELICH WELL	RESIDENTIAL WELL
MW703-WT	WATER TABLE MONITORING WELL
SP-2	MINE SPOIL WELL
MSS-1	SPRING (APPROXIMATE LOCATION)
	POINT OF COMPLIANCE MONITORING WELL



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MAX ENVIRONMENTAL TECHNOLOGIES, INC.
YUKON FACILITY
SOUTH HUNTINGDON TOWNSHIP,
WESTMORELAND COUNTY, PENNSYLVANIA

DRAWN BY: TAF CHECKED BY: MLO APPROVED BY: RAE
DATE: 10/20/2020 DWG SCALE: AS SHOWN PROJECT NO: 170-822.0695

SITE PLAN

1

TABLES

Table 1 - Summary of Monitoring Points
MAX Yukon Landfill

Monitoring Point	Upgradient/ Downgradient	Purpose	Compliance Monitoring Point?	Monitored Stratigraphic Zone
<u>Monitoring Wells</u>				
RC-1	Downgradient	Water Quality	No	Redstone Coal
RC-2	Downgradient	Water Quality	No	Redstone Coal
RC-5	Downgradient	Water Quality	No	Redstone Coal
RC-6A	Downgradient	Water Quality	Yes	Redstone Coal
W-2	Downgradient	Water Quality	Yes	Redstone Coal
W-8	Upgradient	Water Quality	No	Redstone Coal
PC-1	Downgradient	Water Quality	No	Pittsburgh Coal
PC-2	Upgradient	Water Quality	No	Pittsburgh Coal
PC-3	Downgradient	Water Quality	Yes	Pittsburgh Coal
PC-5	Downgradient	Water Quality	No	Pittsburgh Coal
PC-7	Downgradient	Water Quality	No	Pittsburgh Coal
PC-8	Downgradient	Water Quality	No	Pittsburgh Coal
PC-9	Downgradient	Water Quality	Yes	Pittsburgh Coal
SP-2	Downgradient	Water Quality	No	Pittsburgh Coal/Mine Spoil
SP-3	Downgradient	Water Quality	No	Pittsburgh Coal/Mine Spoil
MW-702-PC	Cross-Gradient	Water Quality	Yes	Pittsburgh Coal
MW-704-PC	Downgradient	Water Quality	Yes	Pittsburgh Coal
W-4	Downgradient	Water Quality	No	Pittsburgh Limestone
W-5	Downgradient	Water Quality	No	Pittsburgh Limestone
W-6	Downgradient	Water Quality	Yes	Pittsburgh Limestone
W-9	Upgradient	Water Quality	No	Pittsburgh Limestone
W-10	Downgradient	Water Quality	Yes	Pittsburgh Limestone
W-11*	Downgradient	Water Quality	No	Pittsburgh Limestone
W-12	Downgradient	Water Quality	No	Pittsburgh Limestone
W-13	Downgradient	Water Quality	No	Pittsburgh Limestone
MW-701-LS	Upgradient	Water Quality	No	Pittsburgh Limestone
MW-702-LS	Crossgradient	Water Quality	Yes	Pittsburgh Limestone
MW-704-LS	Downgradient	Water Quality	Yes	Pittsburgh Limestone
<u>Recovery Wells</u>				
PW-1	Downgradient	Water Quality	No	Pittsburgh Coal
PW-2	Downgradient	Water Quality	Yes	Pittsburgh Coal
PW-3	Downgradient	Water Quality	No	Pittsburgh Coal
<u>Residential Wells</u>				
Gardner (Jones)	Upgradient	Water Quality	No	Unknown
Kiselich	Upgradient	Water Quality	No	Unknown
Reinstadler	Cross-Gradient	Water Quality	No	Unknown
<u>Mine Discharges</u>				
MD-A	Downgradient	Water Quality	No	Pittsburgh Coal Mine Discharge
MD-B	Downgradient	Water Quality	No	Pittsburgh Coal Mine Discharge
<u>Surface Water</u>				
S-A	Downgradient	Water Quality	No	Impoundment No. 3
S-B	Downgradient	Water Quality	No	Impoundment No. 3
S-C	Downgradient	Water Quality	No	Impoundment No. 5
S-D	Downgradient	Water Quality	No	Impoundment No. 5
S-E	Downgradient	Water Quality	No	Impoundment No. 5
S-F	Downgradient	Water Quality	No	Impoundment No. 5
S-H	Downgradient	Water Quality	No	Impoundment No. 5
<u>Leachate Monitoring Points</u>				
Impoundment 3 Seep	Downgradient	Leachate Detection	No	NA
Impoundment 5 Blanket Drain	Downgradient	Leachate Detection	No	NA
Impoundment 5 Bench Drain	Downgradient	Leachate Detection	No	NA
Landfill 6 Blanket Drain	Downgradient	Leachate Detection	No	NA
Landfill 6 LDZ	Downgradient	Leachate Detection	No	NA
Landfill 6 LCS	Downgradient	Leachate Detection	No	NA
Township Road Drain	Downgradient	Leachate Detection	No	NA
Township Road Drain Tank	Downgradient	Leachate Detection	No	NA
North Toe Tank	Downgradient	Leachate Detection	No	NA
East Toe Tank	Downgradient	Leachate Detection	No	NA
South Toe Tank	Downgradient	Leachate Detection	No	NA

* MAX may petition to remove after 4 quarters of monitoring

Table 2 - Monitoring Well Construction
MAX Yukon Facility

Well Name	Year Installed	Horizon	Top of Casing Elevation (famsl)	Well Depth (ft. btoc.)	Screen Length (ft.)	Well Diameter (in.)
RC-1	1985	Redstone Coal	1009	72.4	10	4
RC-2	1985	Redstone Coal	1046.54	97.2	10	4
RC-5	1985	Redstone Coal	996	83.3	10	4
RC-6A	1987	Redstone Coal	1076.72	174.3	10	4
W-2	prior to 1980	Redstone Coal	949.7	49.1	10	4
W-8	1983	Redstone Coal	1046.7	85.9	10	4
PC-1	1984	Pittsburgh Coal	929.2	60.4	10	4
PC-2	1984	Pittsburgh Coal	953.5	55.8	10	4
PC-3	1984	Pittsburgh Coal	919.4	89.3	10	4
PC-5	1984	Pittsburgh Coal	1015	155.4	10	4
PC-7	2010	Pittsburgh Coal	943	47.2	10	2
PC-8	1984	Pittsburgh Coal	912.6	55.1	10	4
PC-9	1984	Pittsburgh Coal	905.1	68.9	10	4
SP-2	1986	Pittsburgh Coal/Mine Spoil	967.38	48.5	10	4
SP-3	1986	Pittsburgh Coal/Mine Spoil	953.37	34.7	10	4
MW-702 PC	2018	Pittsburgh Coal	907.26	48.56	10	2
MW-704 PC	2018	Pittsburgh Coal	914.99	110.79	10	2
PW-1	1985	Pittsburgh Coal	926.4	59.6	Unknown	Unknown
PW-2	1985	Pittsburgh Coal	926.2	101	Unknown	Unknown
PW-3	1985	Pittsburgh Coal	921.7	59.6	Unknown	Unknown
W-4	1983	Pittsburgh Limestone	1018.3	181.1	10	4
W-5	1983	Pittsburgh Limestone	921.6	114.8	10	4
W-6	1983	Pittsburgh Limestone	951.3	170.8	10	4
W-9	1985	Pittsburgh Limestone	1026.1	35.3	10	4
W-10	1986	Pittsburgh Limestone	970.95	88.2	12	4
W-11	1986	Pittsburgh Limestone	958.04	81.5	13	4
W-12	1986	Pittsburgh Limestone	956.27	80.3	10	4
W-13	1986	Pittsburgh Limestone	964.78	86.2	12	4
MW-701 LS	2018	Pittsburgh Limestone	943.06	80.89	10	2
MW-702 LS	2018	Pittsburgh Limestone	907.84	83.52	10	2
MW-704 LS	2018	Pittsburgh Limestone	915.36	141.26	10	2

Table 3 - Monitoring Parameters
MAX Yukon Facility

PARAMETER	RATIONALE	FREQUENCY	PARAMETER	RATIONALE	FREQUENCY
Dissolved Metals (mg/l)			Total Metals (mg/l)		
Arsenic	288.254(a)(3)	Quarterly	Arsenic	288.254(a)(3)	Annually
Barium	288.254(a)(3)	Quarterly	Barium	288.254(a)(3)	Annually
Cadmium	288.254(a)(3)	Quarterly	Cadmium	288.254(a)(3)	Annually
Calcium	288.254(a)(1)	Quarterly	Calcium	288.254(a)(1)	Annually
Chromium	288.254(a)(3)	Quarterly	Chromium	288.254(a)(3)	Annually
Copper	288.254(a)(3)	Quarterly	Copper	288.254(a)(3)	Annually
Iron	288.254(a)(1)	Quarterly	Iron	288.254(a)(1)	Annually
Lead	288.254(a)(3)	Quarterly	Lead	288.254(a)(3)	Annually
Magnesium	288.254(a)(1)	Quarterly	Magnesium	288.254(a)(1)	Annually
Manganese	288.254(a)(1)	Quarterly	Manganese	288.254(a)(1)	Annually
Mercury	288.254(a)(3)	Quarterly	Mercury	288.254(a)(3)	Annually
Nickel	2020 Assessment	Quarterly	Nickel	2020 Assessment	Annually
Potassium	288.254(a)(1)	Quarterly	Potassium	288.254(a)(1)	Annually
Selenium	288.254(a)(3)	Quarterly	Selenium	288.254(a)(3)	Annually
Sodium	288.254(a)(1)	Quarterly	Sodium	288.254(a)(1)	Annually
Silver	288.254(a)(3)	Quarterly	Silver	288.254(a)(3)	Annually
Zinc	288.254(a)(3)	Quarterly	Zinc	288.254(a)(3)	Annually
General Chemistry (mg/l)					
Alkalinity, total	288.254(a)(1)	Quarterly			
Ammonia	288.254(a)(1)	Quarterly			
Bicarbonate	288.254(a)(1)	Quarterly			
Chemical Oxygen Demand	288.254(a)(1)	Quarterly			
Chloride	288.254(a)(1)	Quarterly			
Cyanide, total	2020 Assessment	Annually			
Fluoride	288.254(a)(1)	Quarterly			
Nitrate	288.254(a)(1)	Quarterly			
pH	288.254(a)(1)	Quarterly			
Phenolics	2020 Assessment	Annually			
Specific Conductance	288.254(a)(1)	Quarterly			
Sulfate	288.254(a)(1)	Quarterly			
Total Dissolved Solids	288.254(a)(1)	Quarterly			
Total Organic Carbon	288.254(a)(1)	Quarterly			
Total Organic Halogens (TOX)	288.254(a)(5)	Quarterly			
Turbidity	288.254(a)(1)	Quarterly			
Organics (ug/l)					
1,1,1-Trichloroethane	288.254(a)(4)	Annually			
1,1-Dichloroethane	288.254(a)(4)	Annually			
1,1-Dichloroethene	288.254(a)(4)	Annually			
1,2-Dibromoethane (EDB)	288.254(a)(4)	Annually			
1,2-Dichloroethane	288.254(a)(4)	Annually			
Benzene	288.254(a)(4)	Annually			
cis-1,2-Dichloroethene	288.254(a)(4)	Annually			
Ethylbenzene	288.254(a)(4)	Annually			
Methylene chloride	288.254(a)(4)	Annually			
Naphthalene	2020 Assessment	Annually			
Tetrachloroethene	288.254(a)(4)	Annually			
Toluene	288.254(a)(4)	Annually			
trans-1,2-Dichloroethene	288.254(a)(4)	Annually			
Trichloroethene	288.254(a)(4)	Annually			
Vinyl chloride	288.254(a)(4)	Annually			
Xylenes (total)	288.254(a)(4)	Annually			

Table 4 - Abatement Standards
MAX Yukon Facility

Parameter	Redstone Coal, Pittsburgh Coal and Pittsburgh Limestone	
	Abatement Standard	Basis
Metals (mg/l)		
Arsenic	0.01	MSC ⁽¹⁾
Barium	2	MSC ⁽¹⁾
Cadmium	0.005	MSC ⁽¹⁾
Chromium	0.1	MSC ⁽¹⁾
Copper	1	MSC ⁽¹⁾
Cyanide	0.2	MSC ⁽¹⁾
Iron	0.3	MSC ⁽¹⁾ /SMCL
Lead	0.005	MSC ⁽¹⁾
Manganese	0.3	MSC ⁽¹⁾
Mercury	0.002	MSC ⁽¹⁾
Nickel	0.1	MSC ⁽¹⁾
Selenium	0.05	MSC ⁽¹⁾
Silver	0.1	MSC ⁽¹⁾
Zinc	2	MSC ⁽¹⁾
General Chemistry (mg/l)		
Ammonia	30	MSC ⁽¹⁾
Chloride	250	MSC ⁽¹⁾ /SMCL
Fluoride	4	MSC ⁽¹⁾
Nitrate	10	MSC ⁽¹⁾
Phenolics	2	MSC ⁽¹⁾
Sulfate	250	MSC ⁽¹⁾ /SMCL
Organics (ug/l)		
1,1,1-Trichloroethane	200	MSC ⁽¹⁾
1,1-Dichloroethane	31	MSC ⁽¹⁾
1,1-Dichloroethene	7	MSC ⁽¹⁾
1,2-Dibromoethane (EDB)	0.05	MSC ⁽¹⁾
1,2-Dichloroethane	5	MSC ⁽¹⁾
Benzene	5	MSC ⁽¹⁾
cis-1,2-Dichloroethene	70	MSC ⁽¹⁾
Ethylbenzene	700	MSC ⁽¹⁾
Methylene chloride	5	MSC ⁽¹⁾
Naphthalene	100	MSC ⁽¹⁾
Tetrachloroethene	5	MSC ⁽¹⁾
Toluene	1,000	MSC ⁽¹⁾
trans-1,2-Dichloroethene	100	MSC ⁽¹⁾
Trichloroethene	5	MSC ⁽¹⁾
Vinyl chloride	2	MSC ⁽¹⁾
Xylenes (total)	10,000	MSC ⁽¹⁾

Footnotes:

(1) - Act 2 Residential, Used-Aquifer Medium Specific Concentration (TDS < 2,500 mg/l)

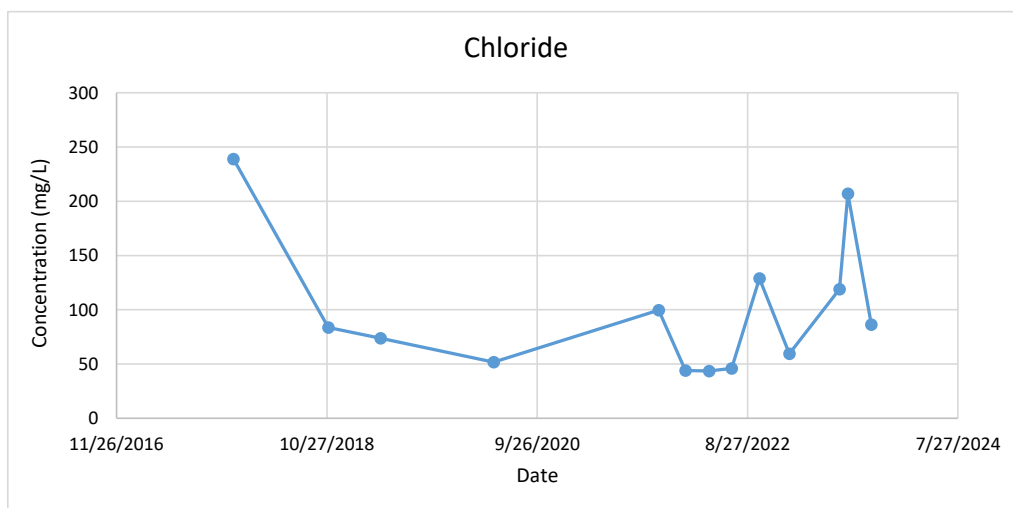
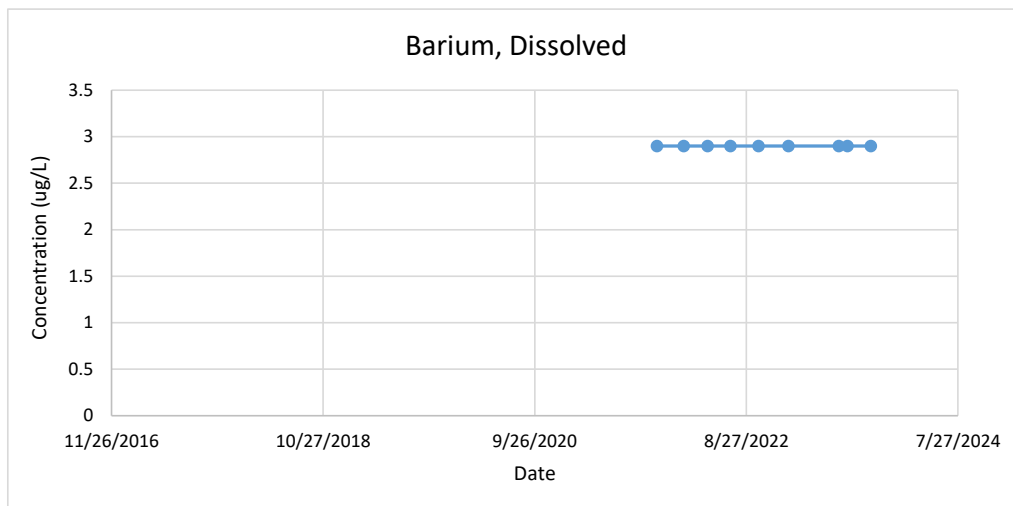
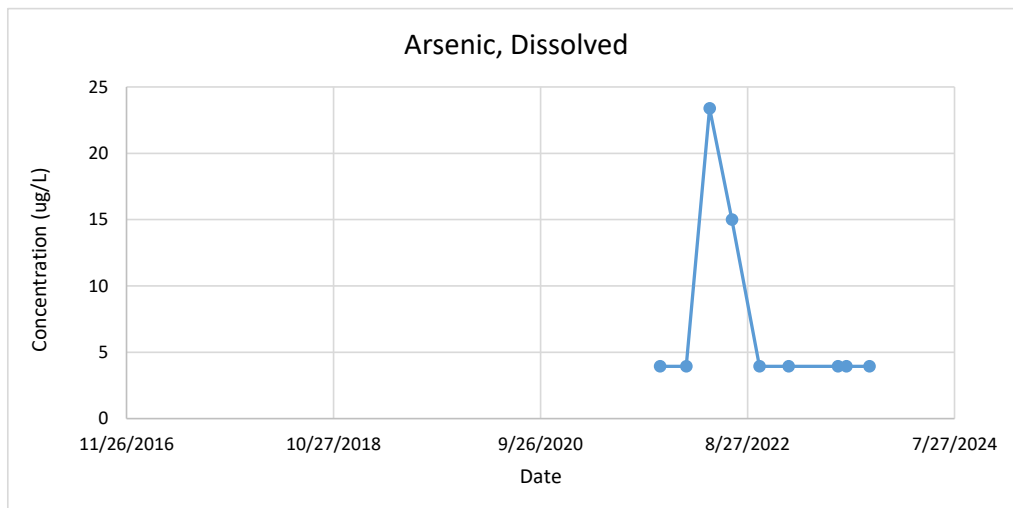
SMCL - Secondary Maximum Contaminant Level

APPENDIX A

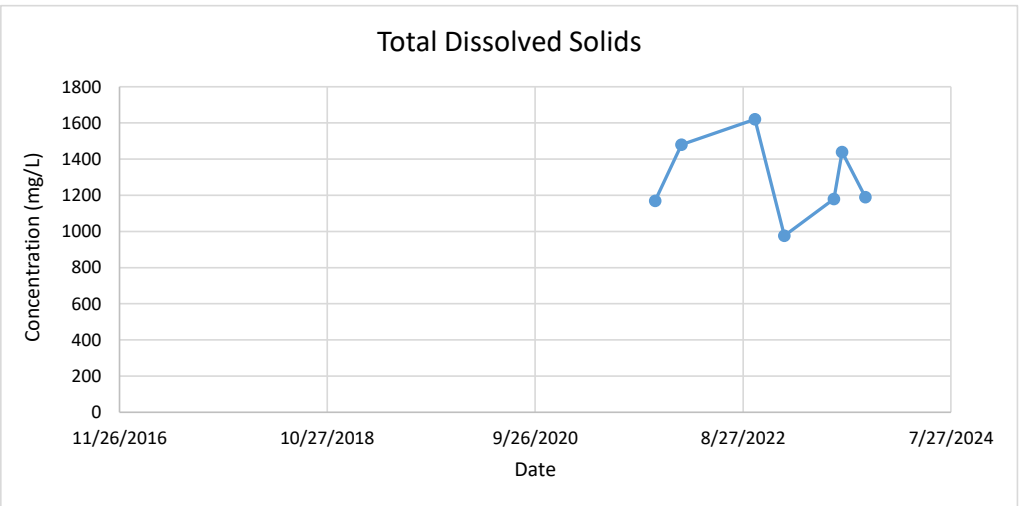
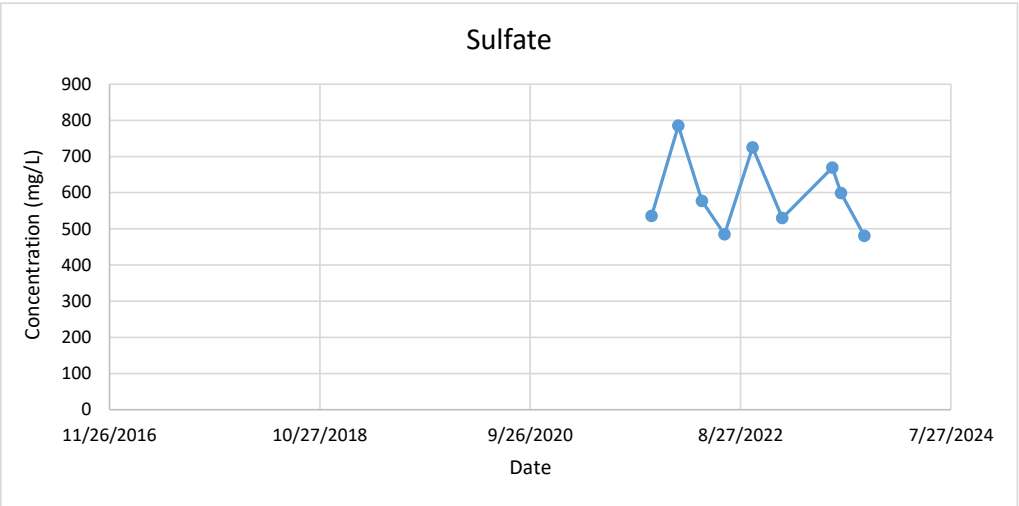
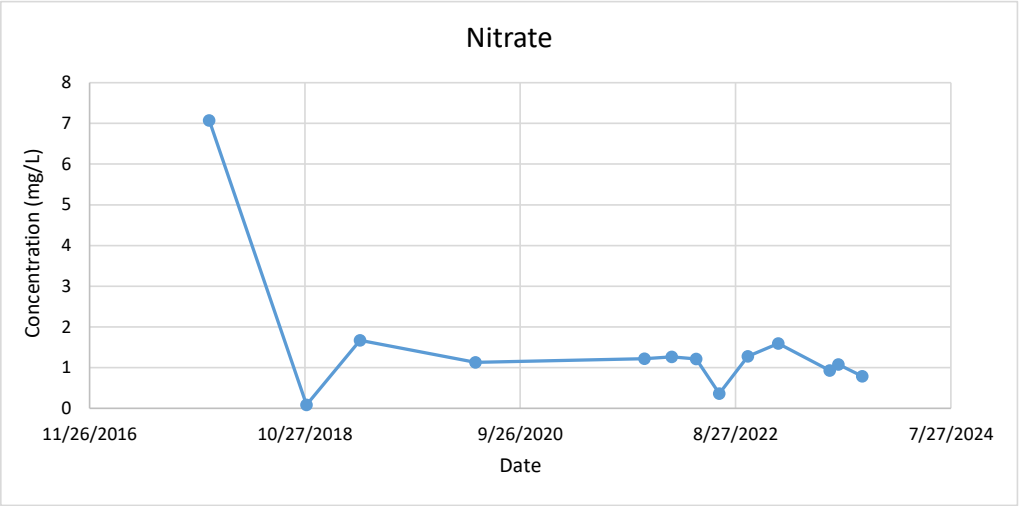
TIME-TREND GRAPHS

LEACHATE

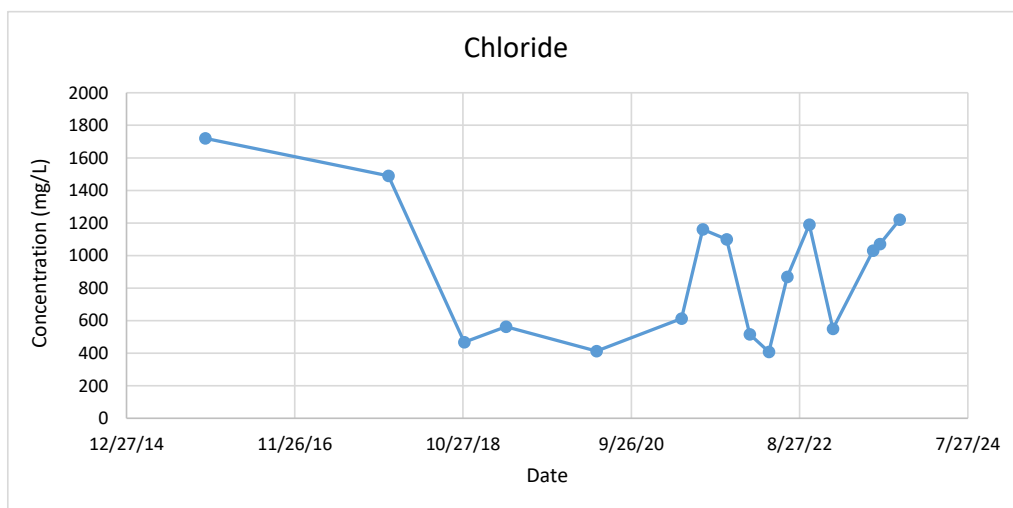
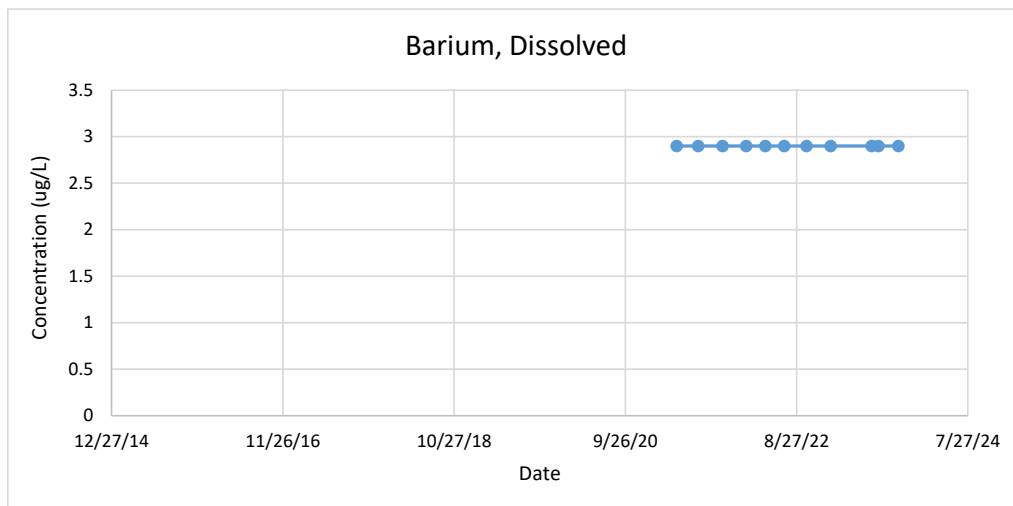
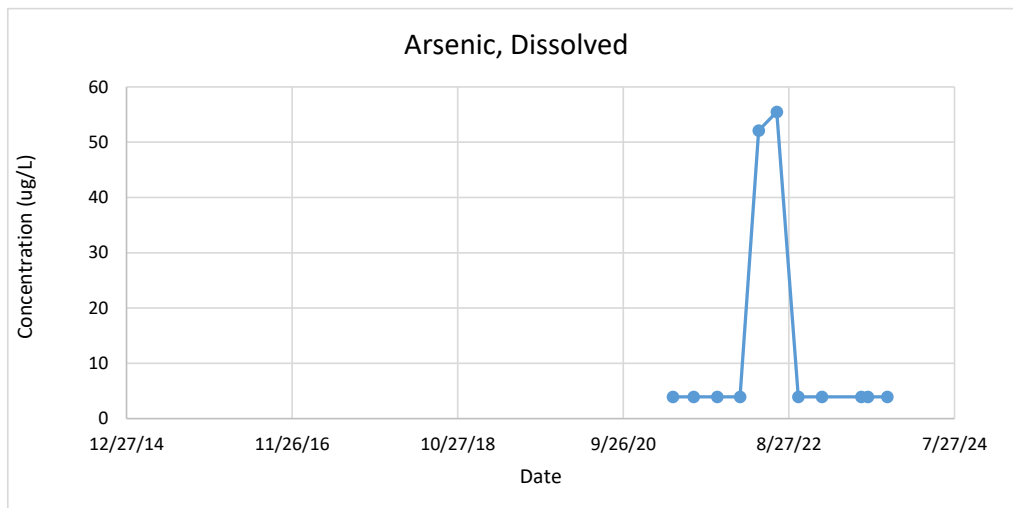
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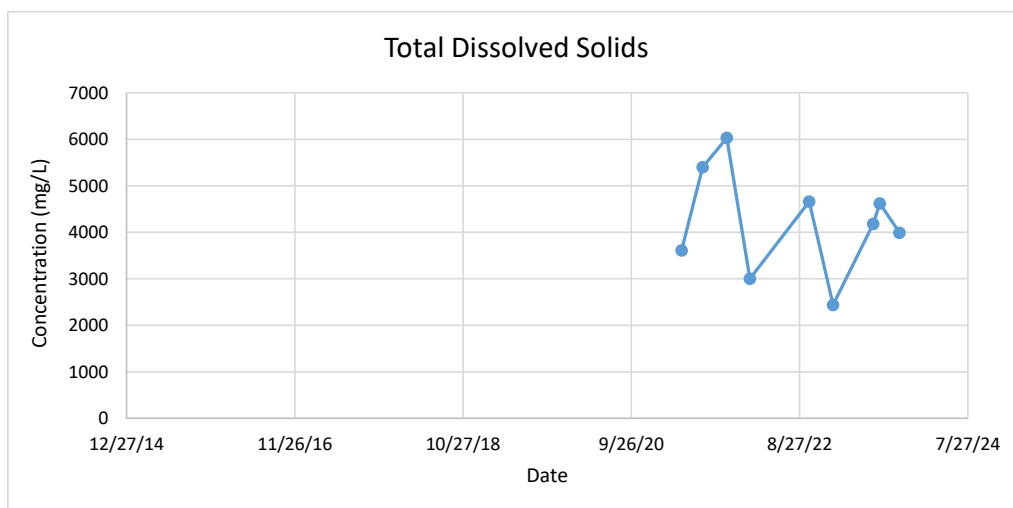
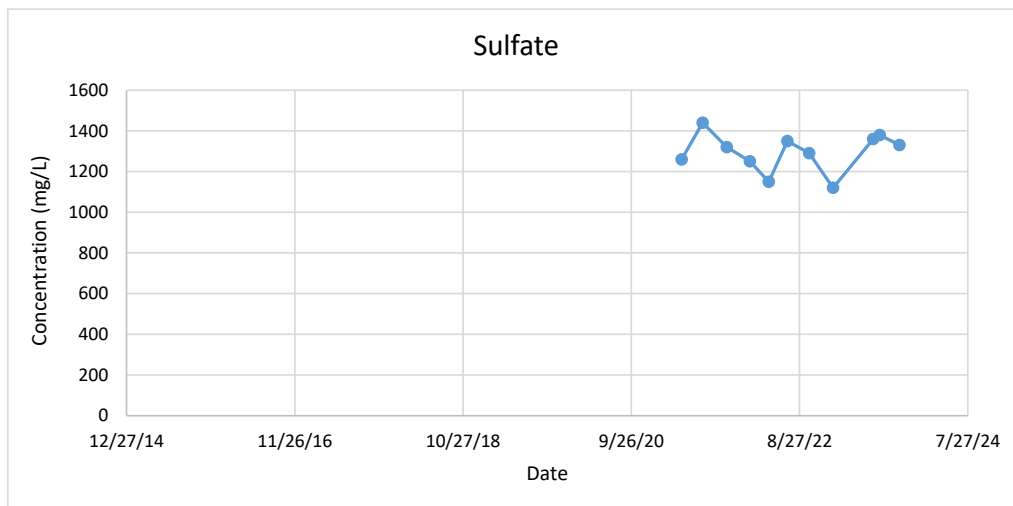
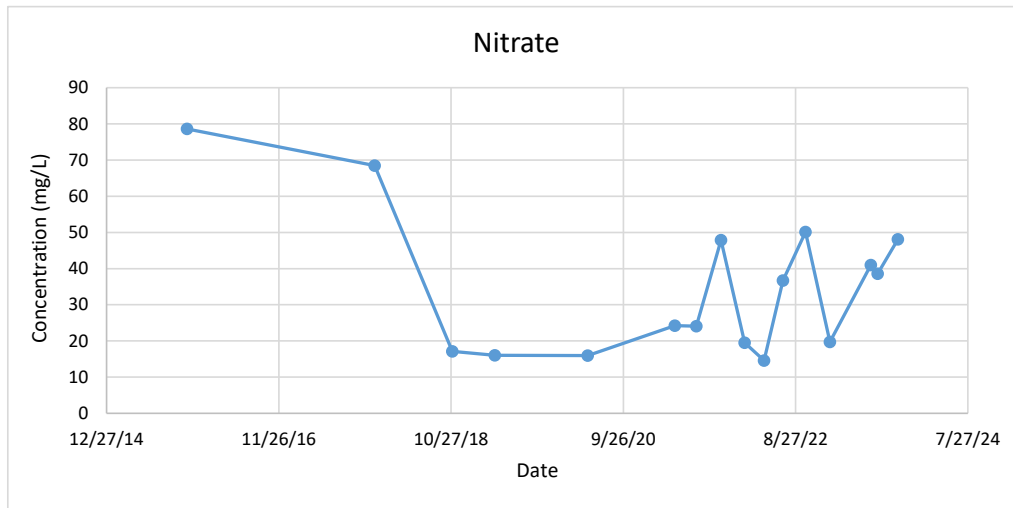
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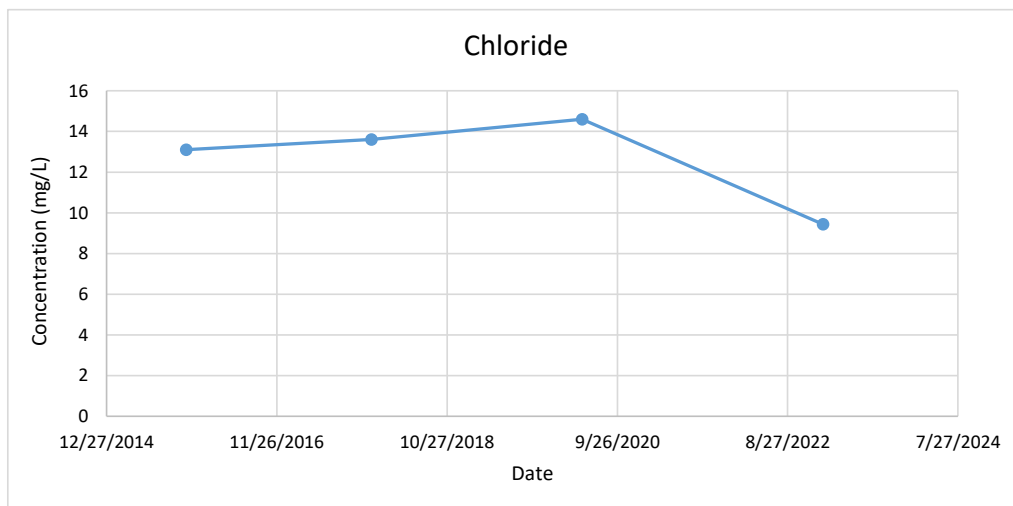
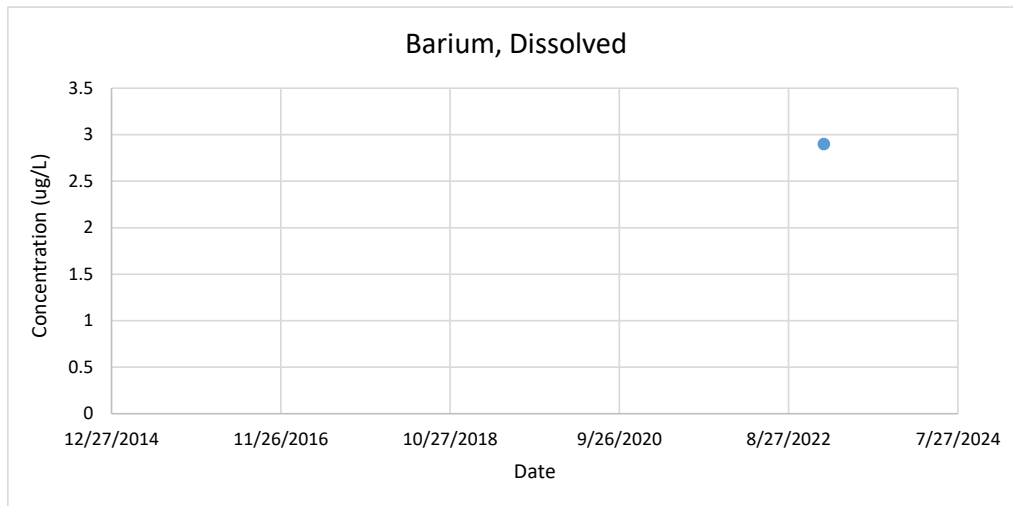
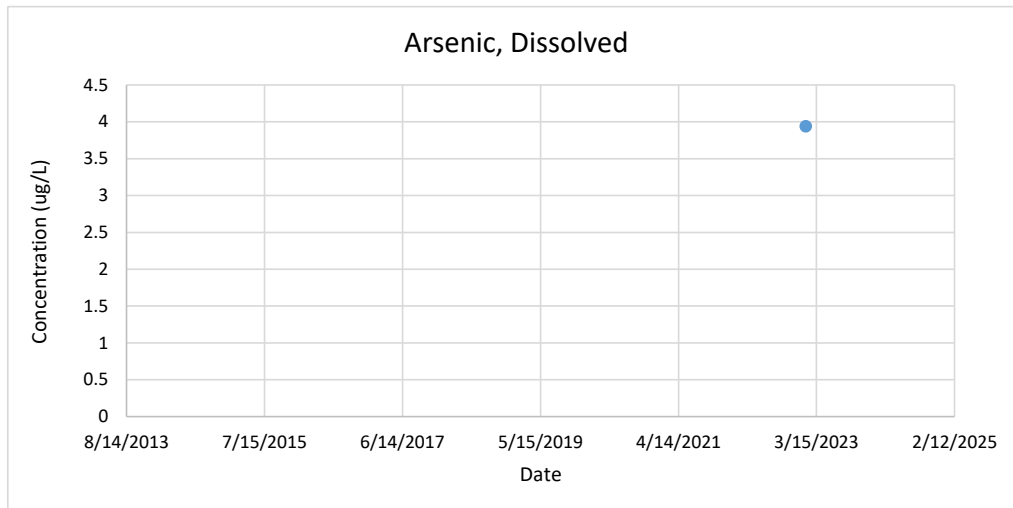
Impoundment 5 Blanket Drain



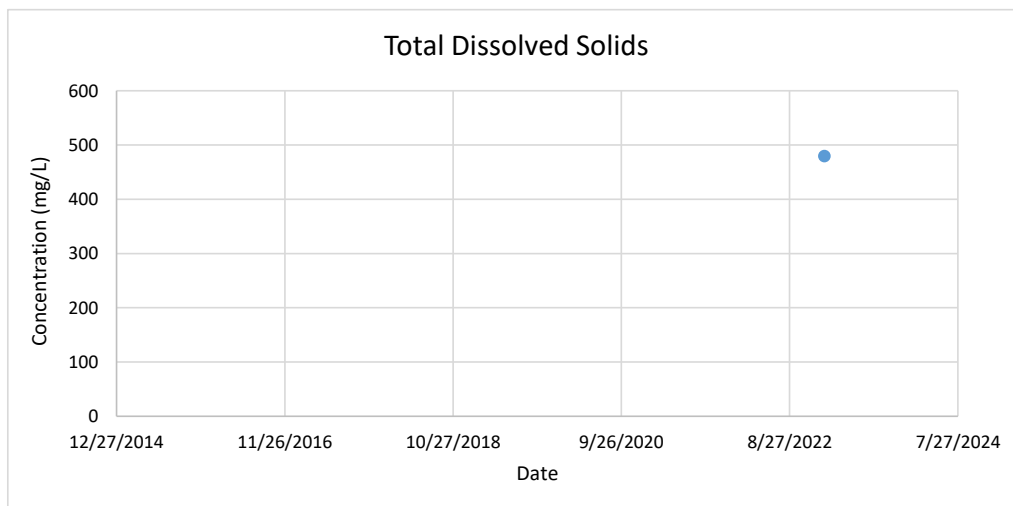
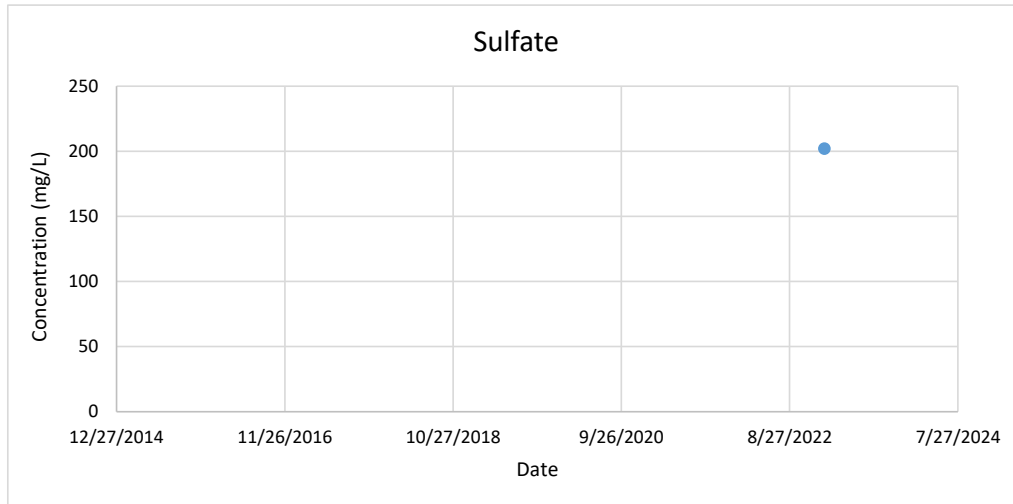
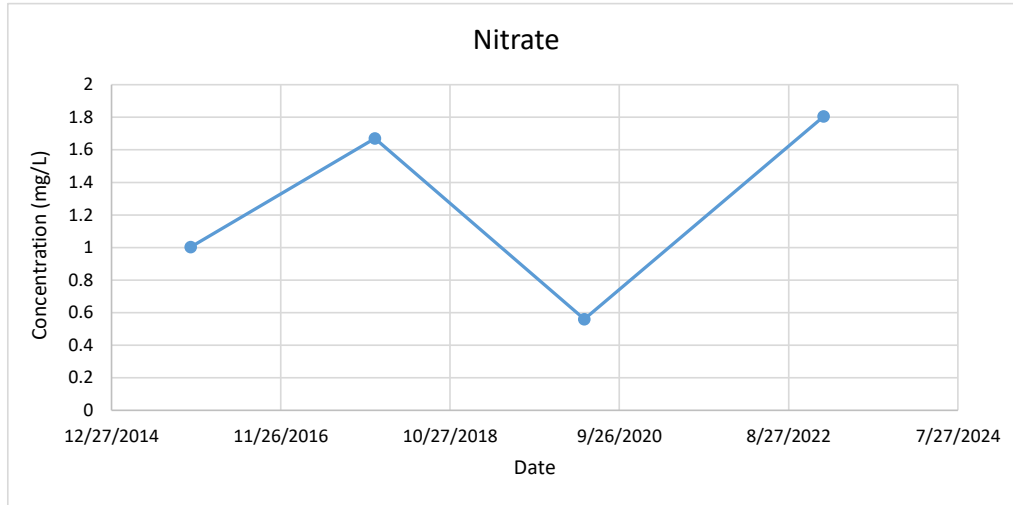
Impoundment 5 Blanket Drain



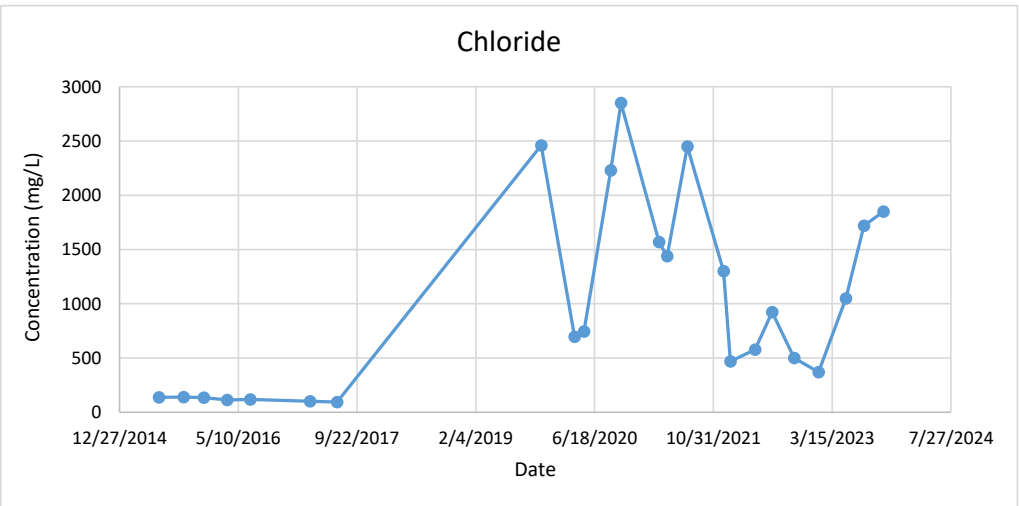
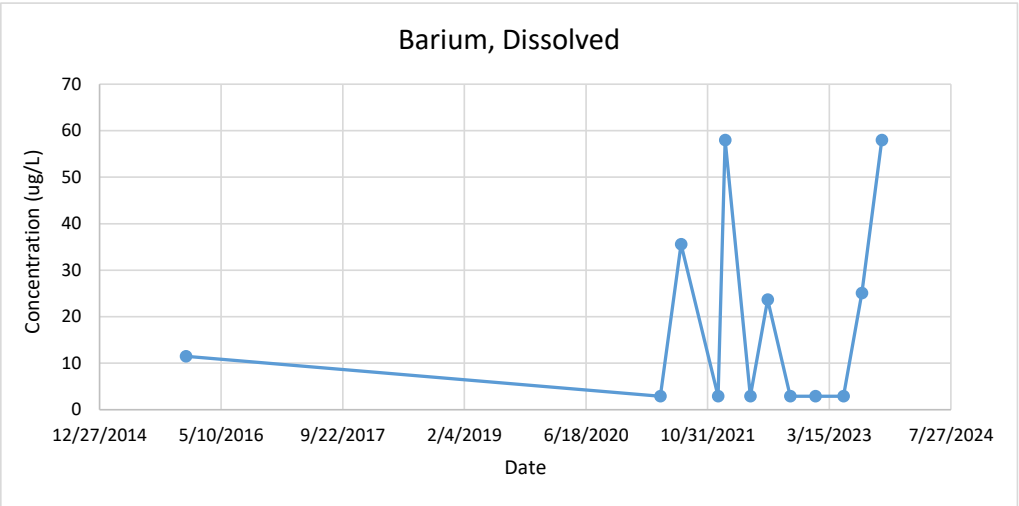
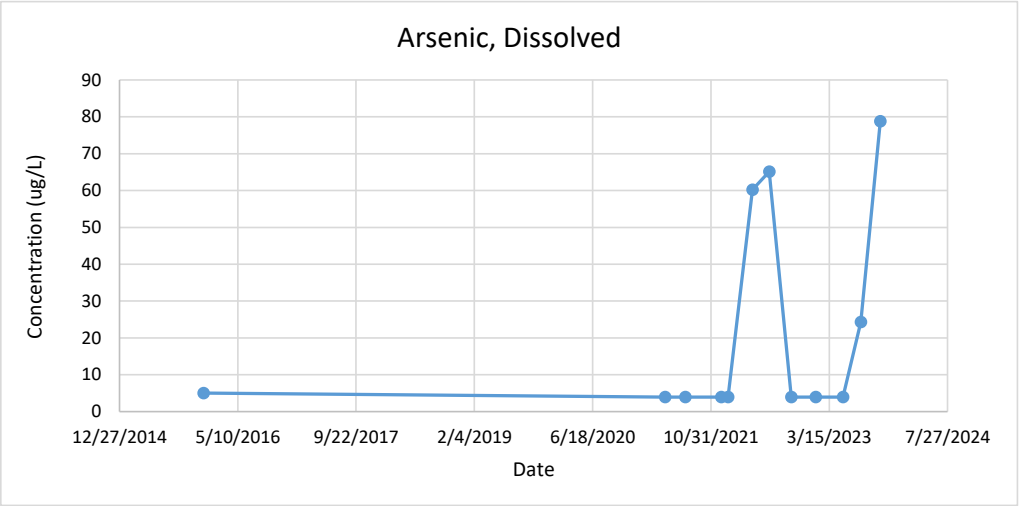
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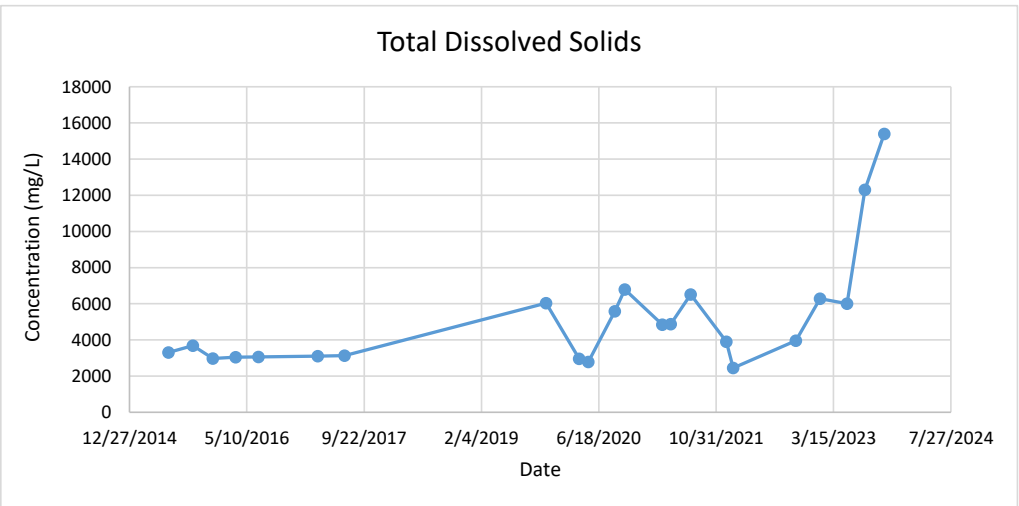
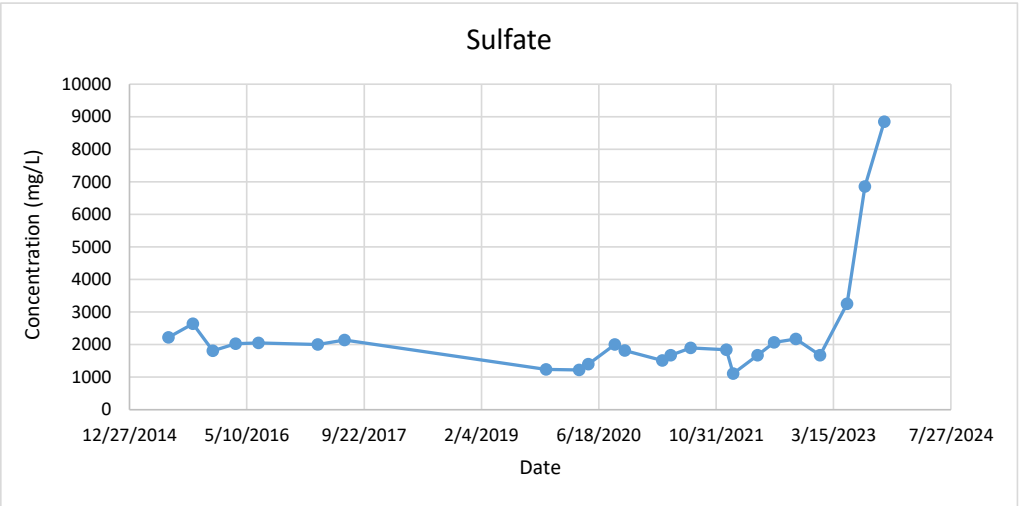
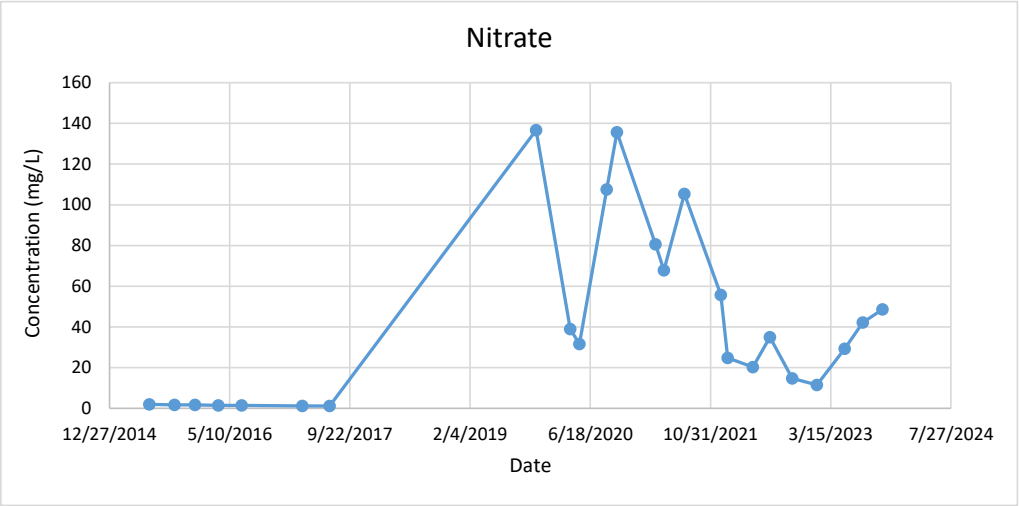
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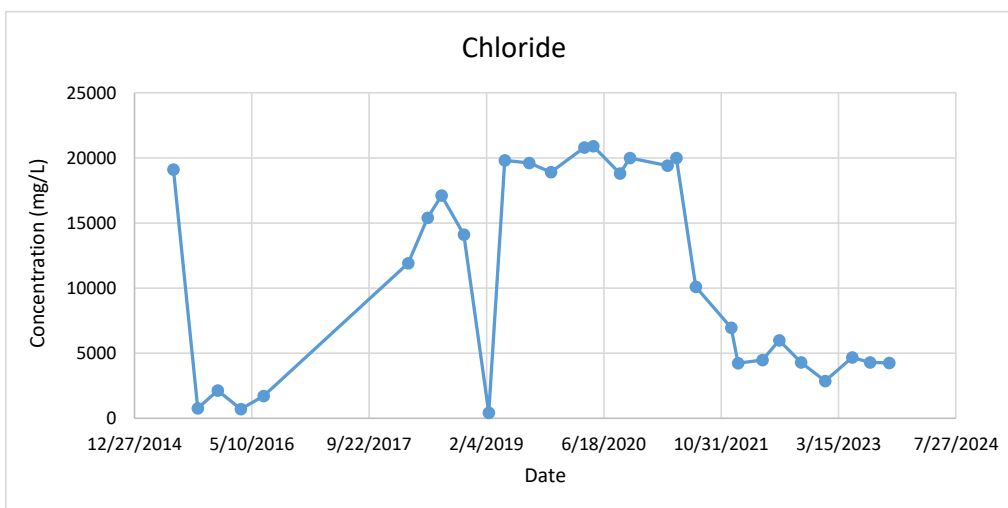
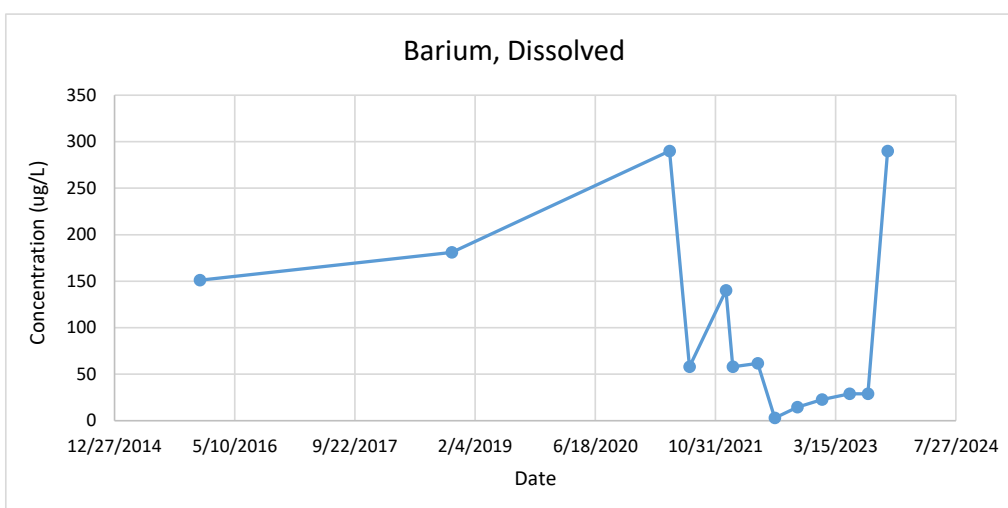
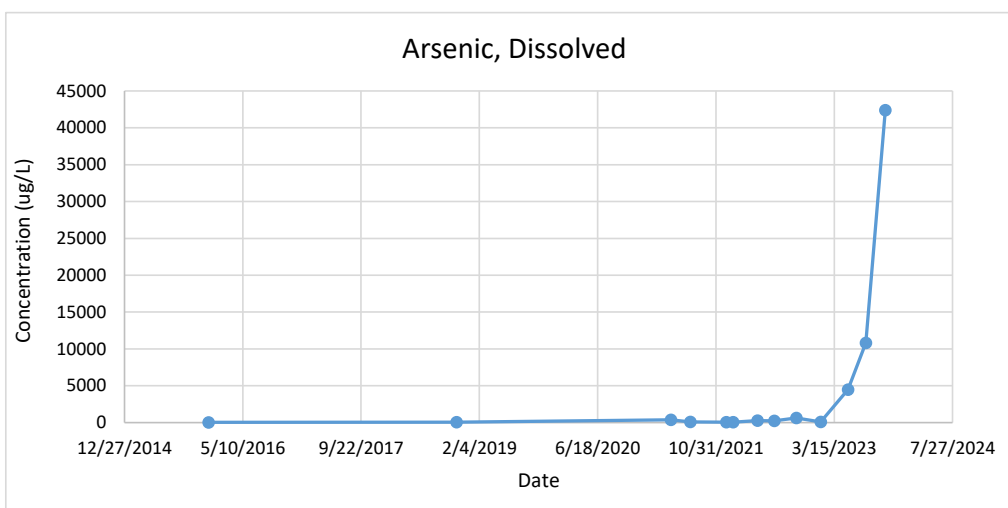
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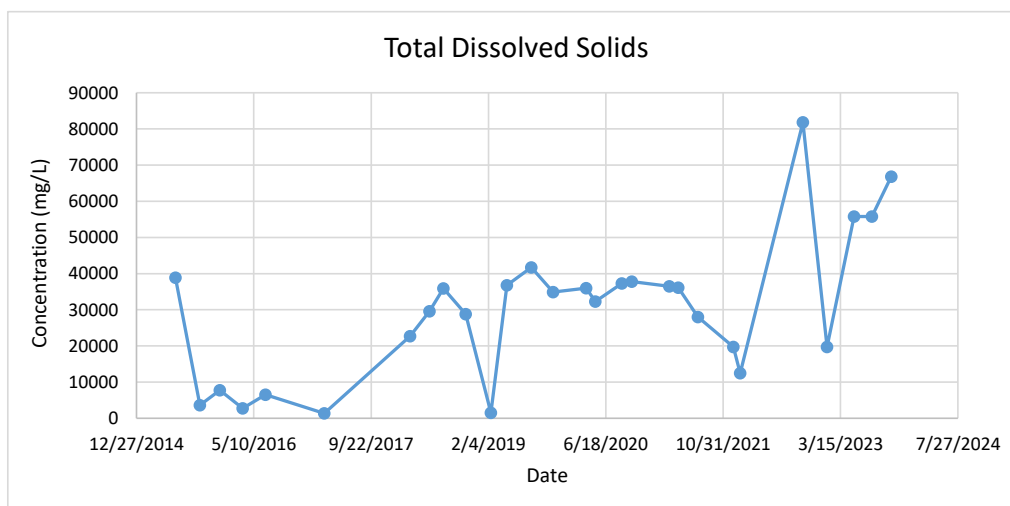
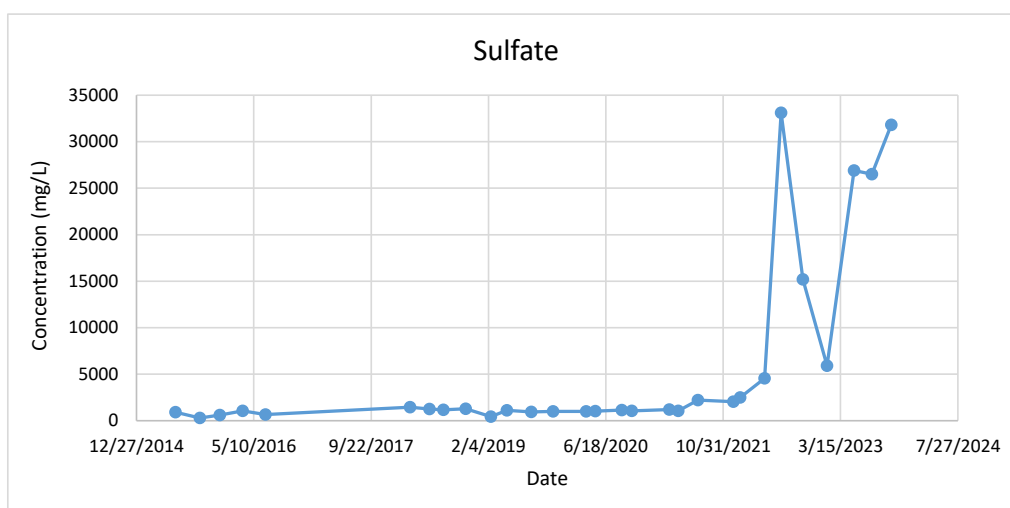
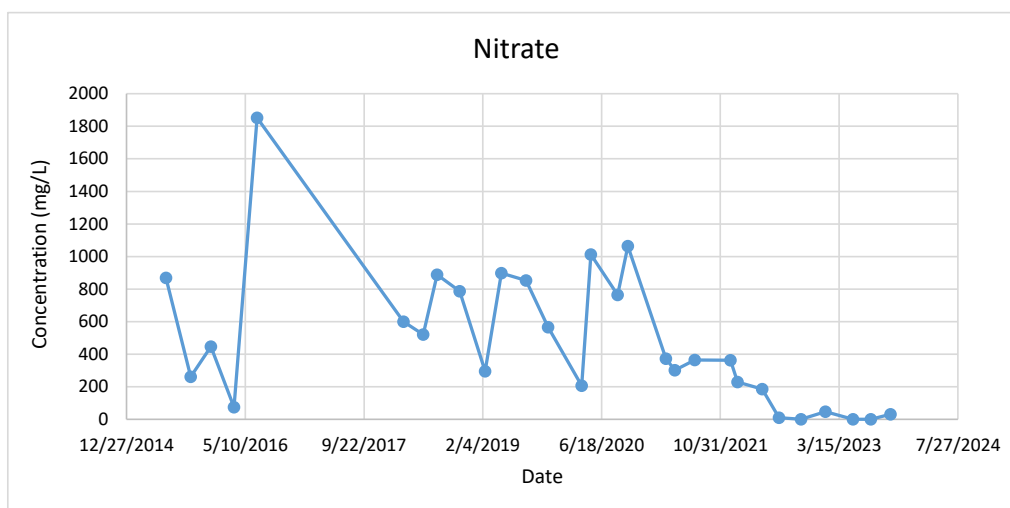
Landfill 6 Blanket Drain



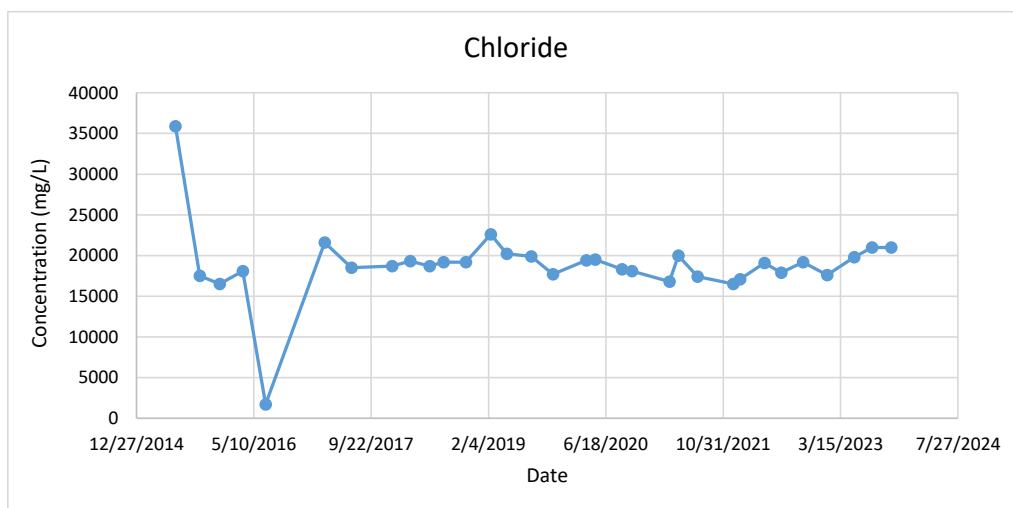
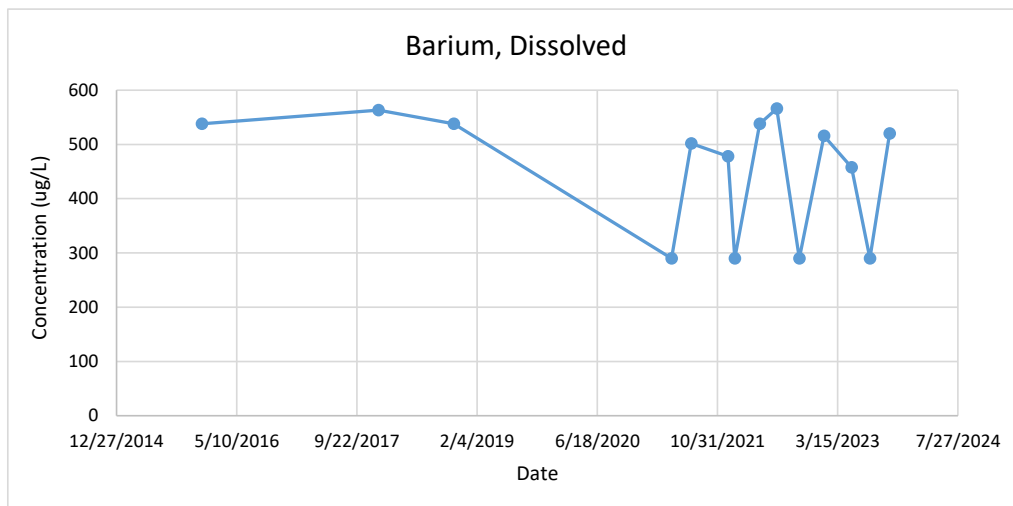
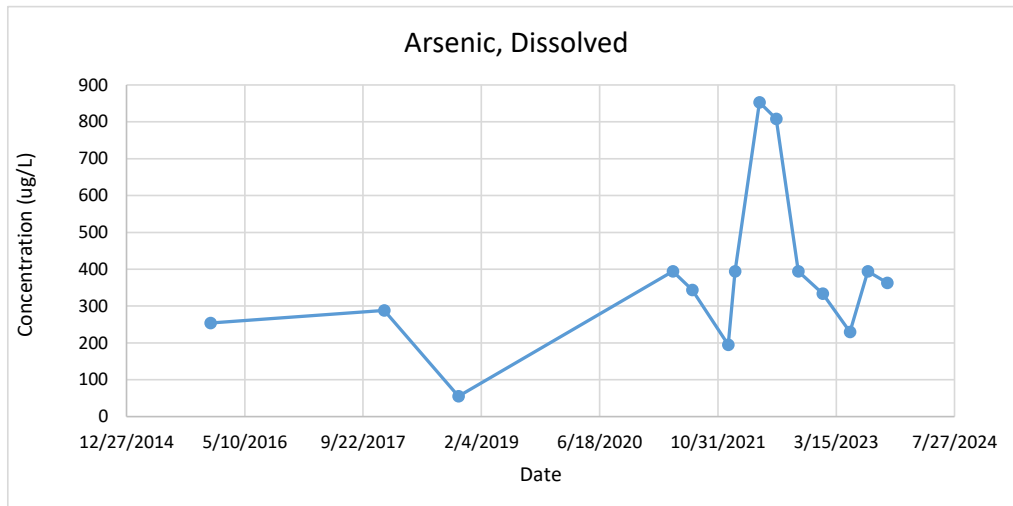
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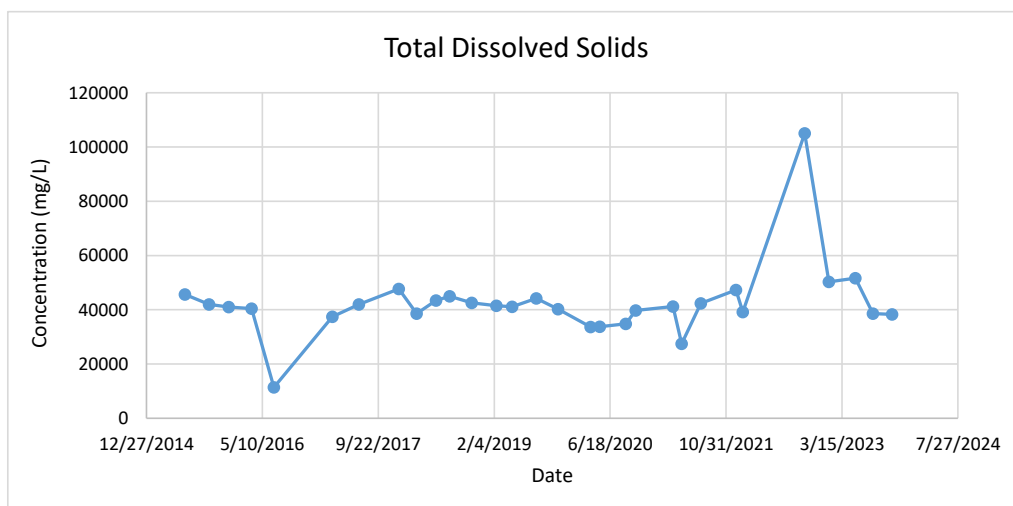
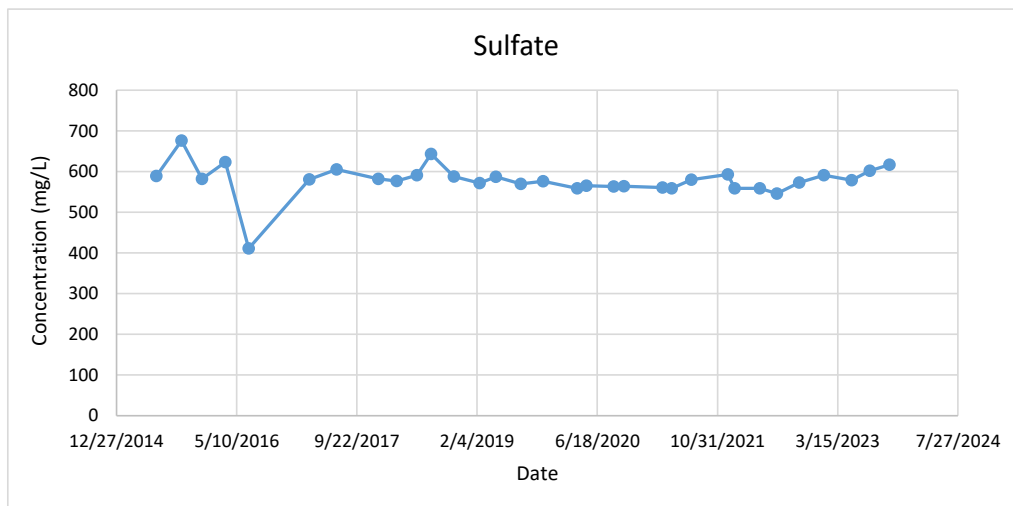
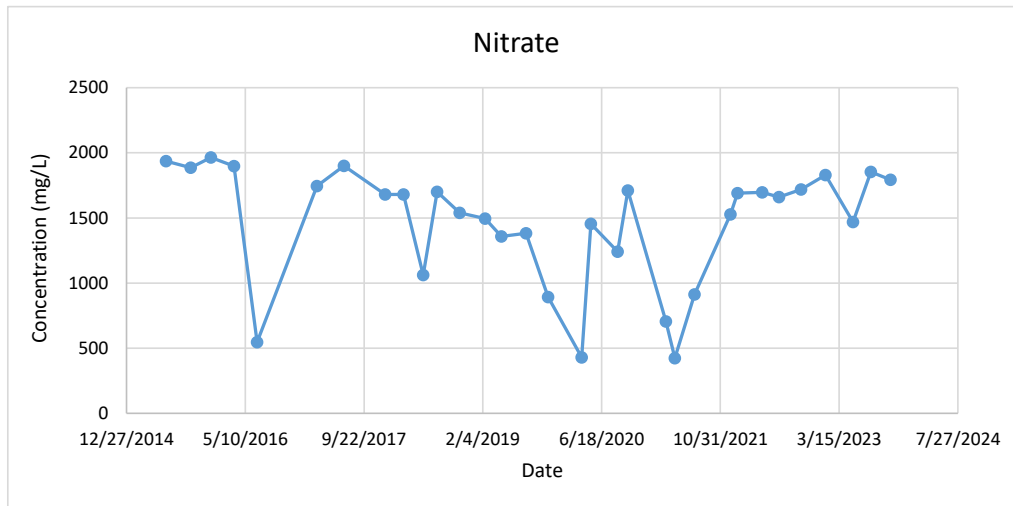
Landfill 6 LDZ



Landfill 6 LCS

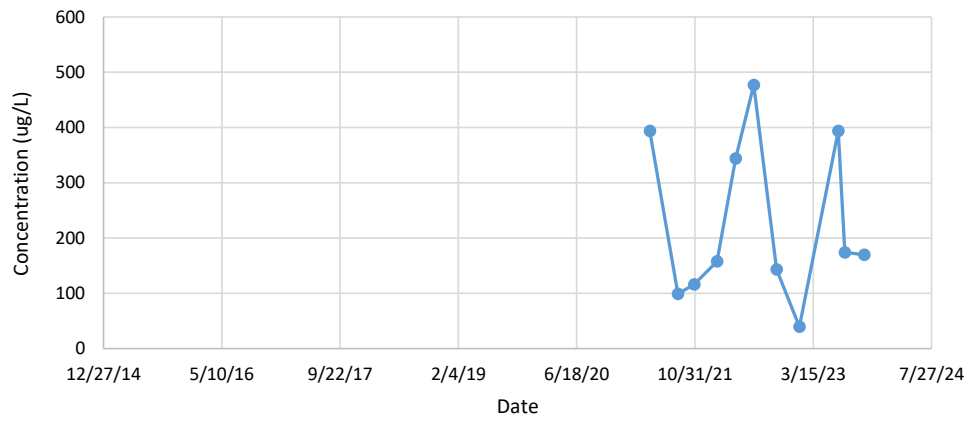


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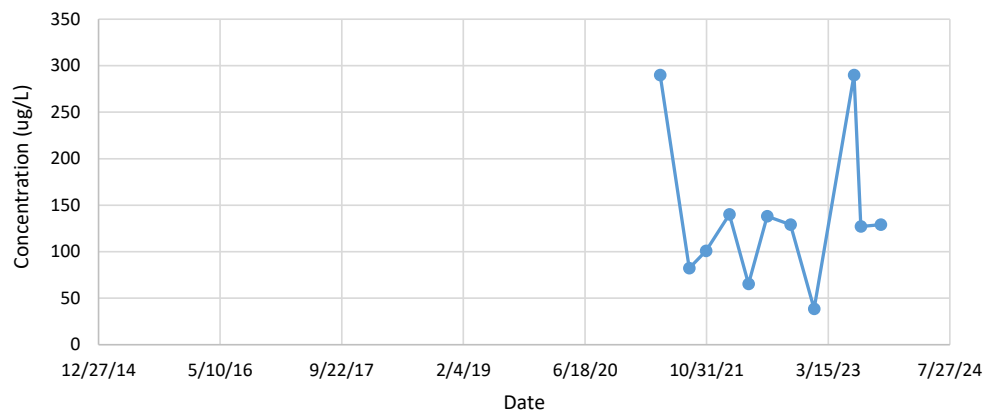


Township Road Drain

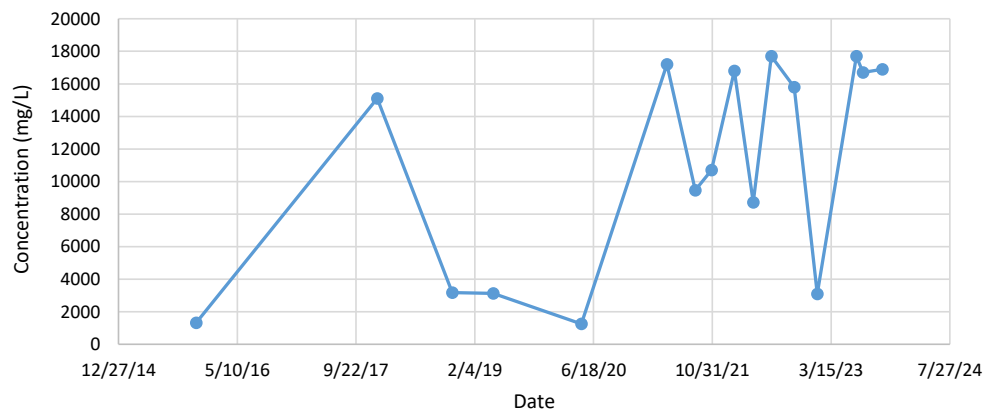
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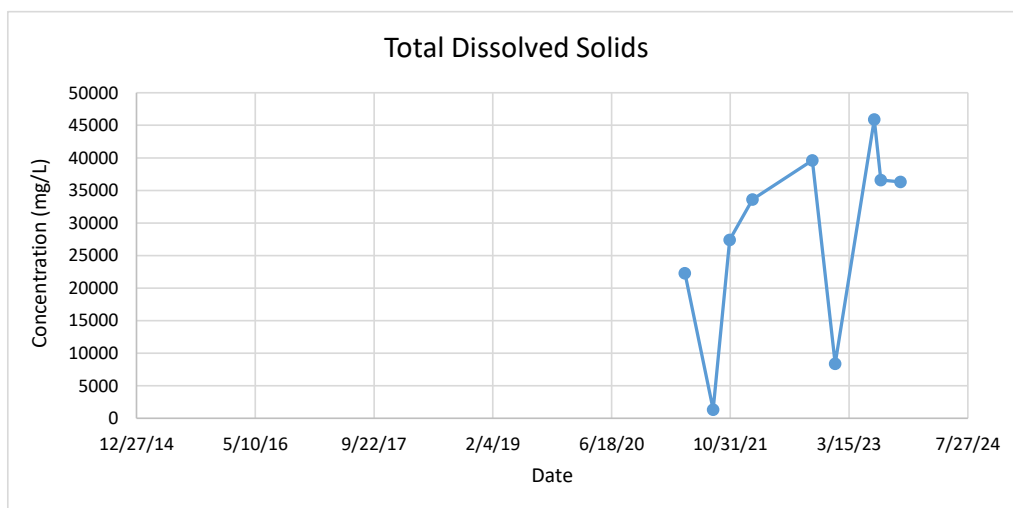
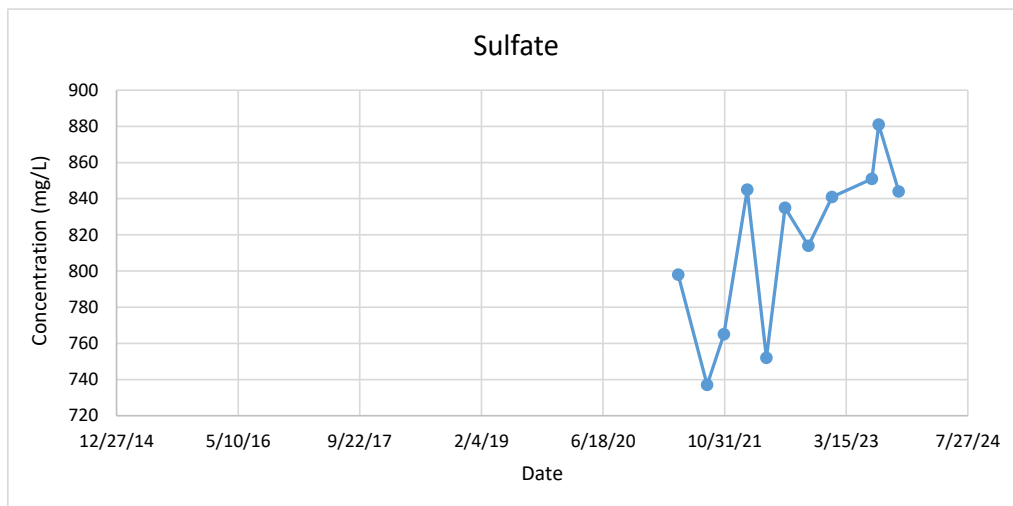
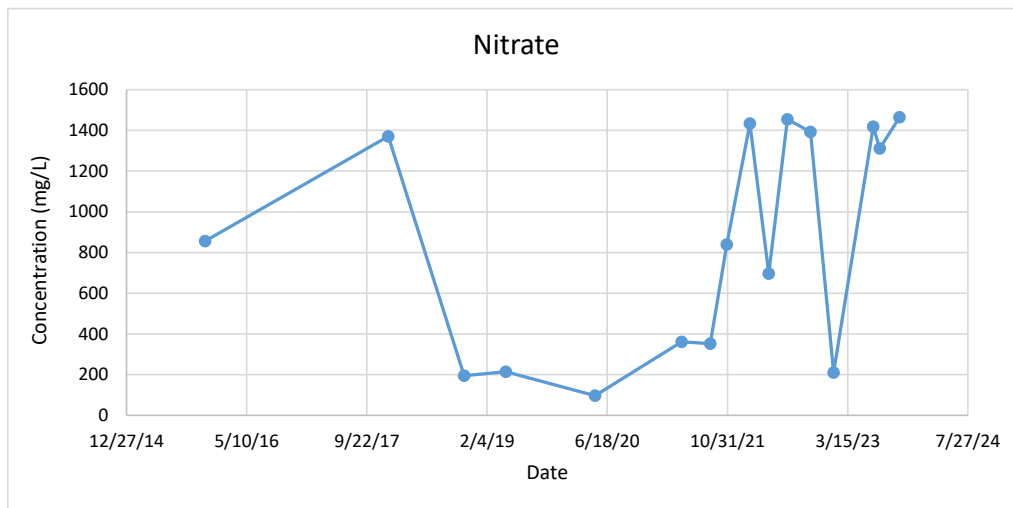
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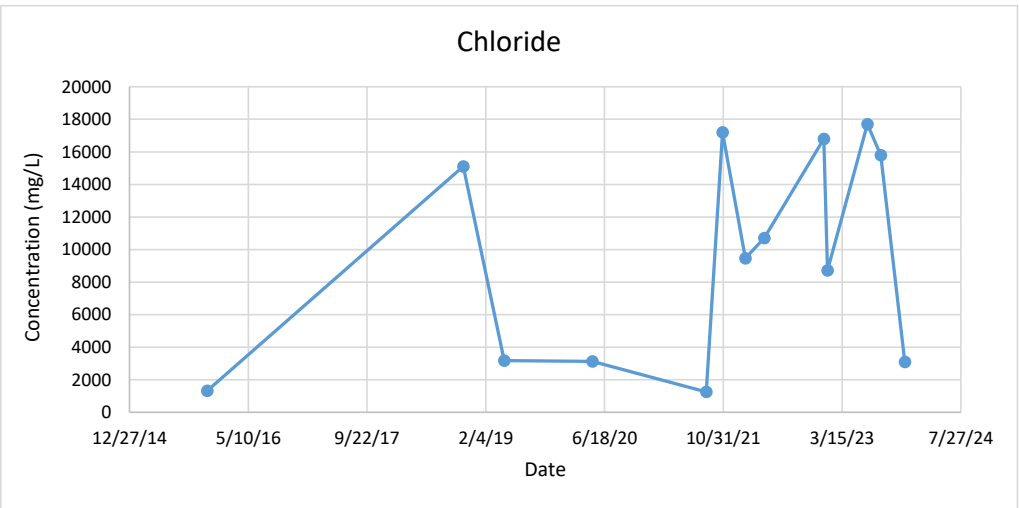
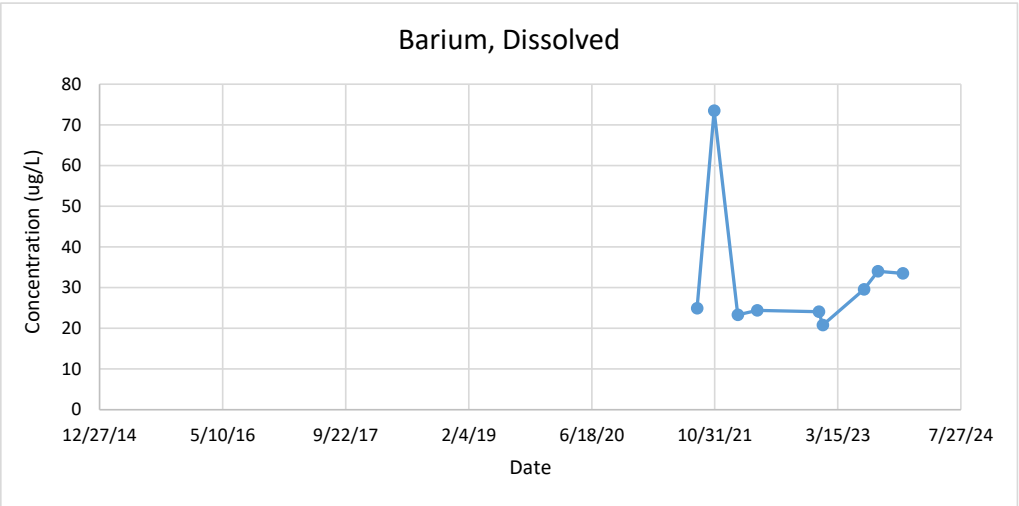
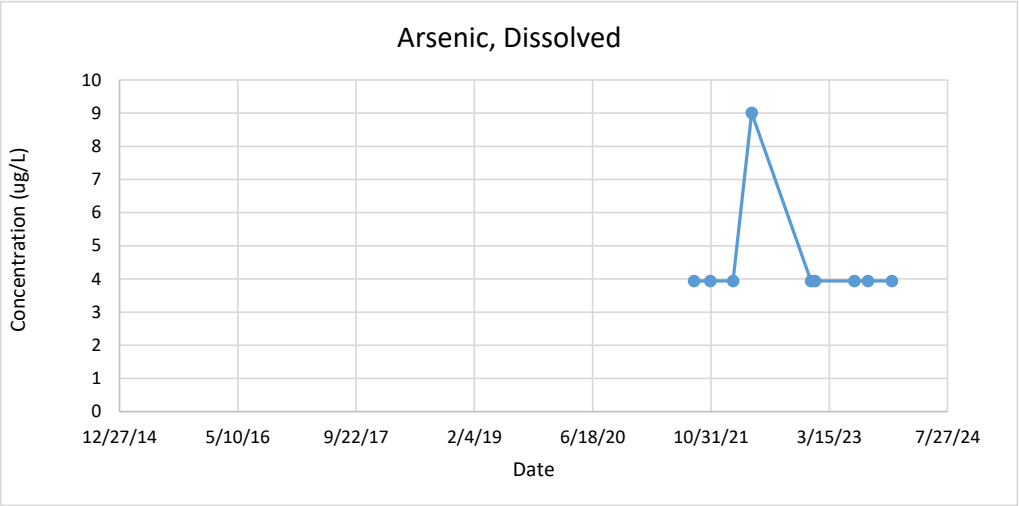
Chloride



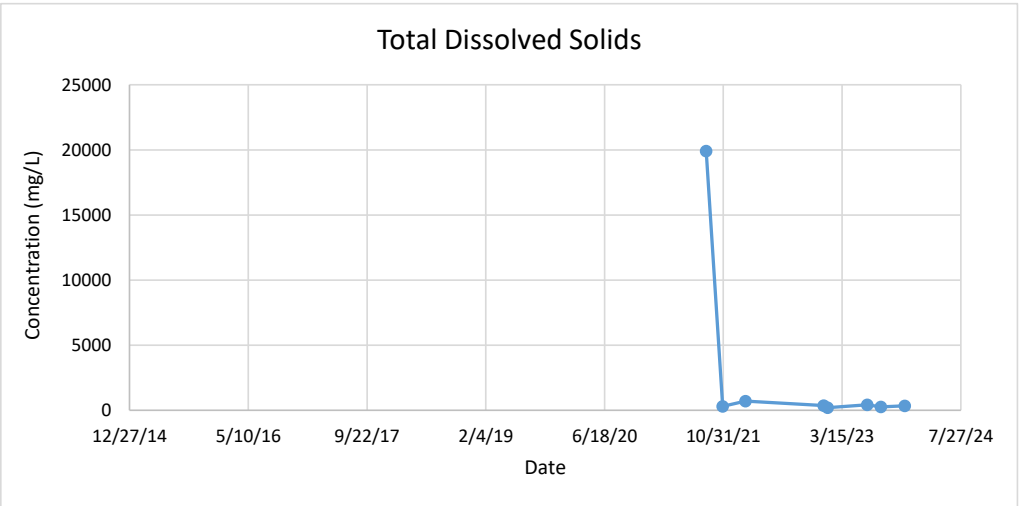
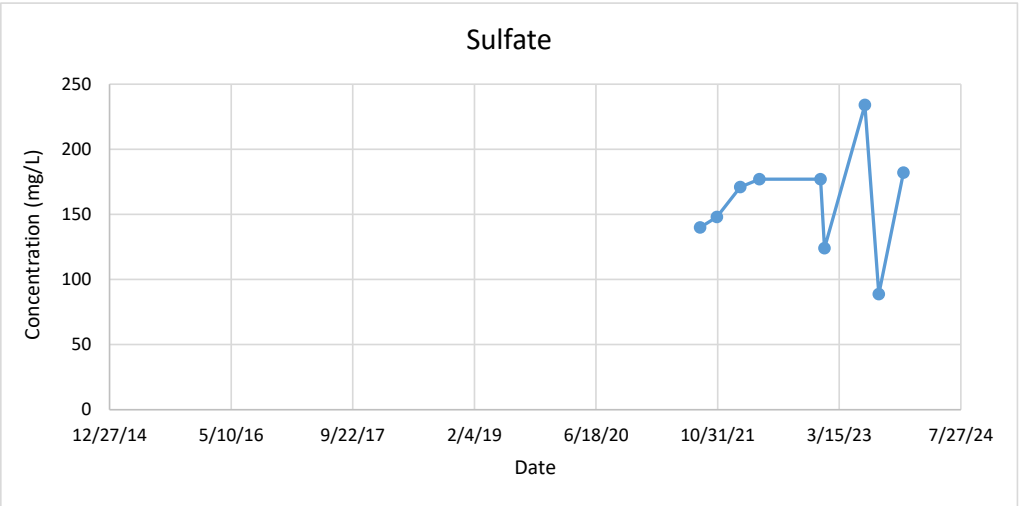
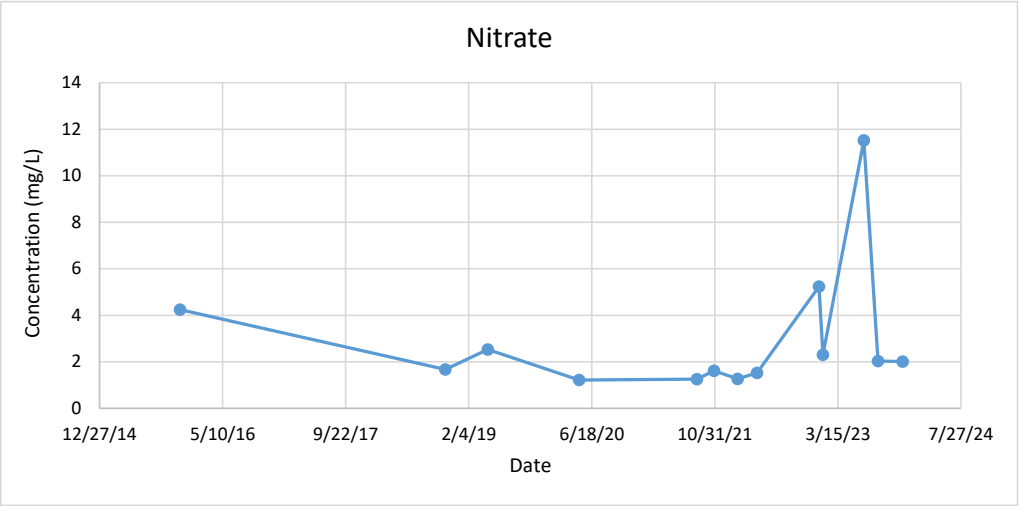
Township Road Drain



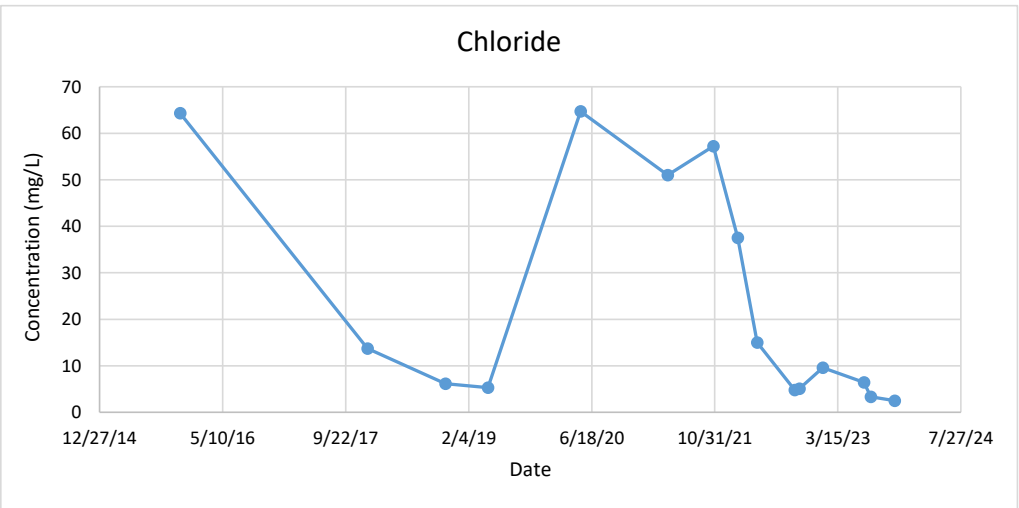
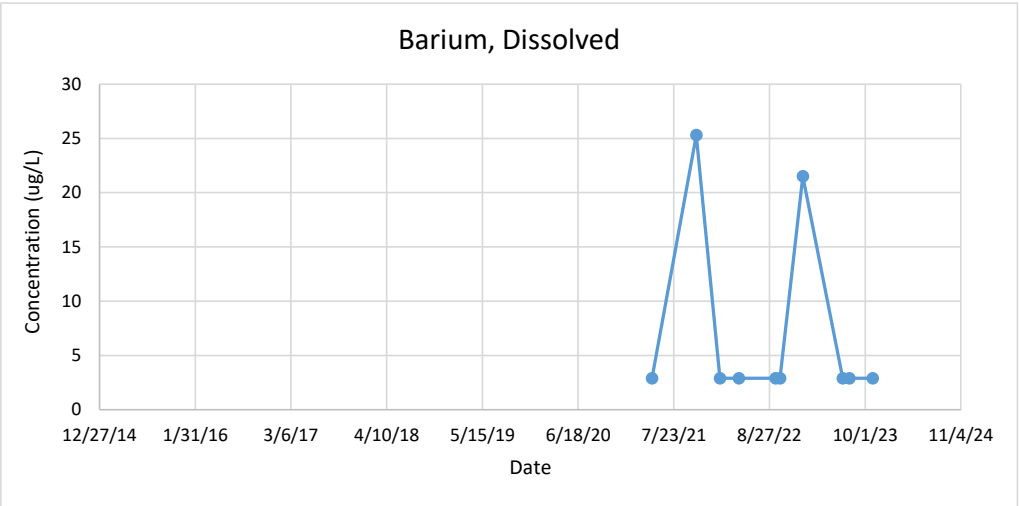
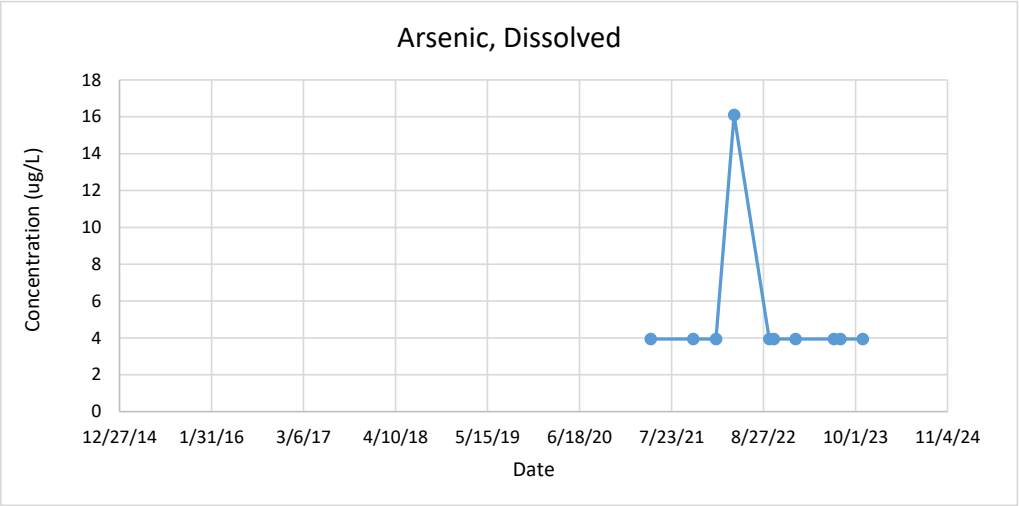
Township Road Drain Tank



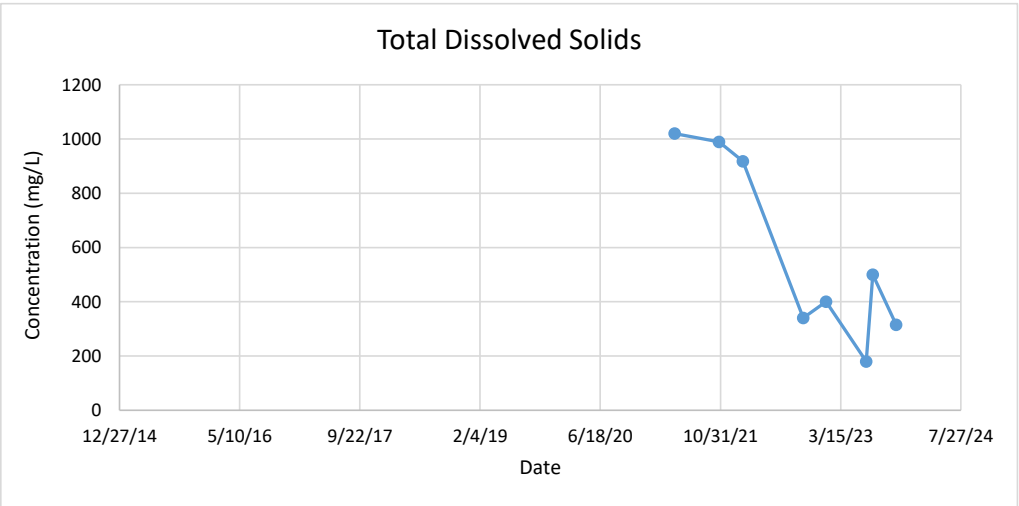
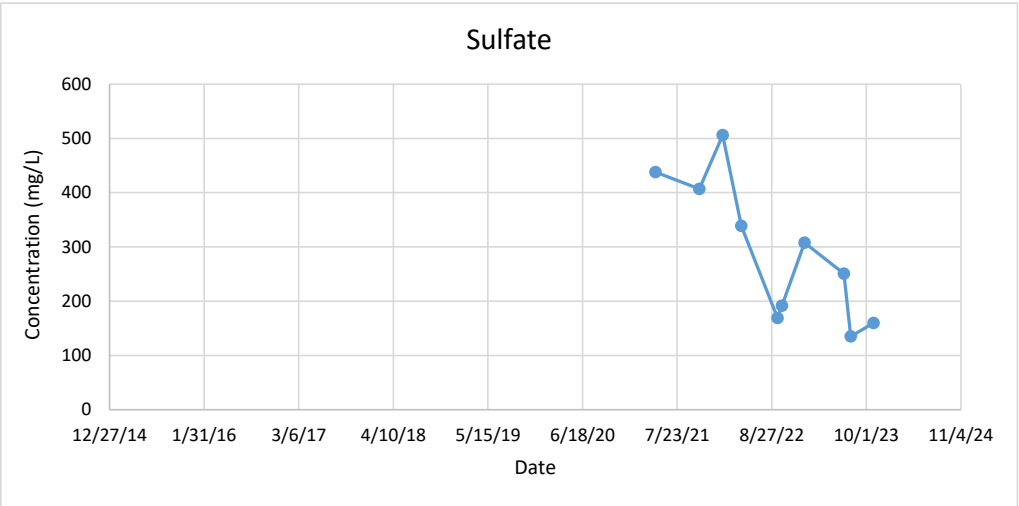
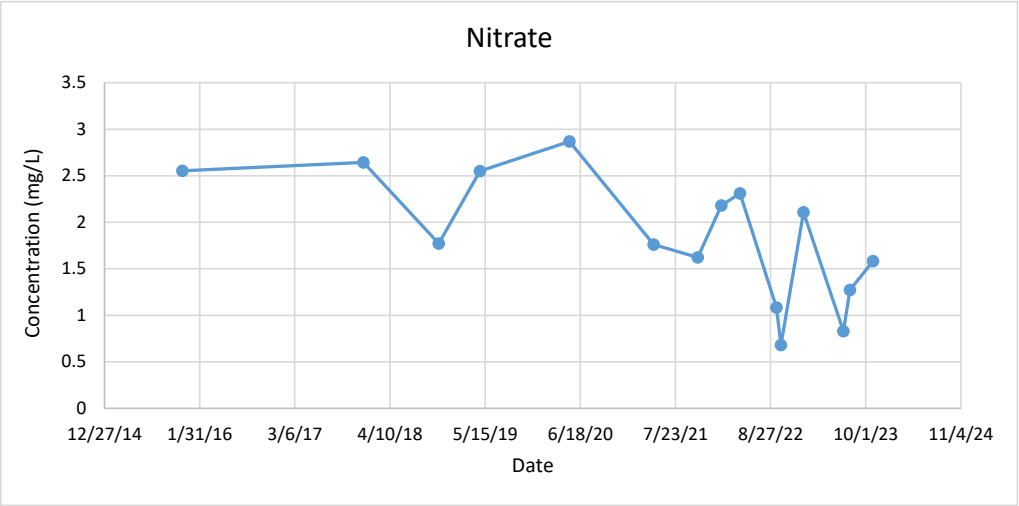
Township Road Drain Tank



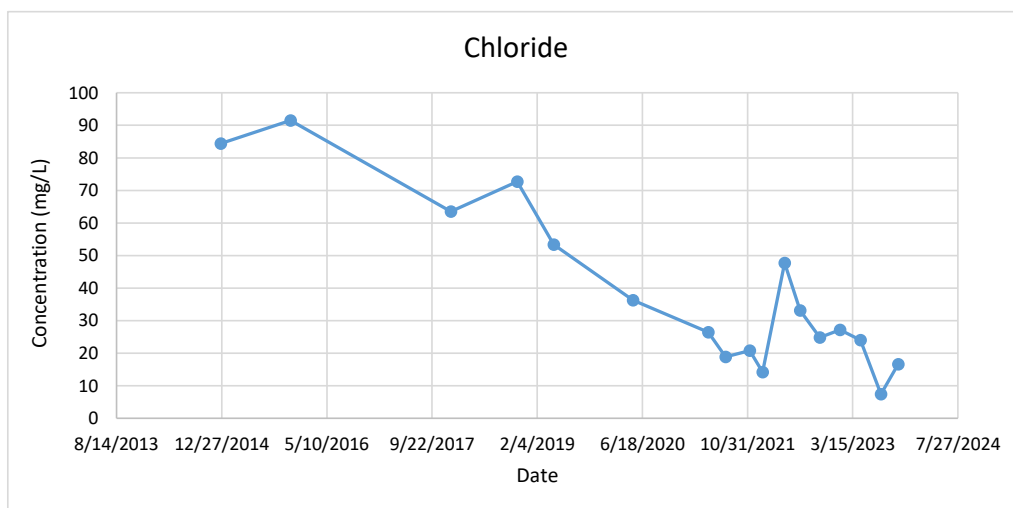
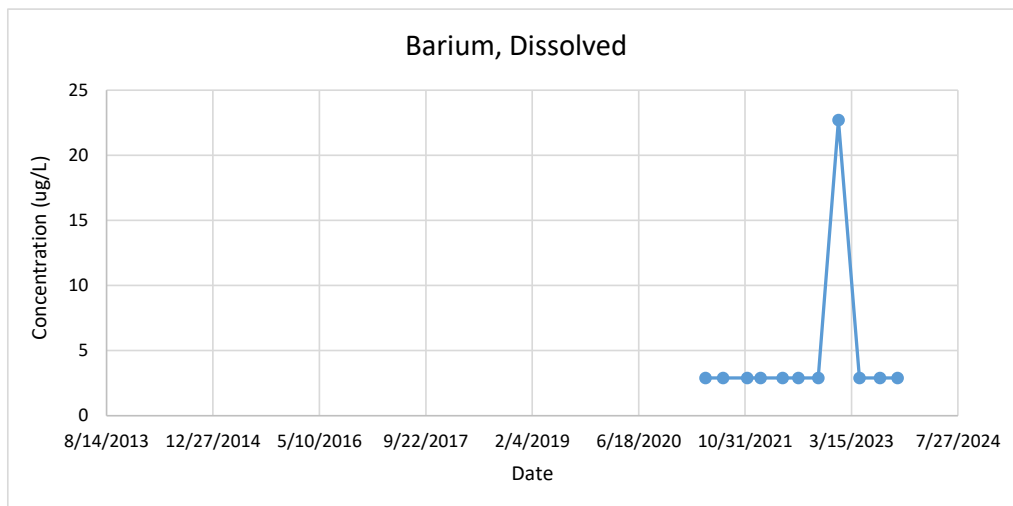
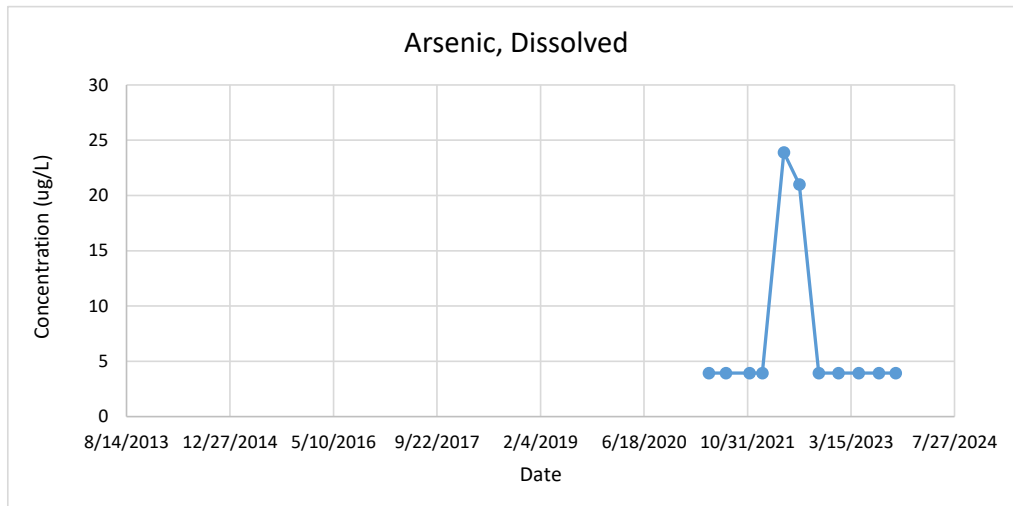
North Toe Tank



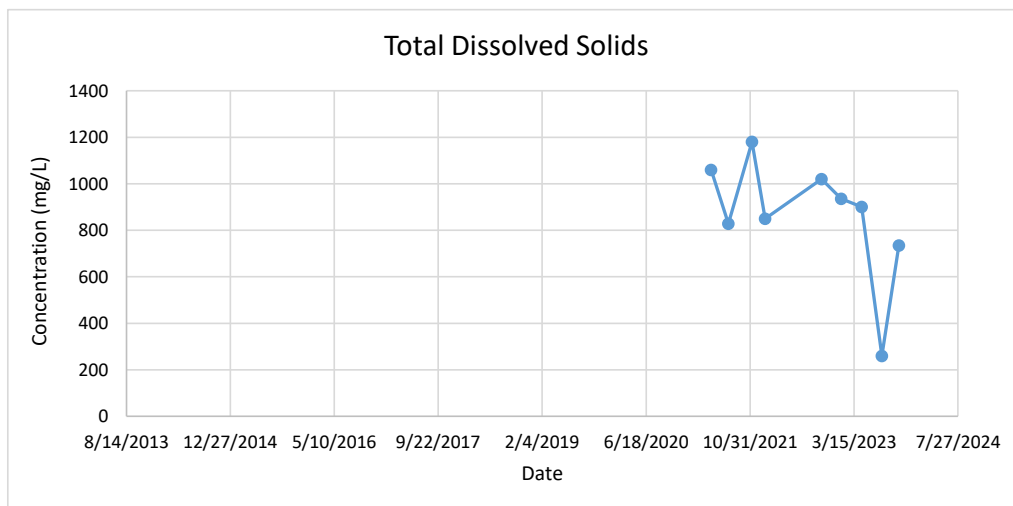
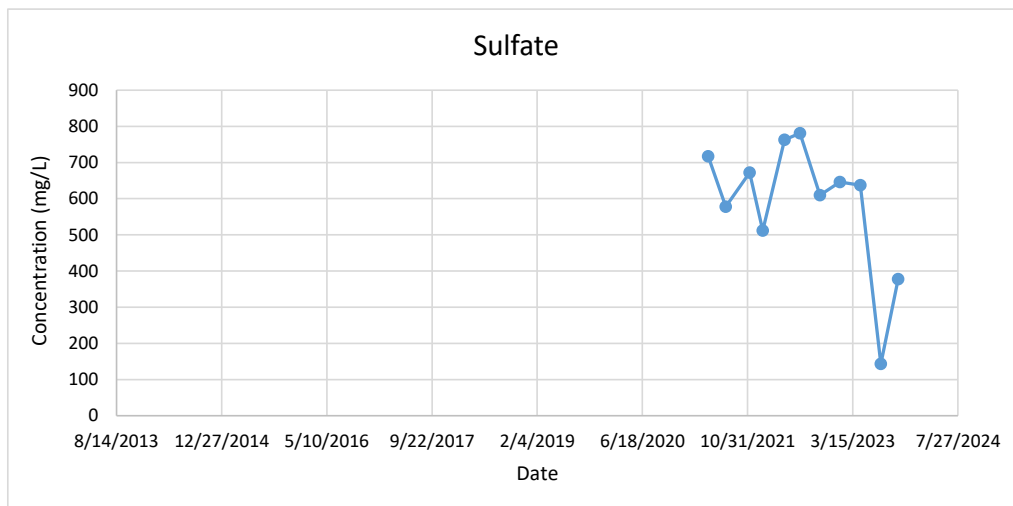
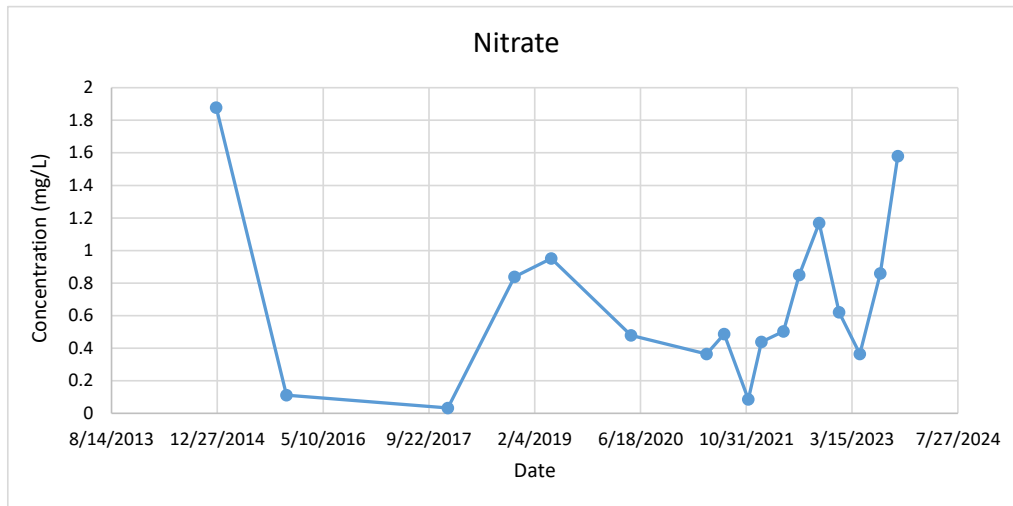
North Toe Tank



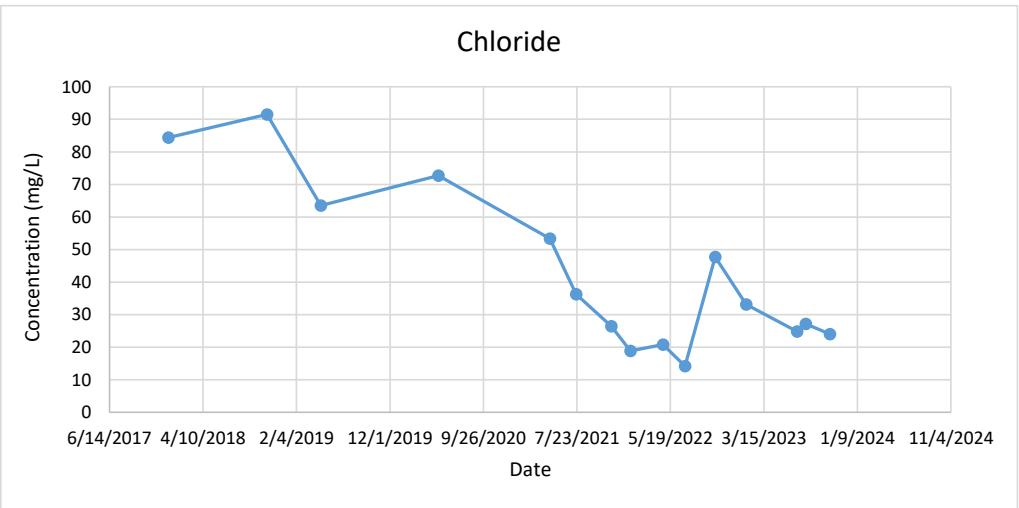
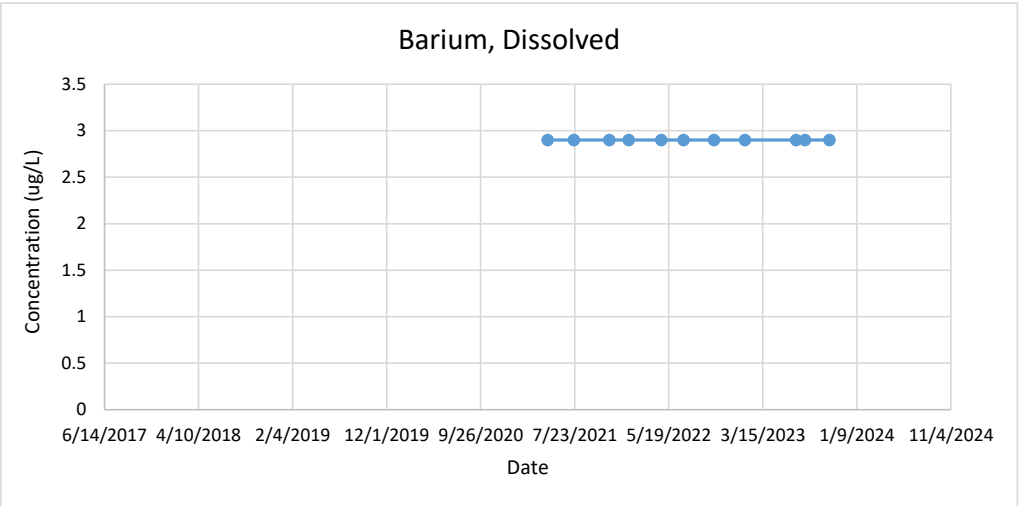
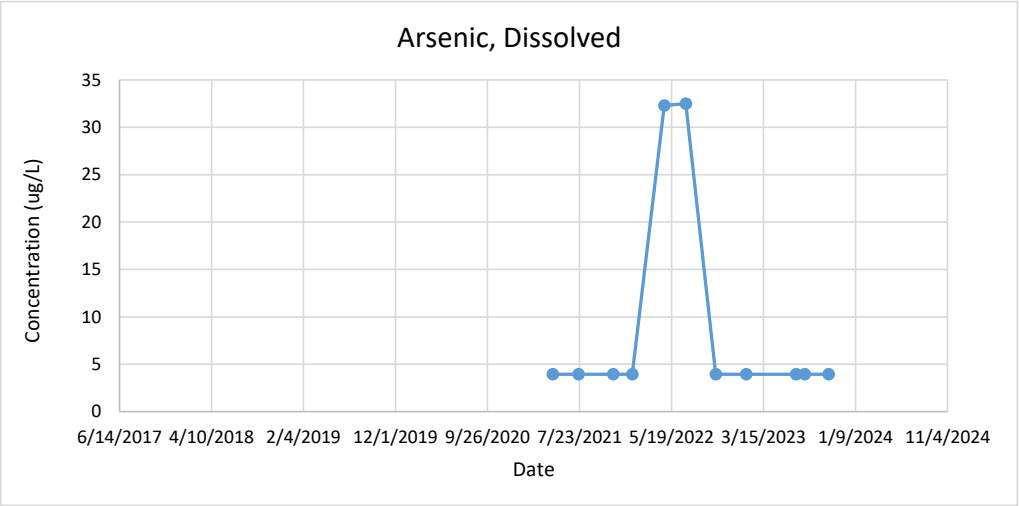
East Toe Tank



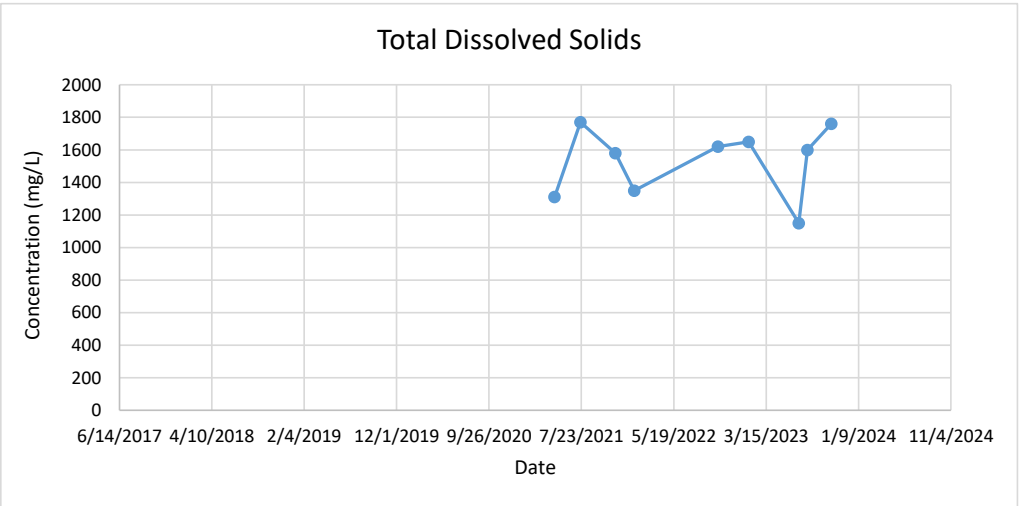
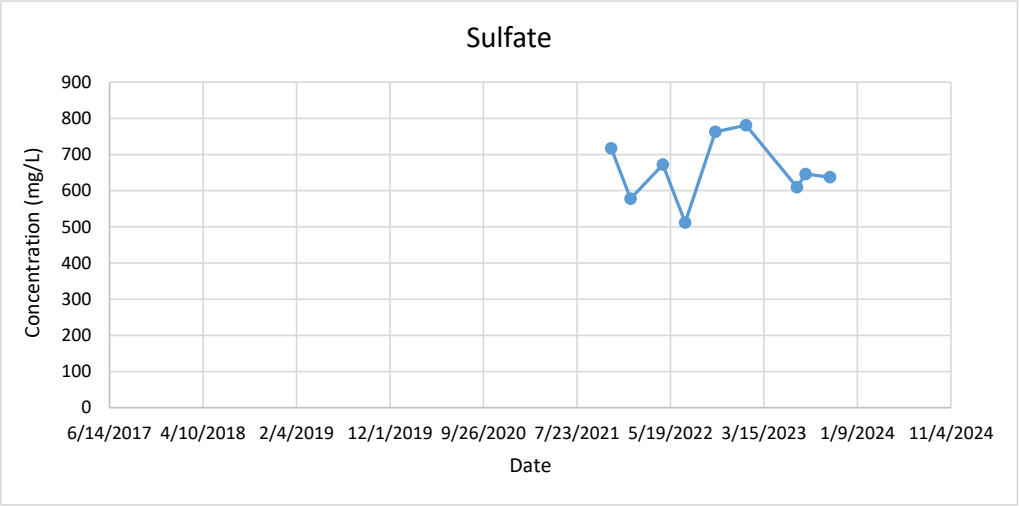
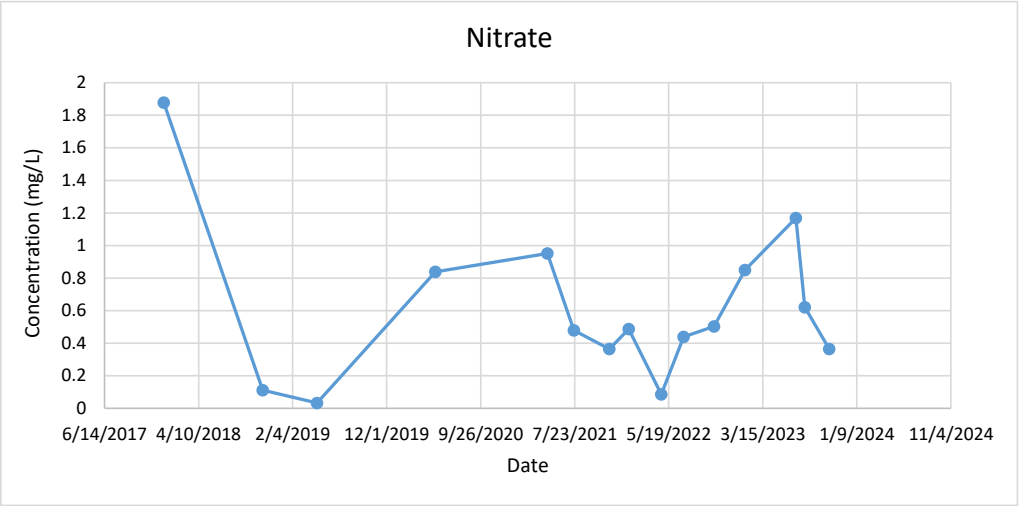
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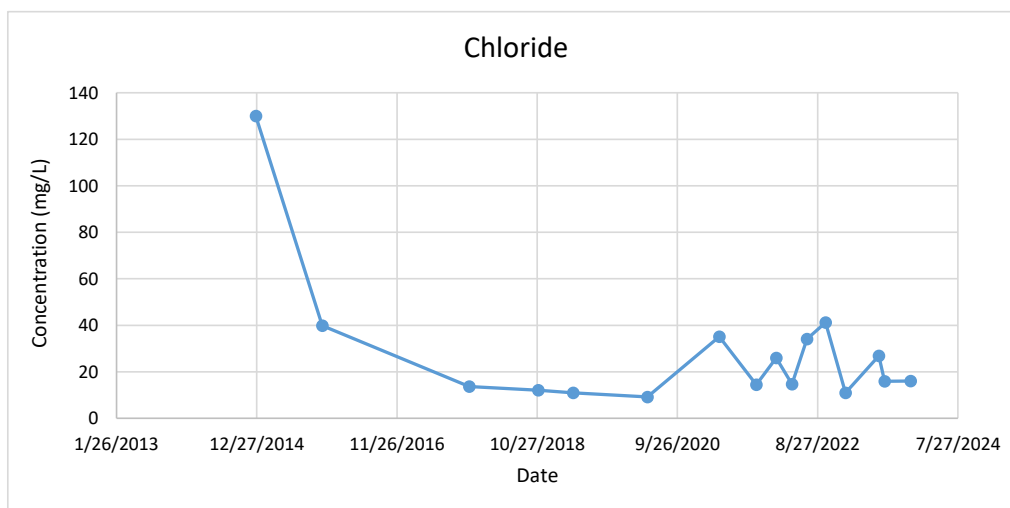
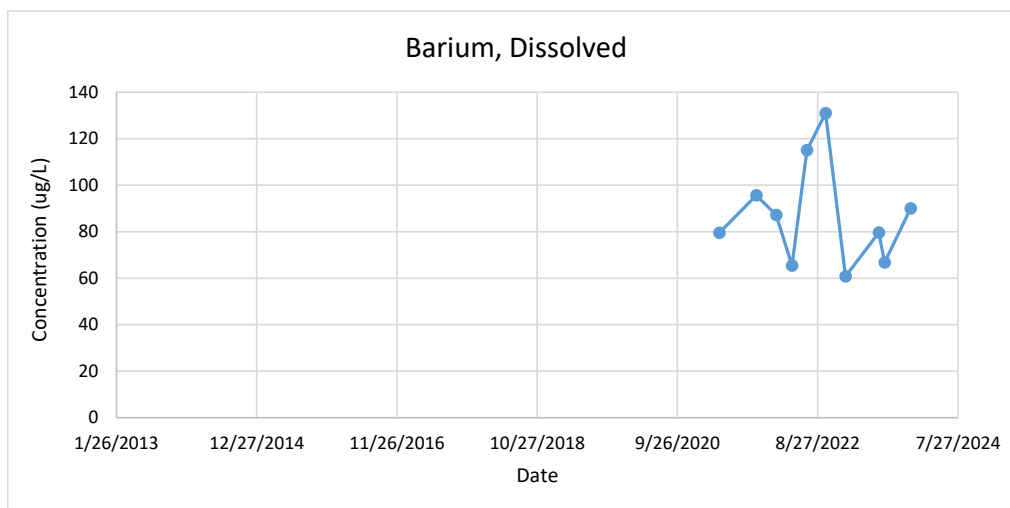
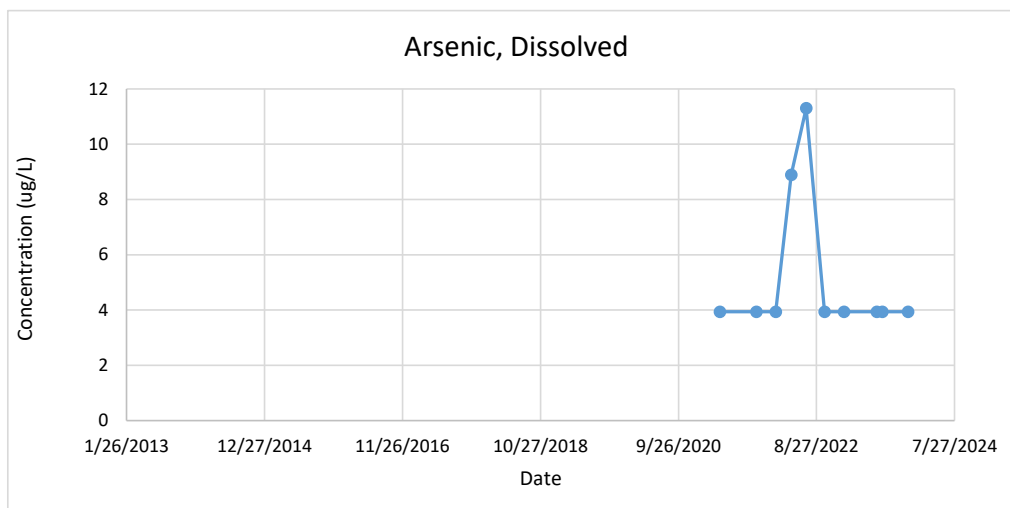
South Toe Tank



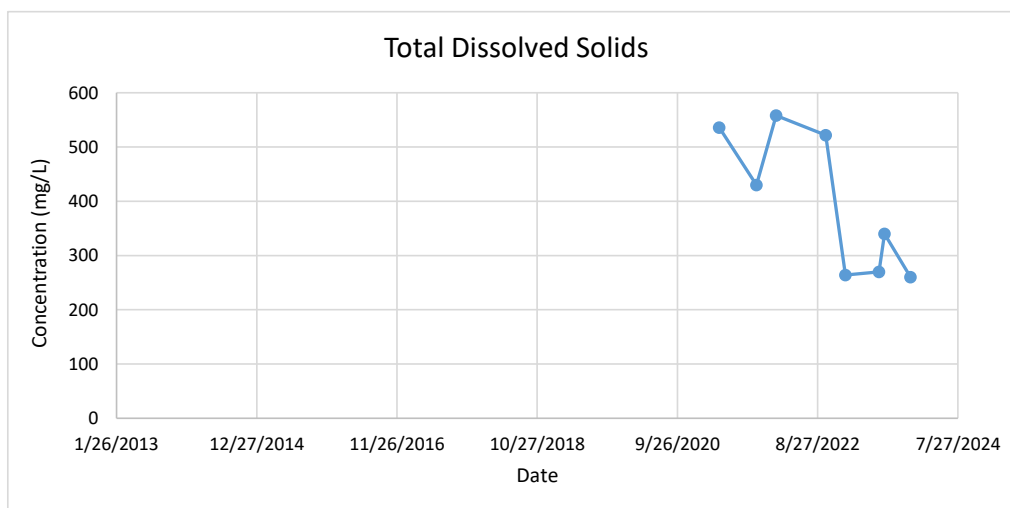
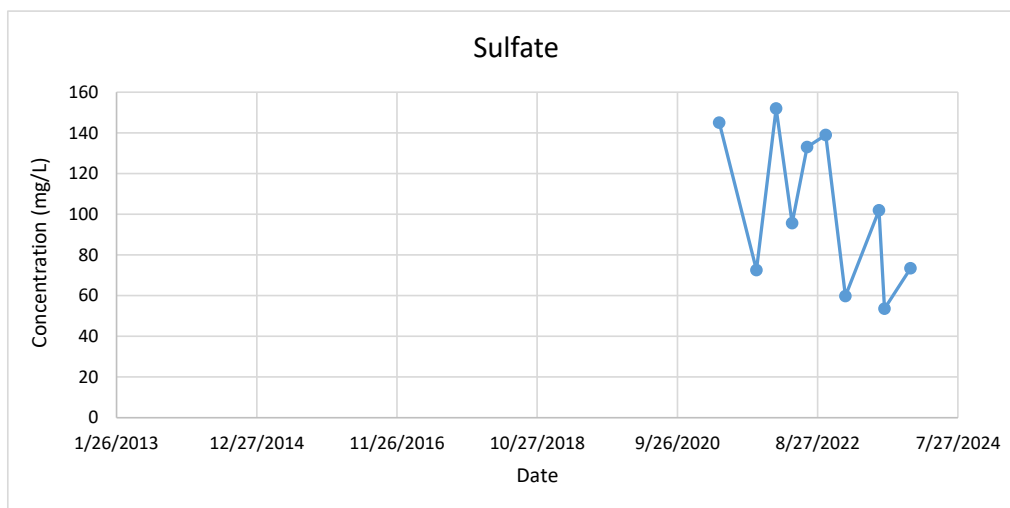
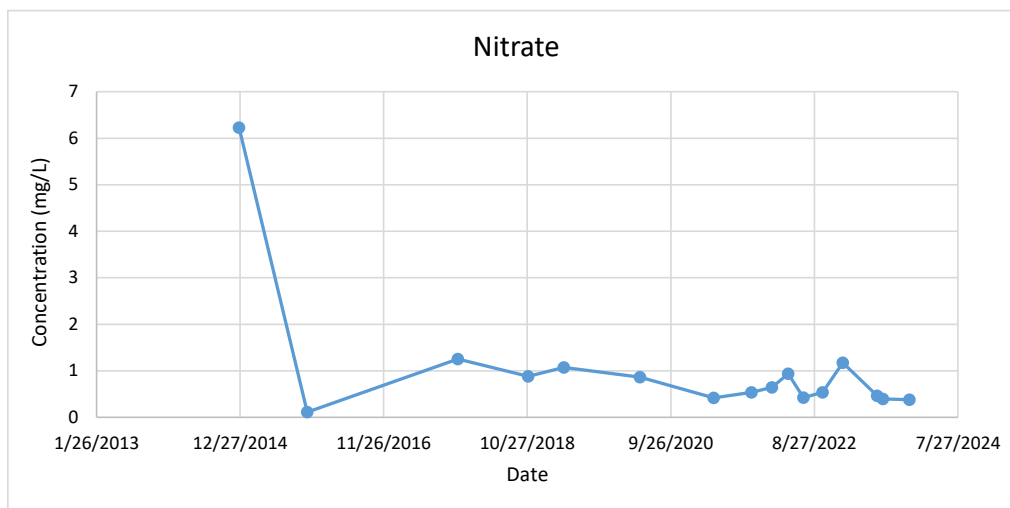
South Toe Tank



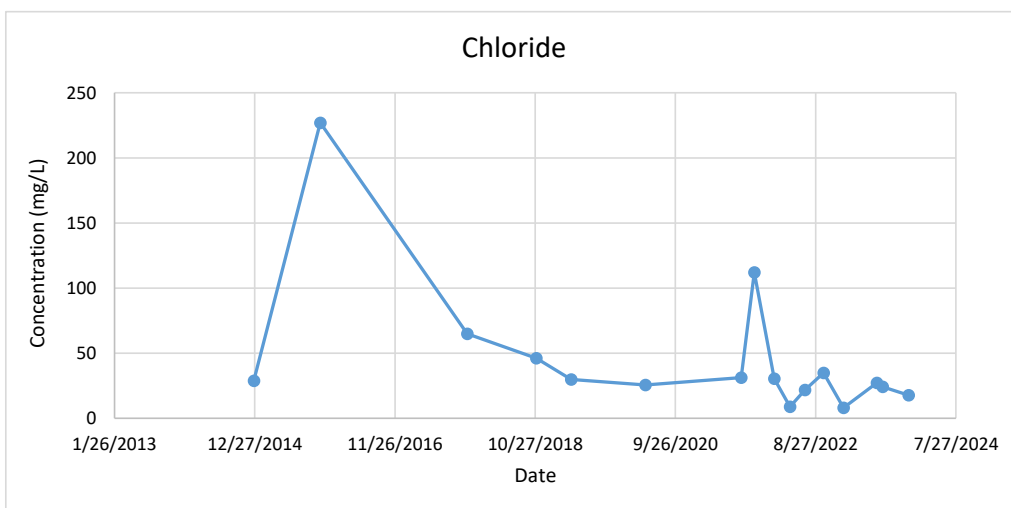
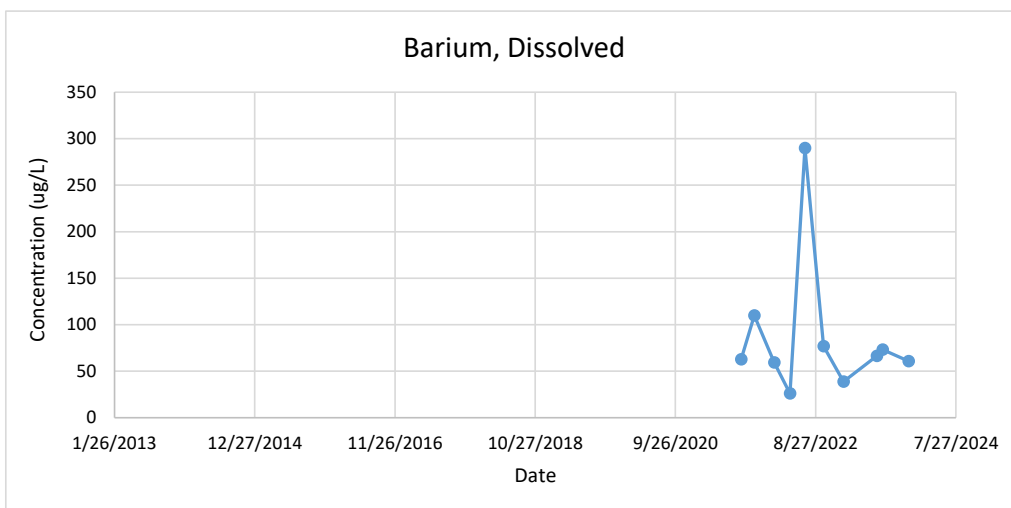
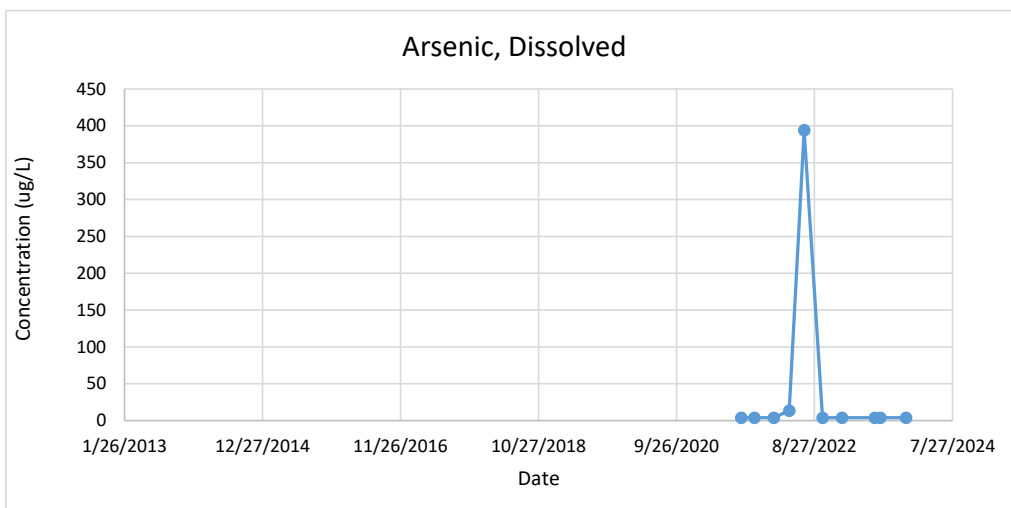
SURFACE WATER



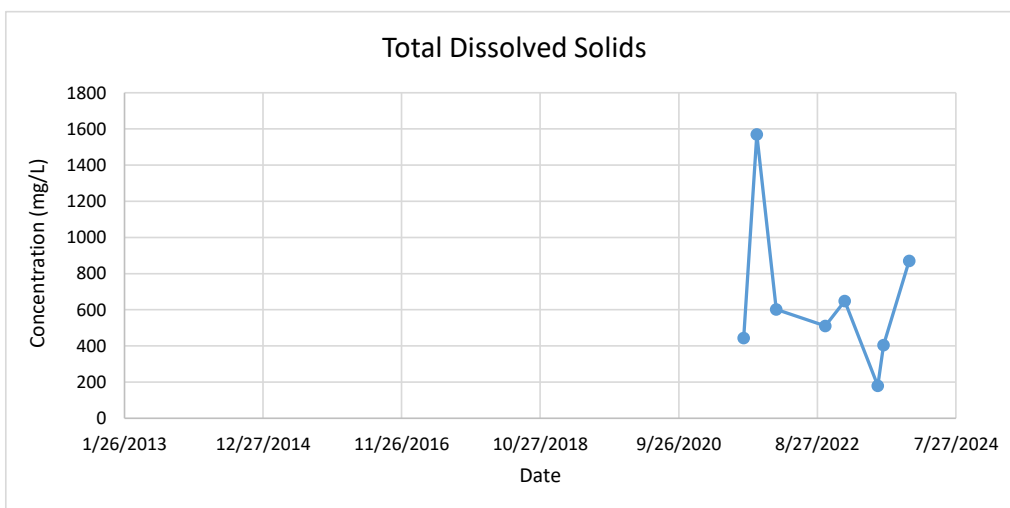
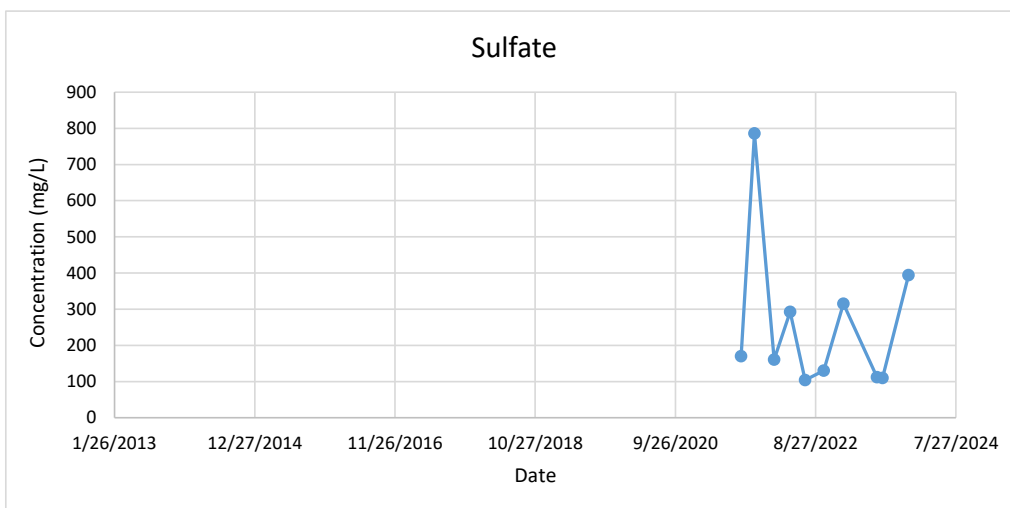
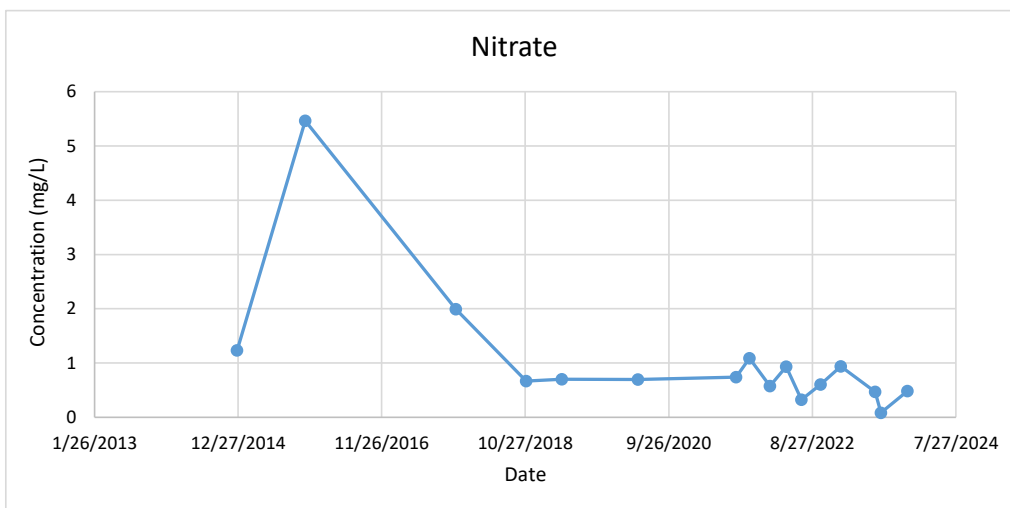
S-A

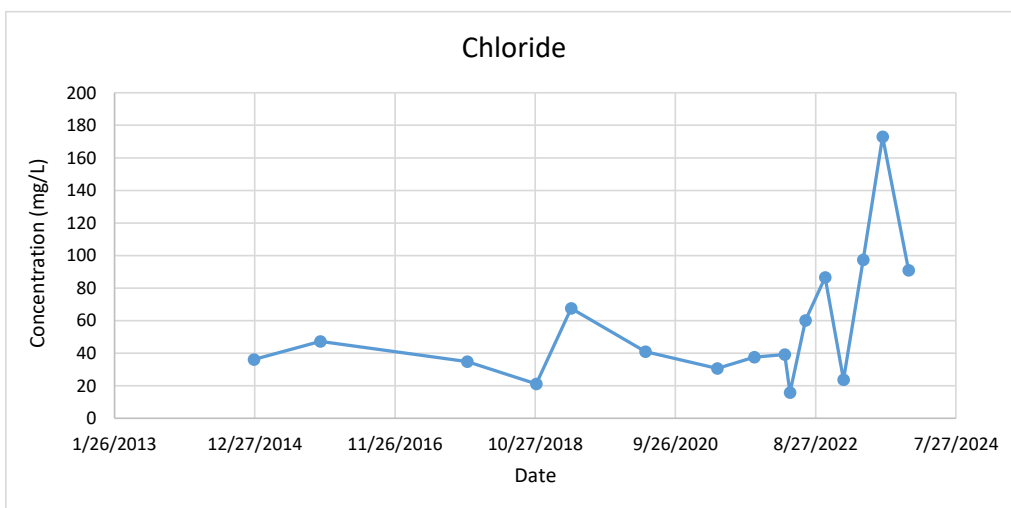
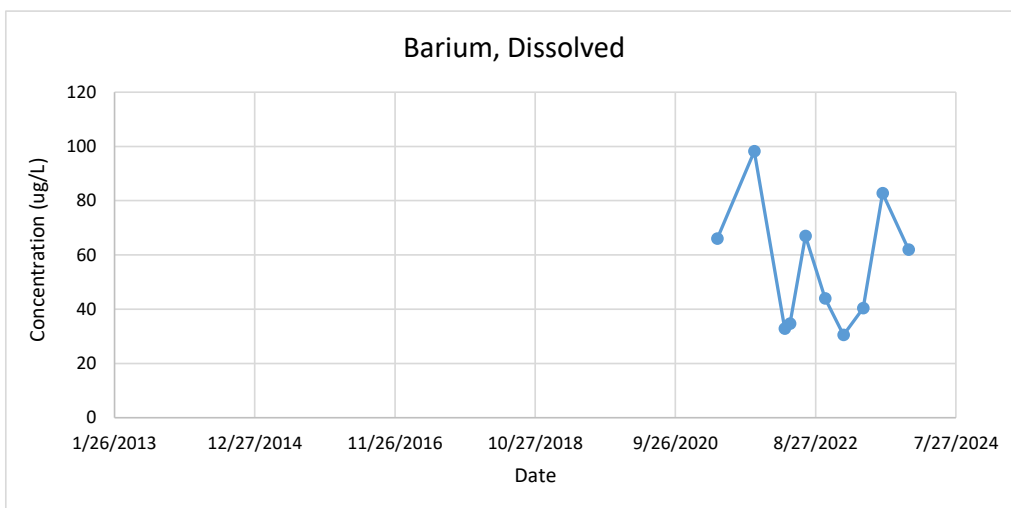
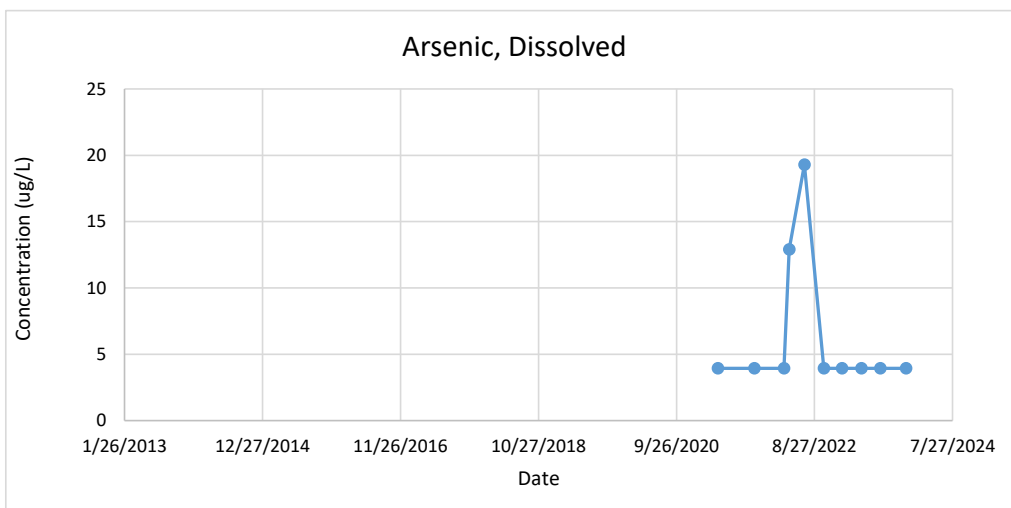


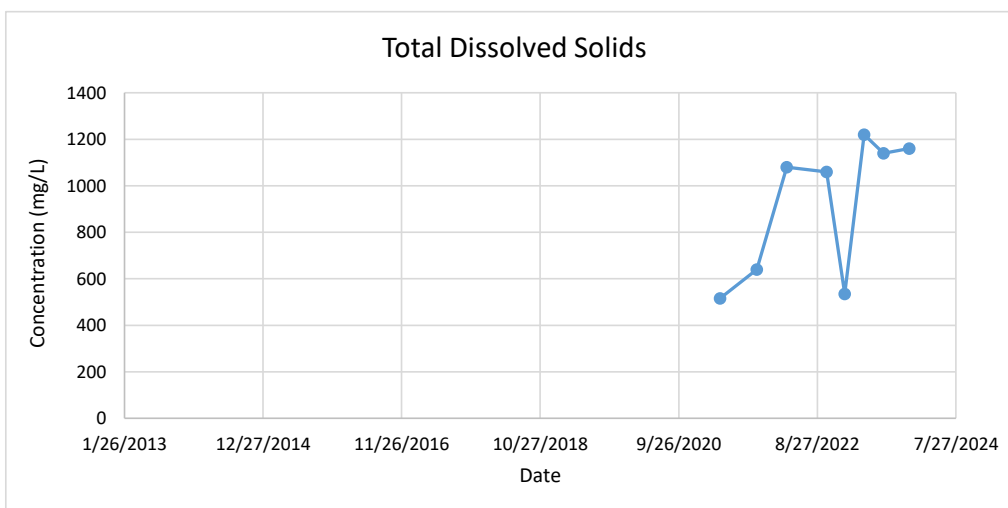
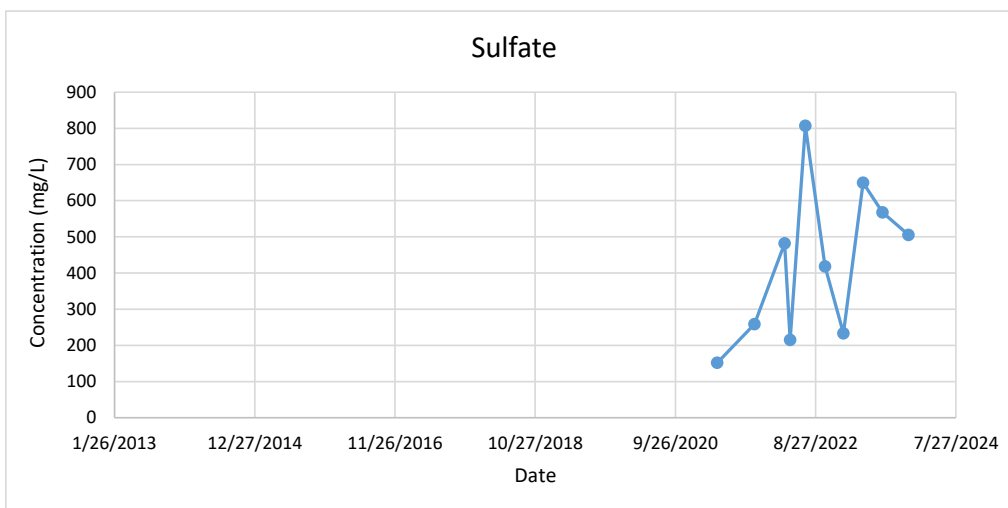
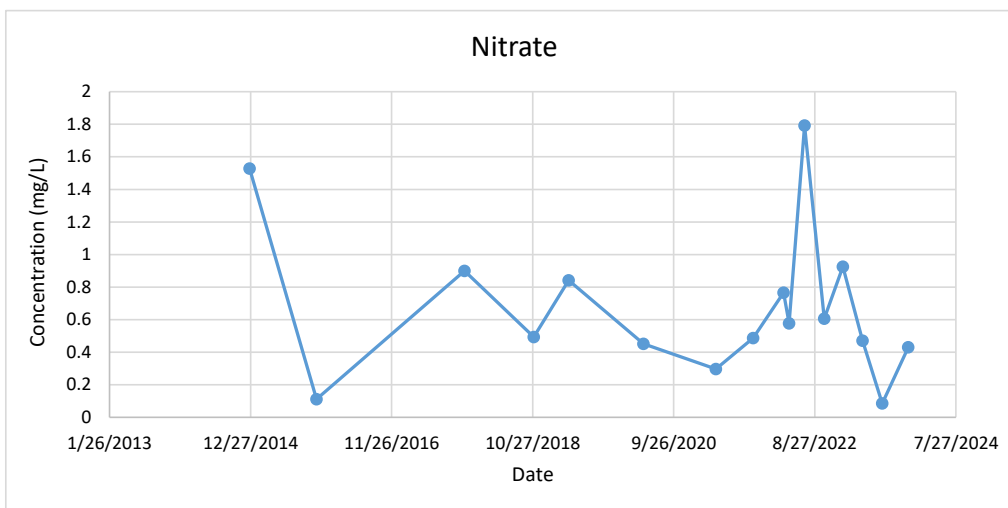
S-B



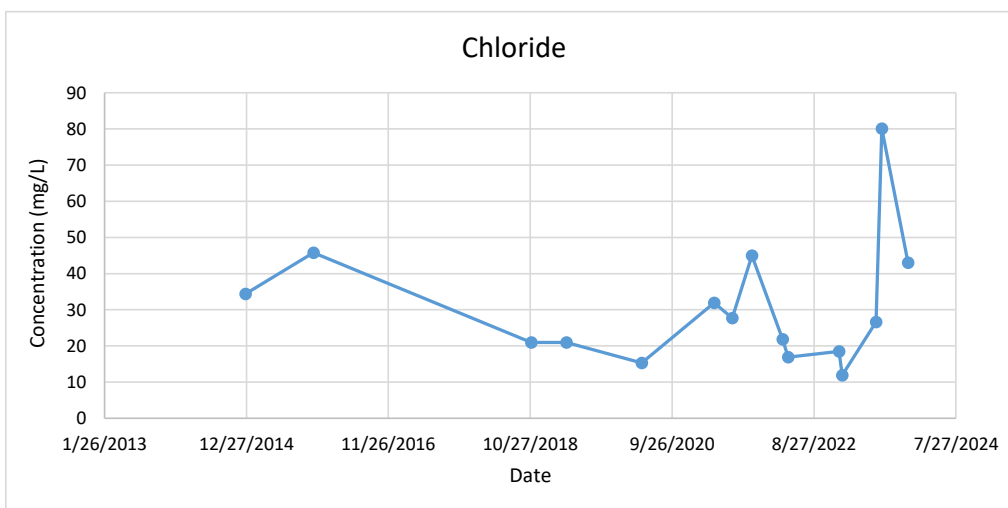
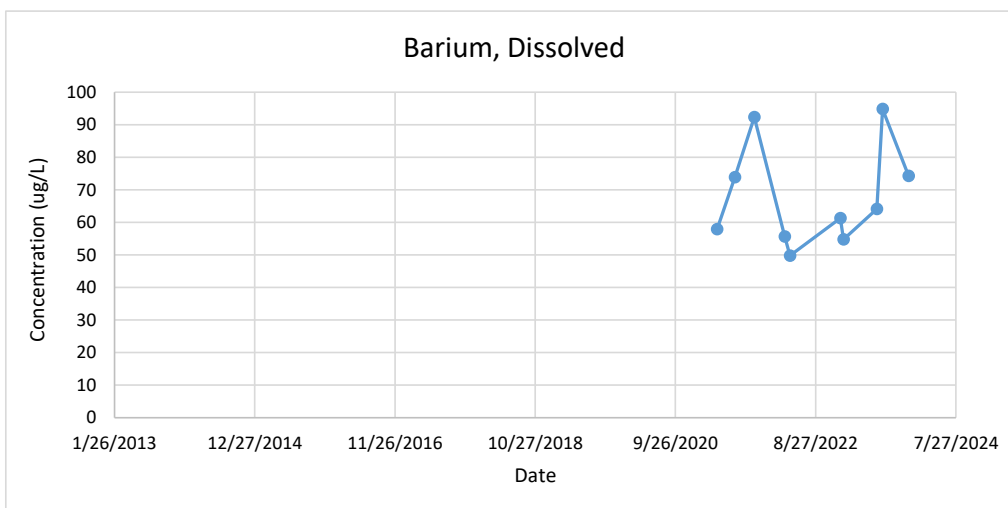
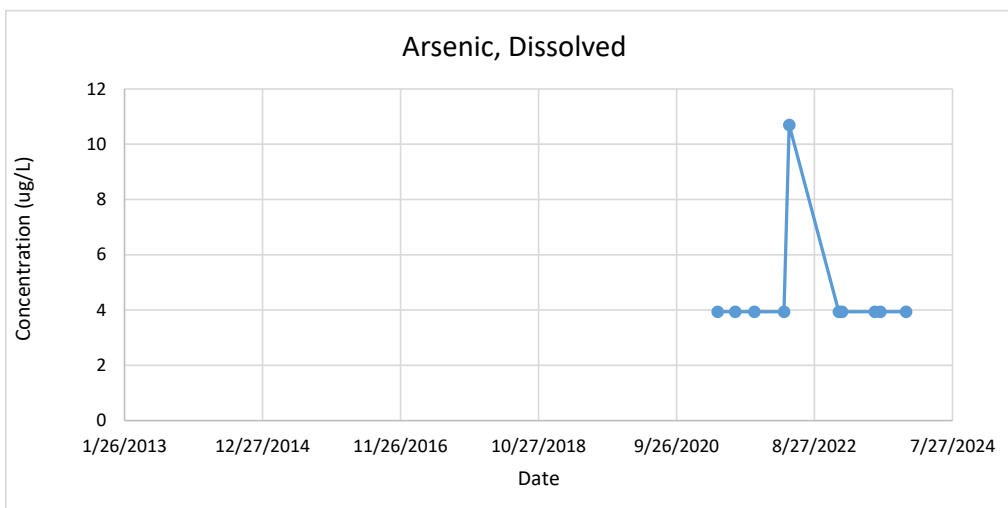
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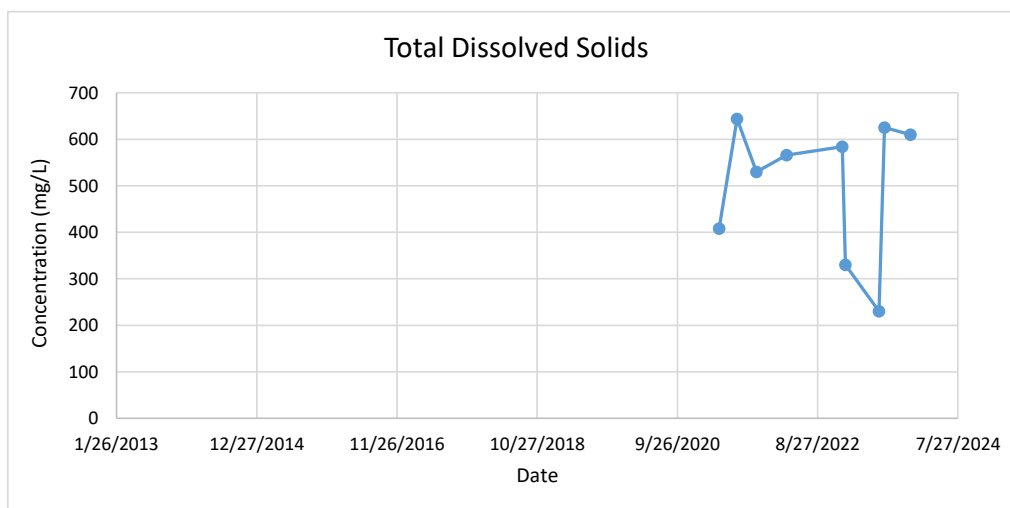
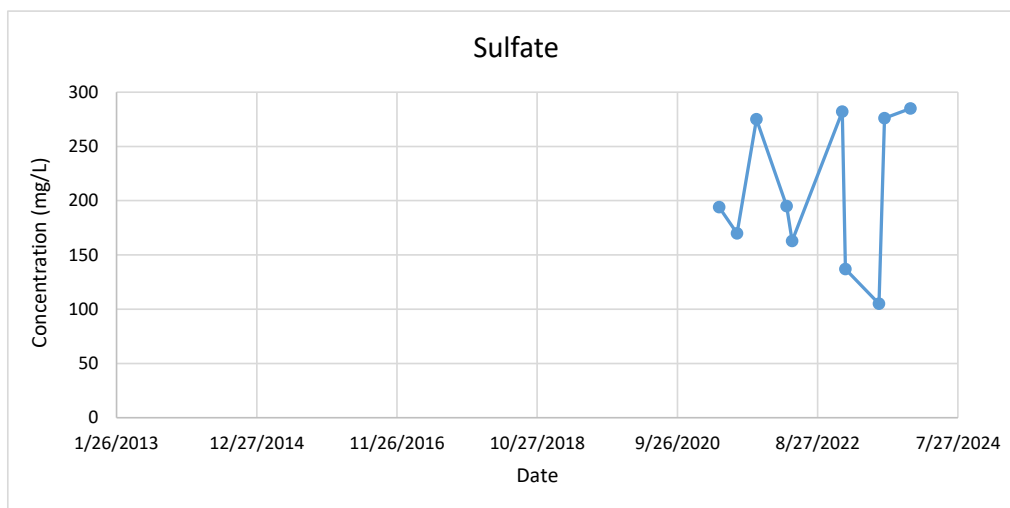
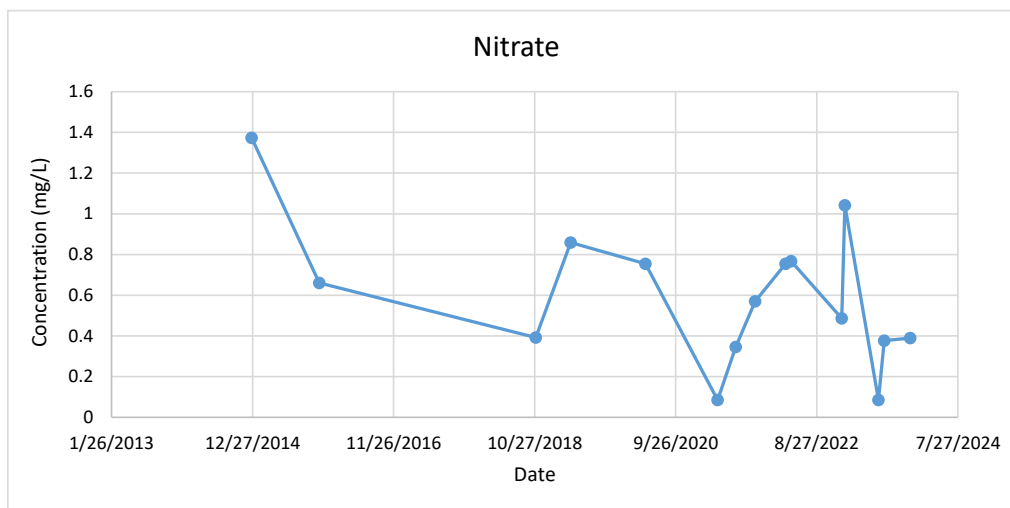




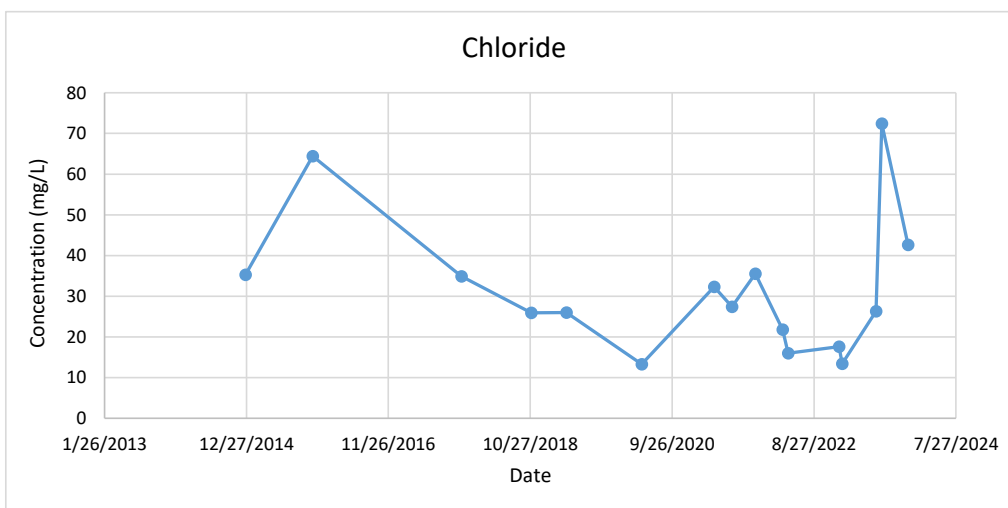
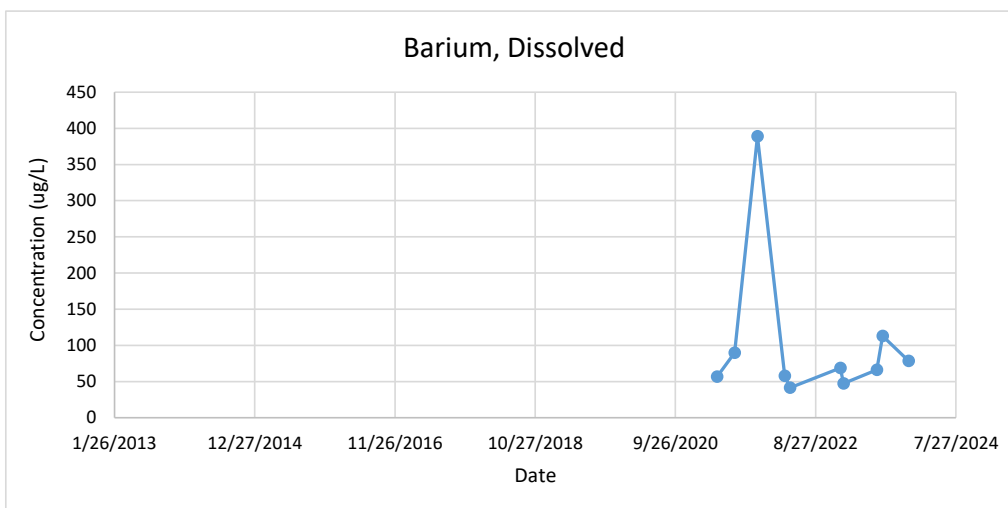
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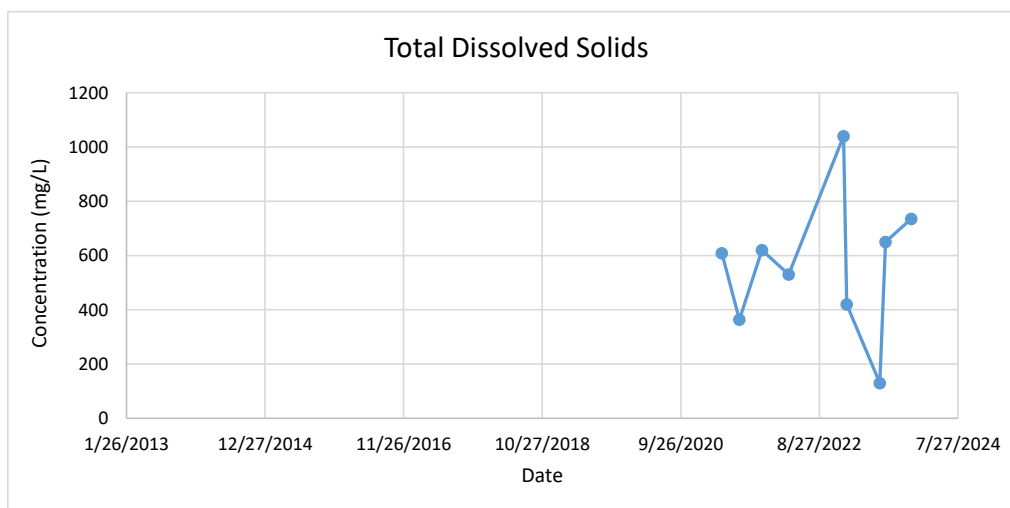
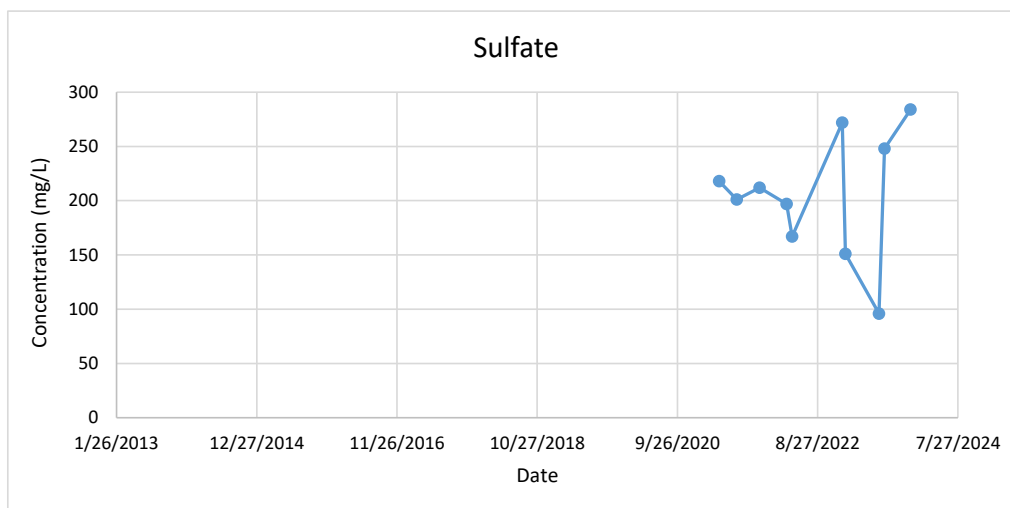
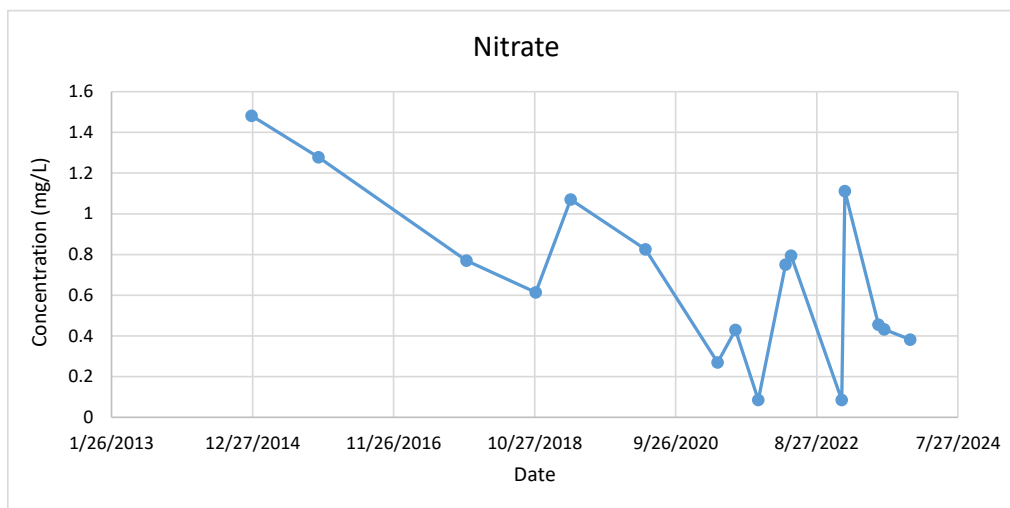
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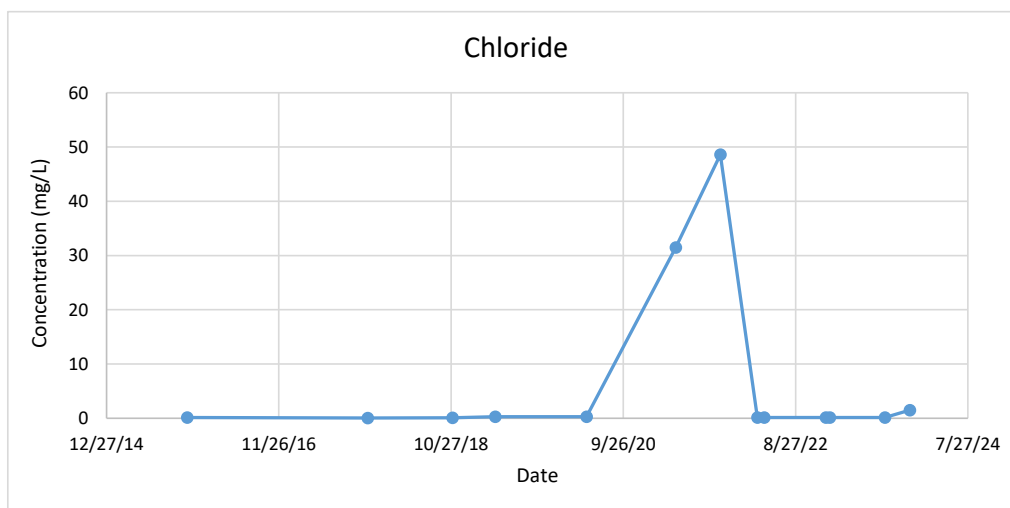
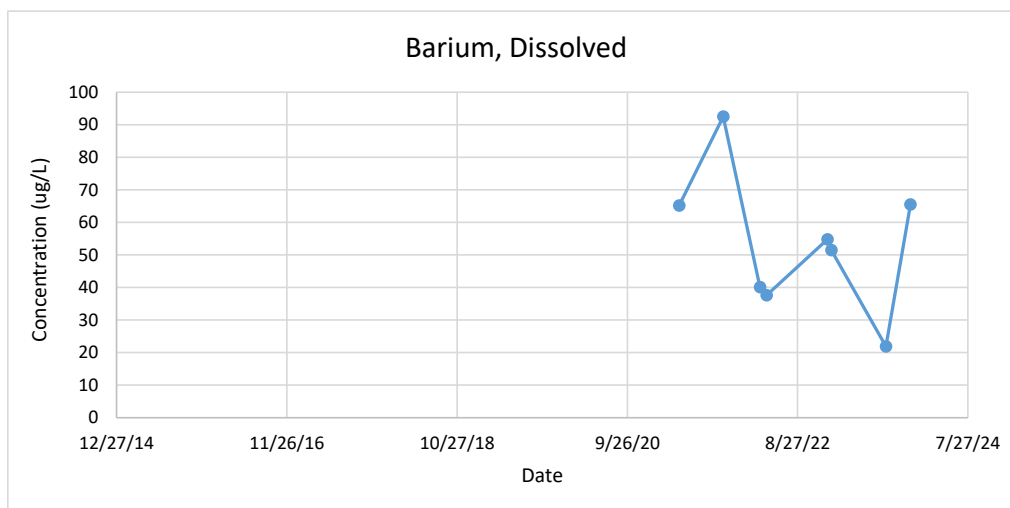
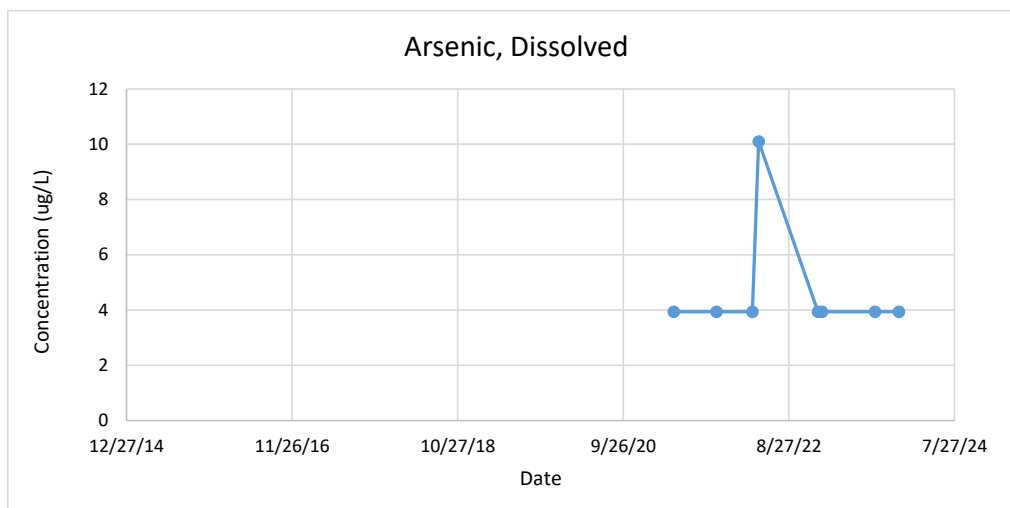
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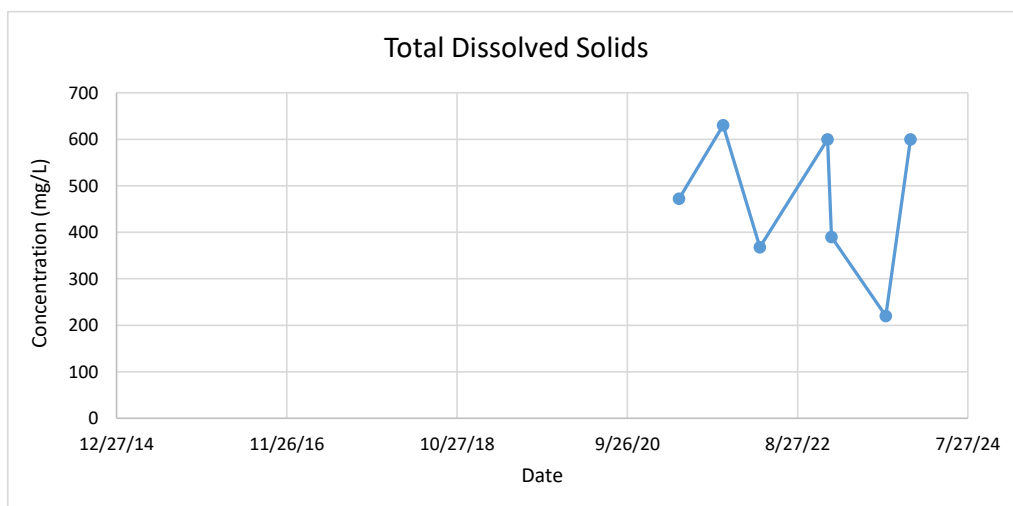
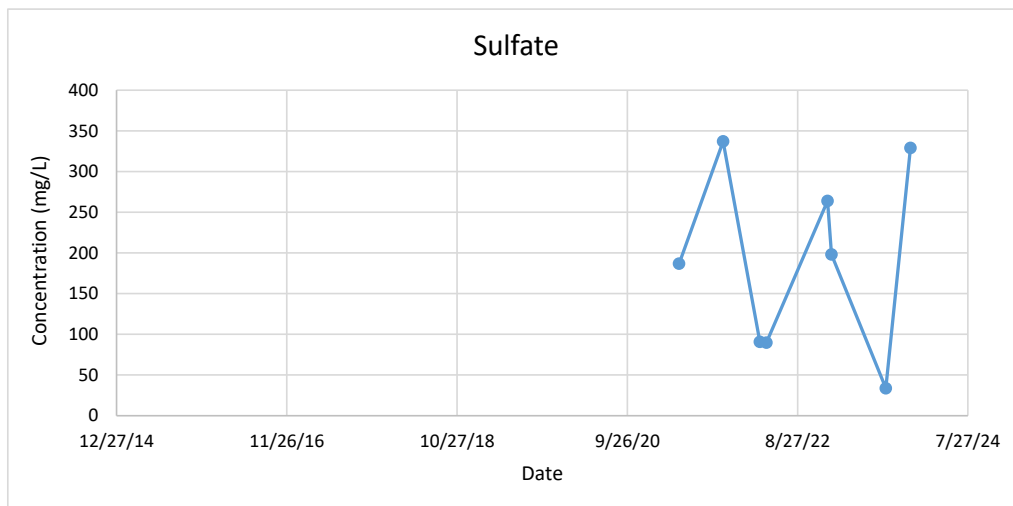
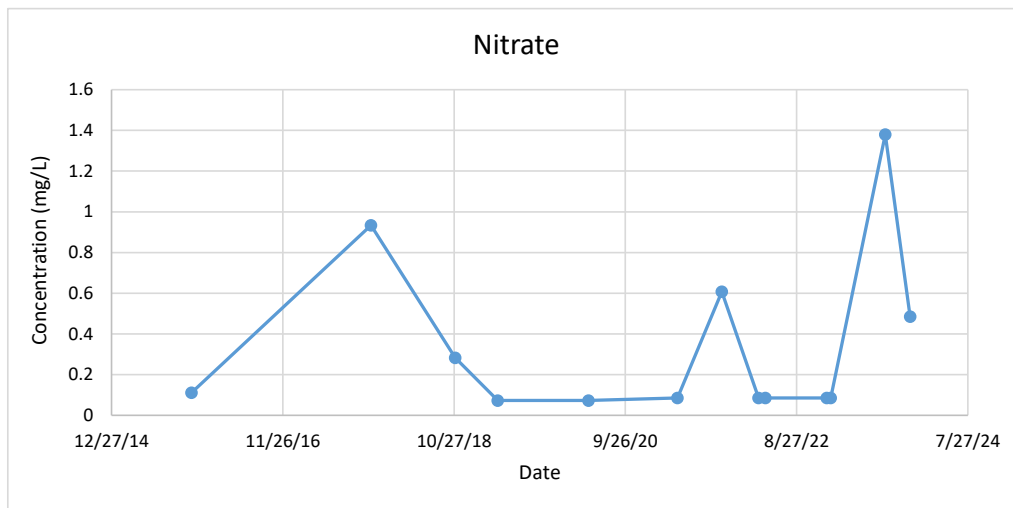
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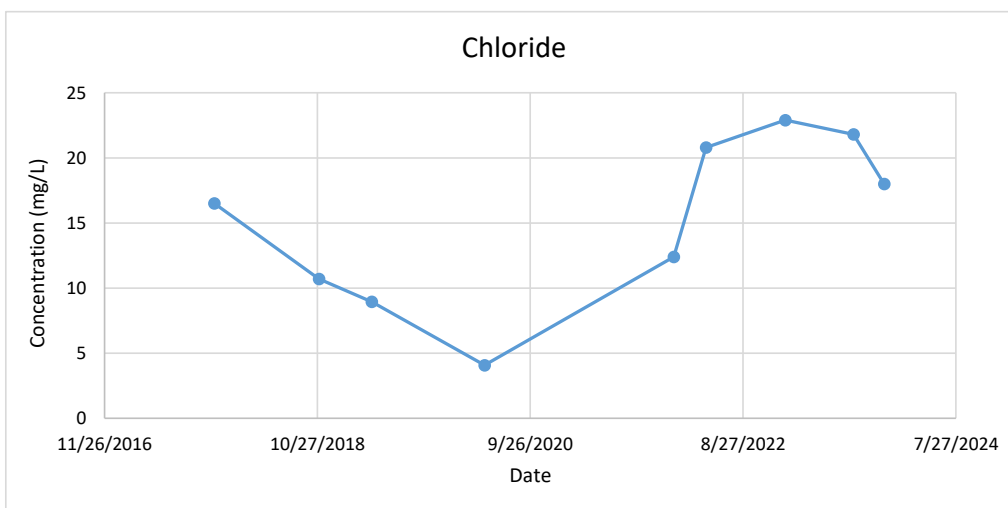
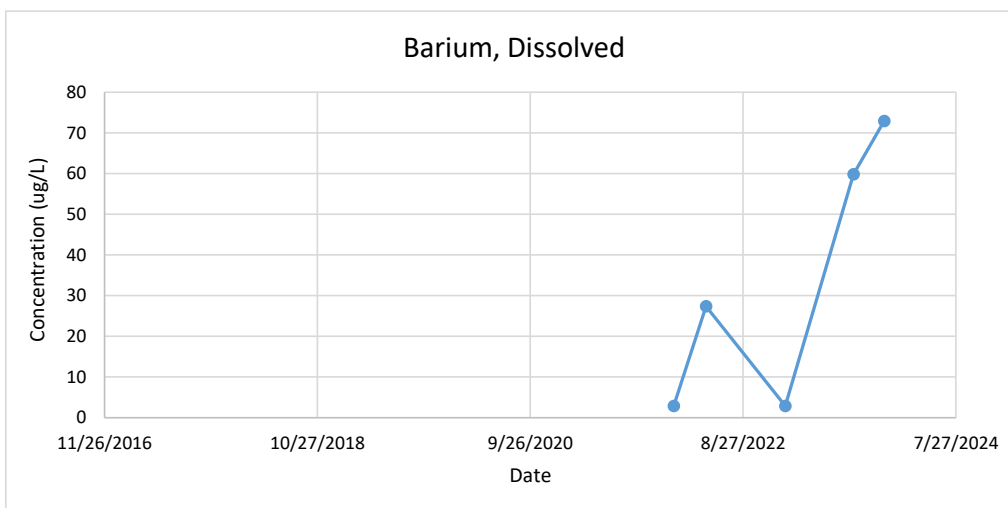
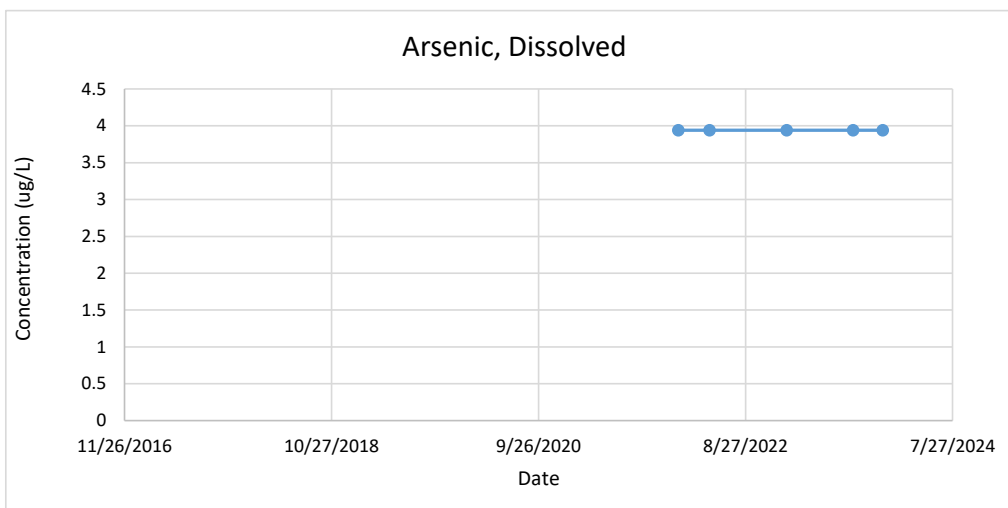
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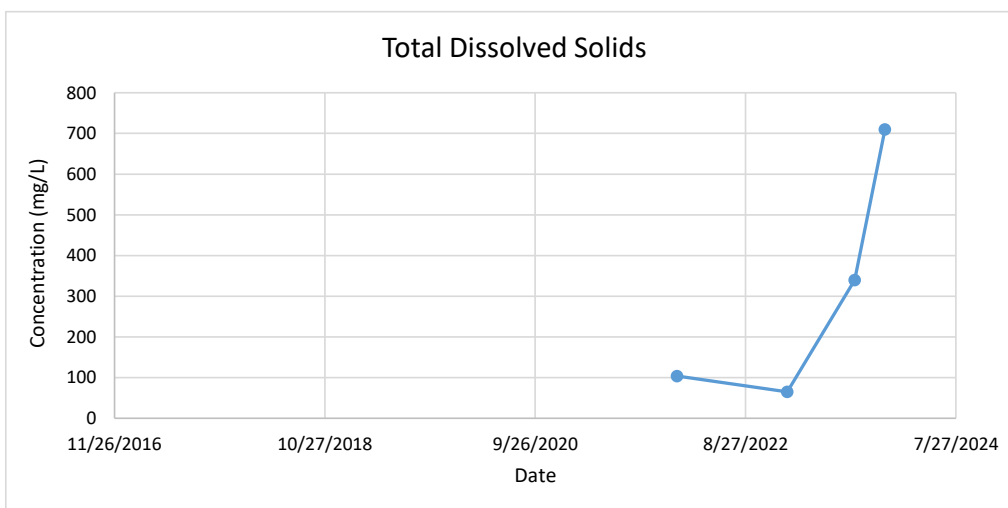
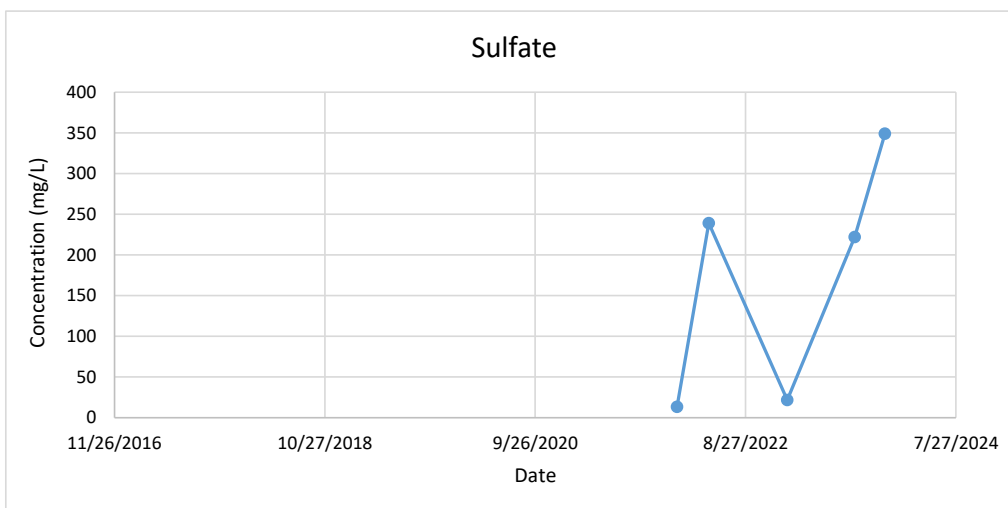
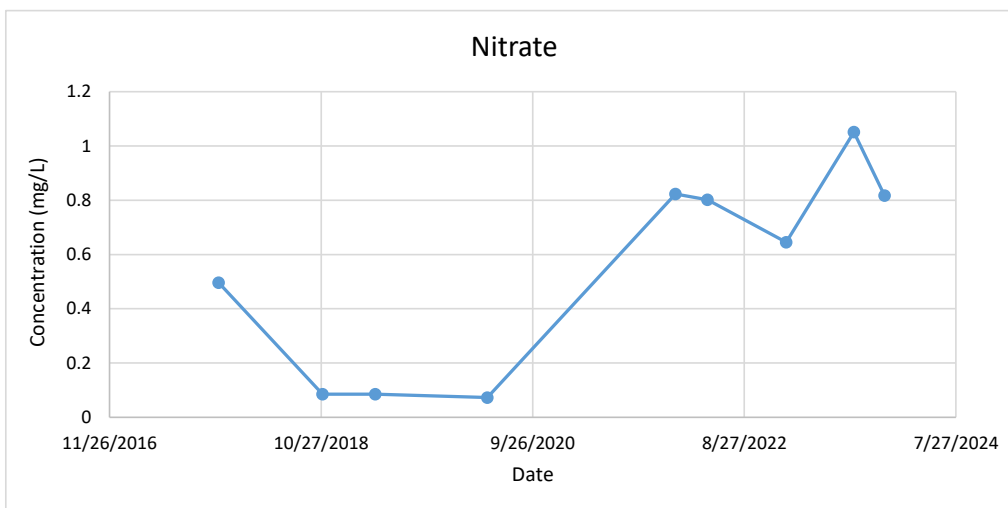
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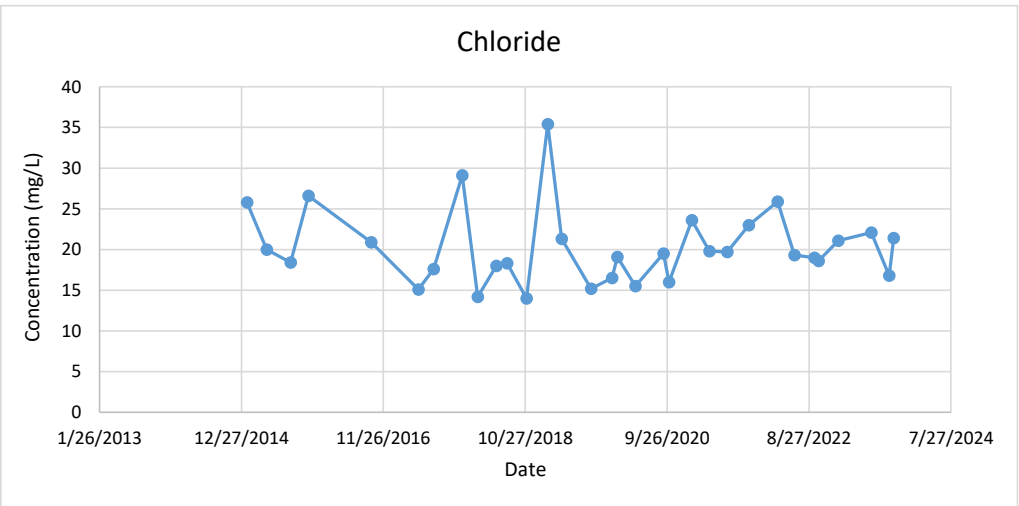
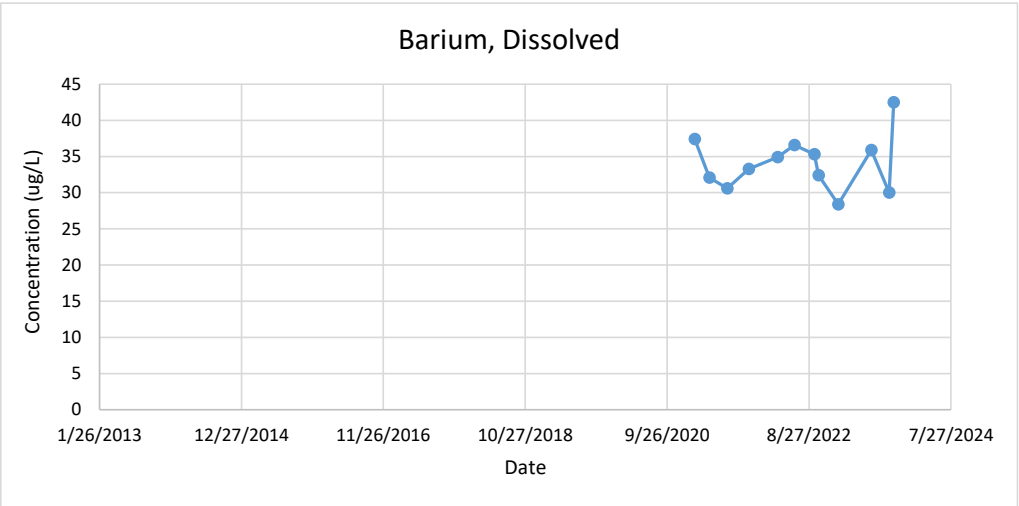
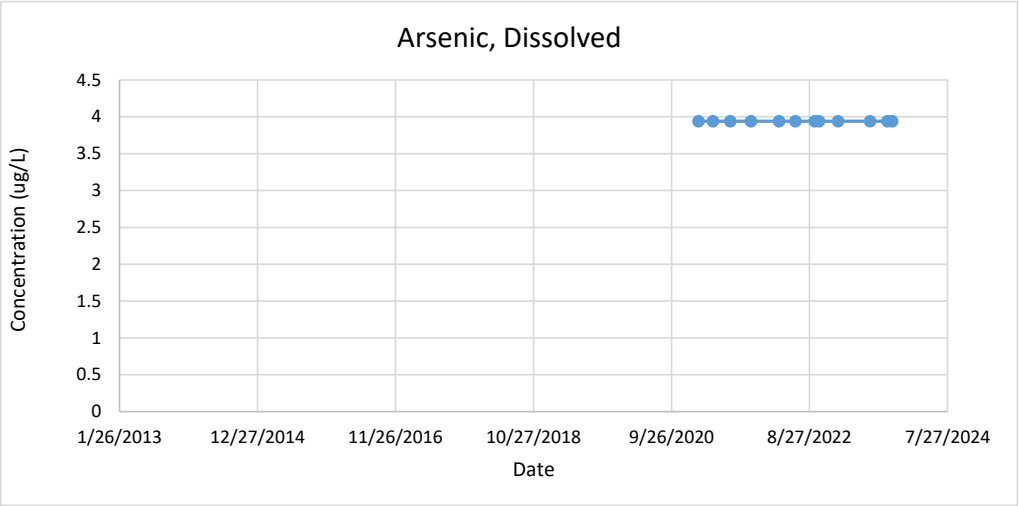
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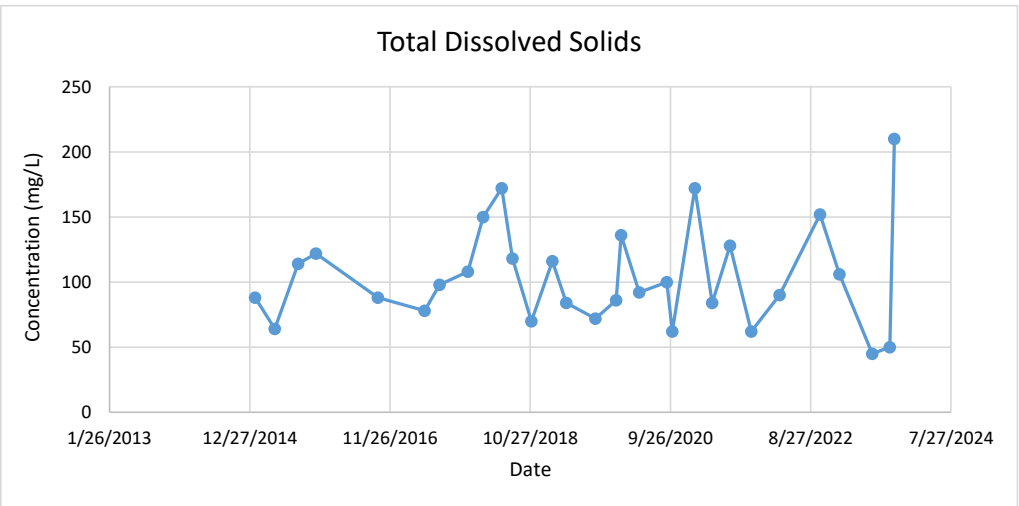
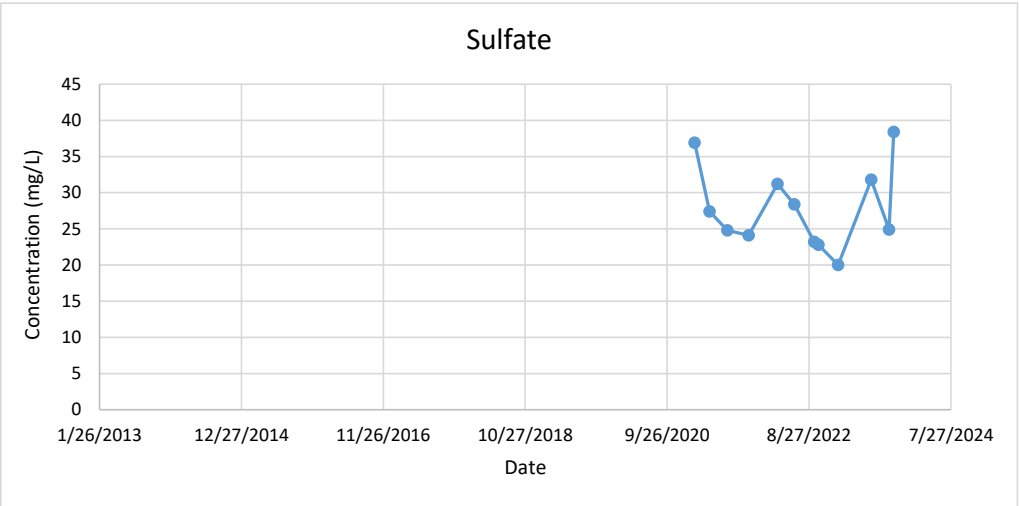
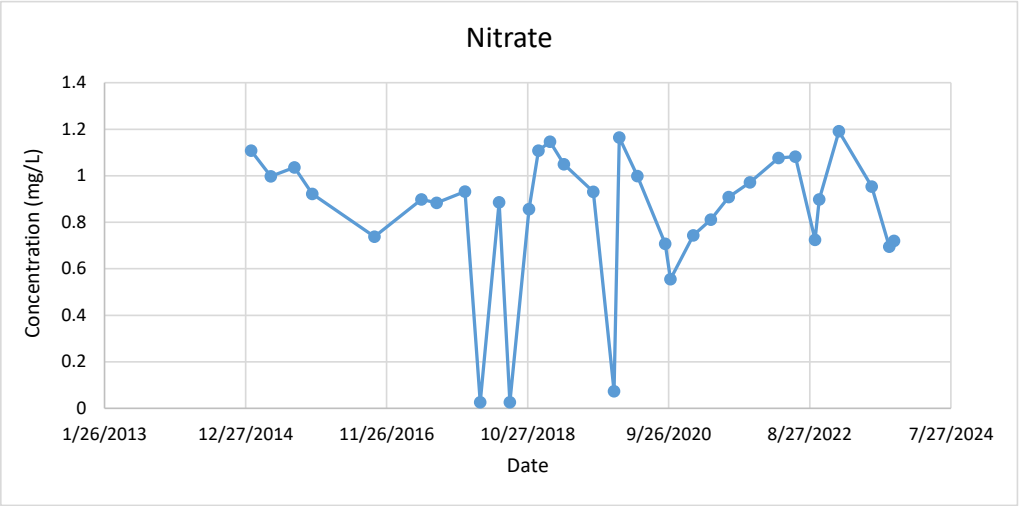


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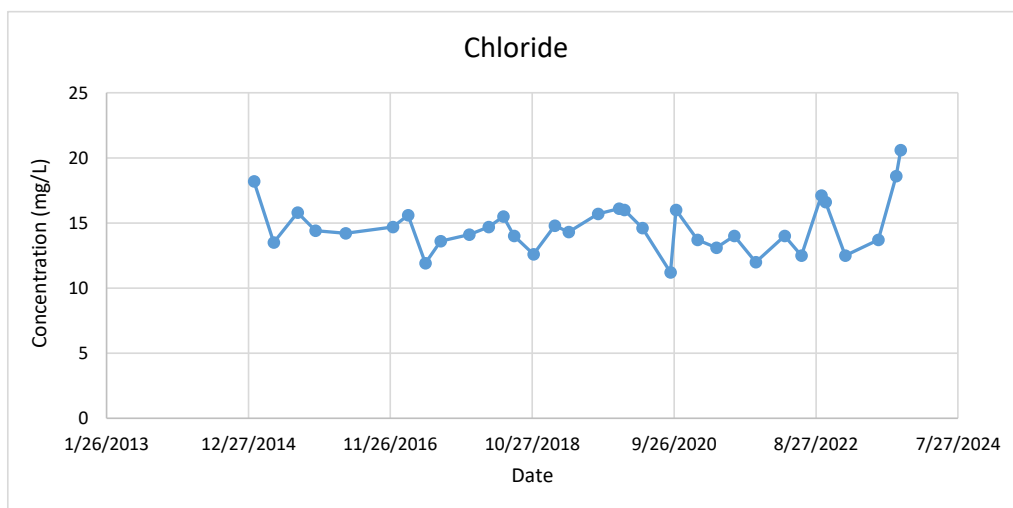
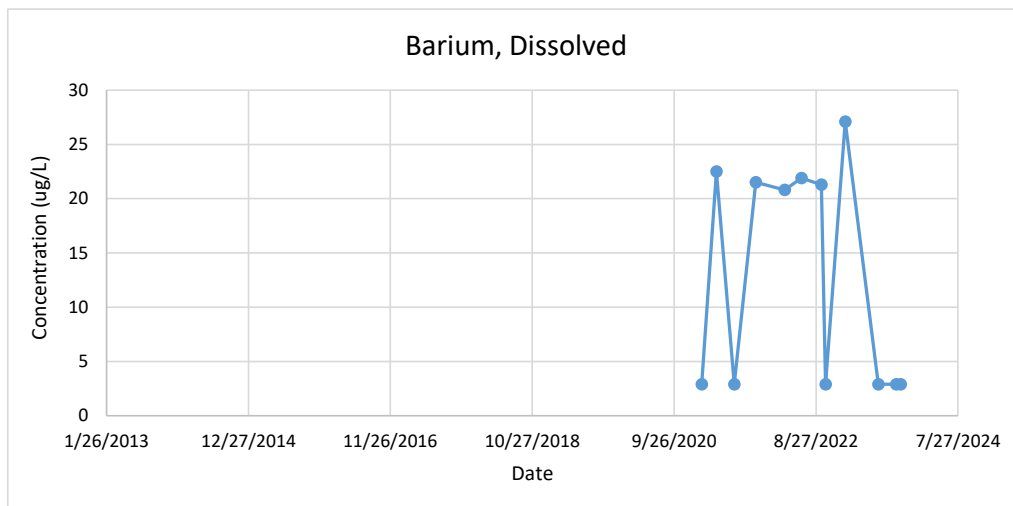
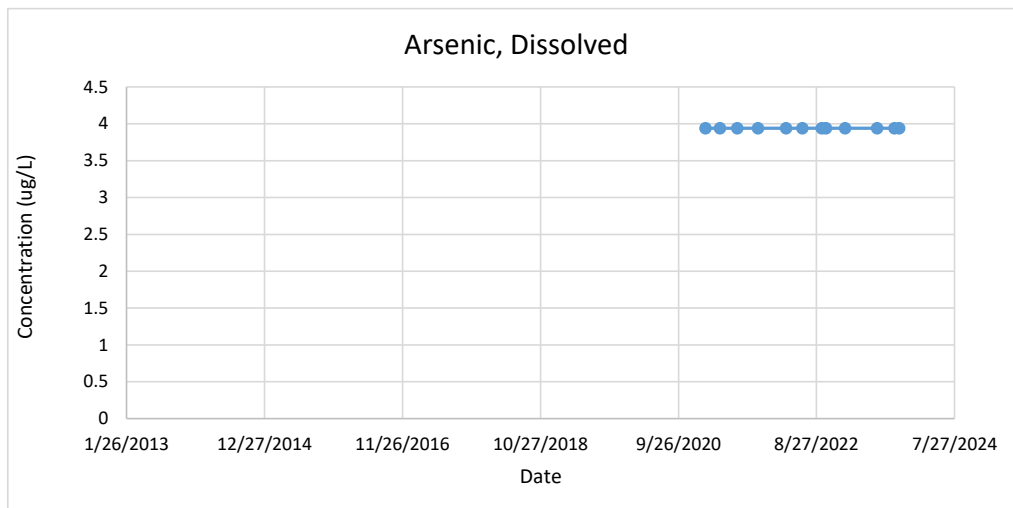


RESIDENTIAL WELLS

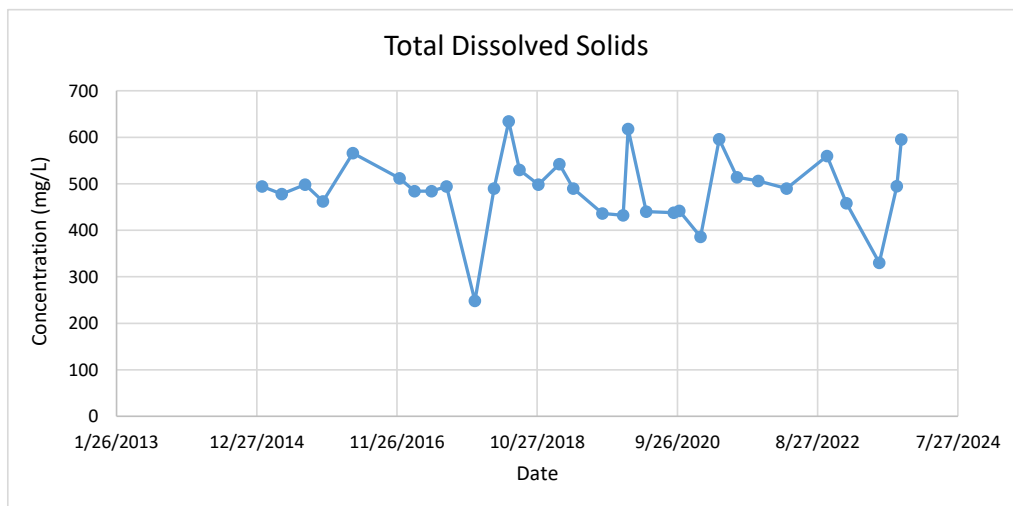
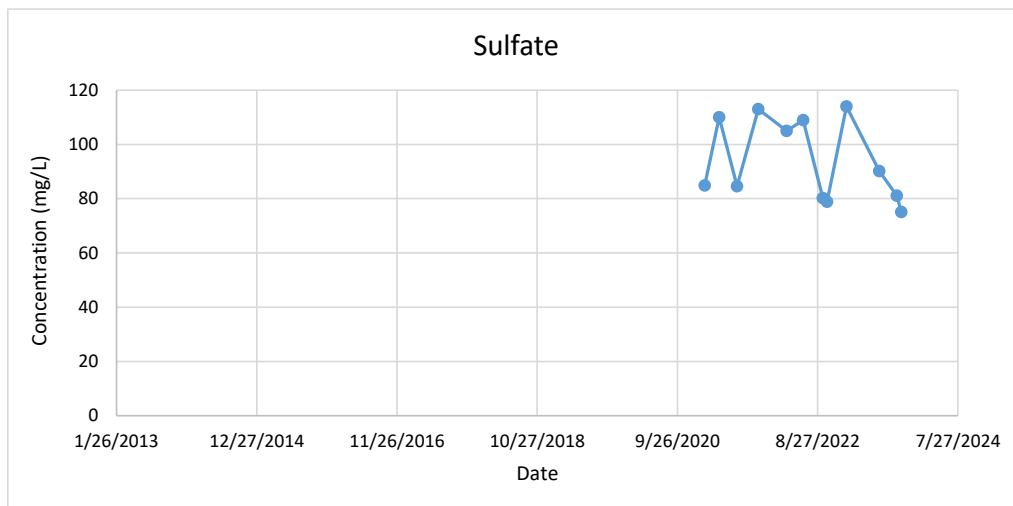
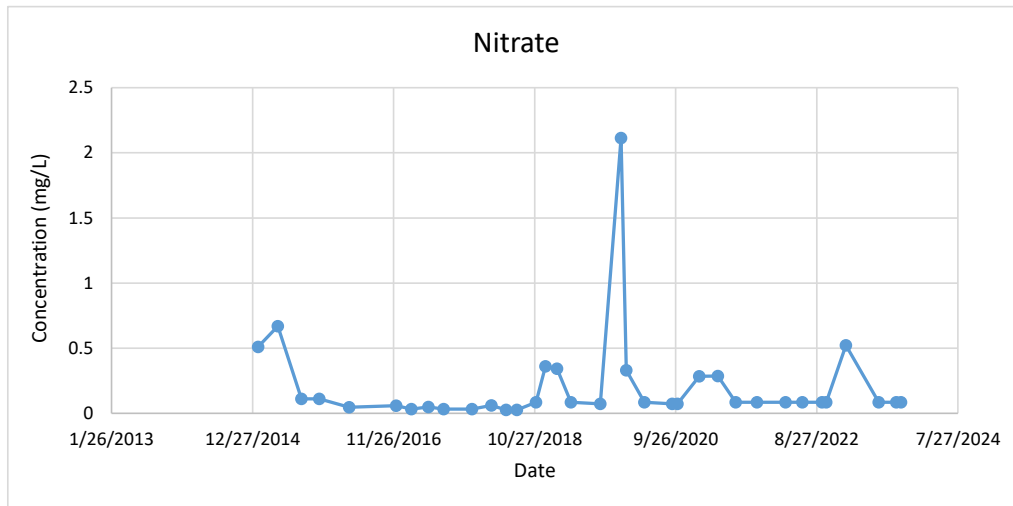




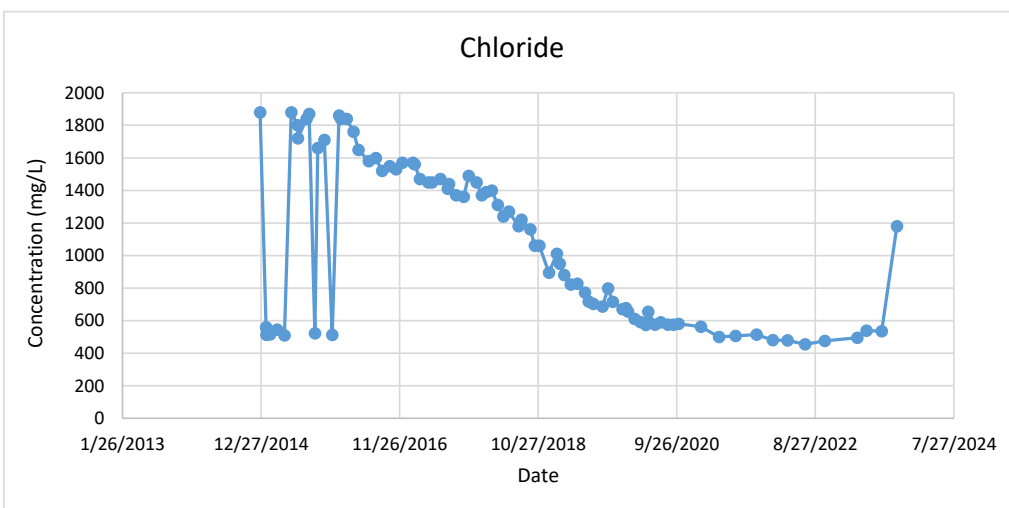
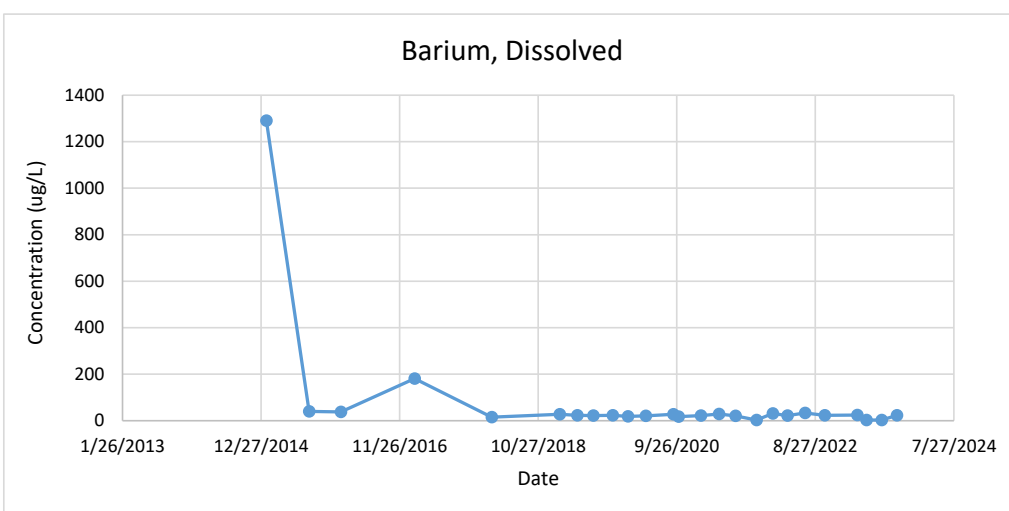
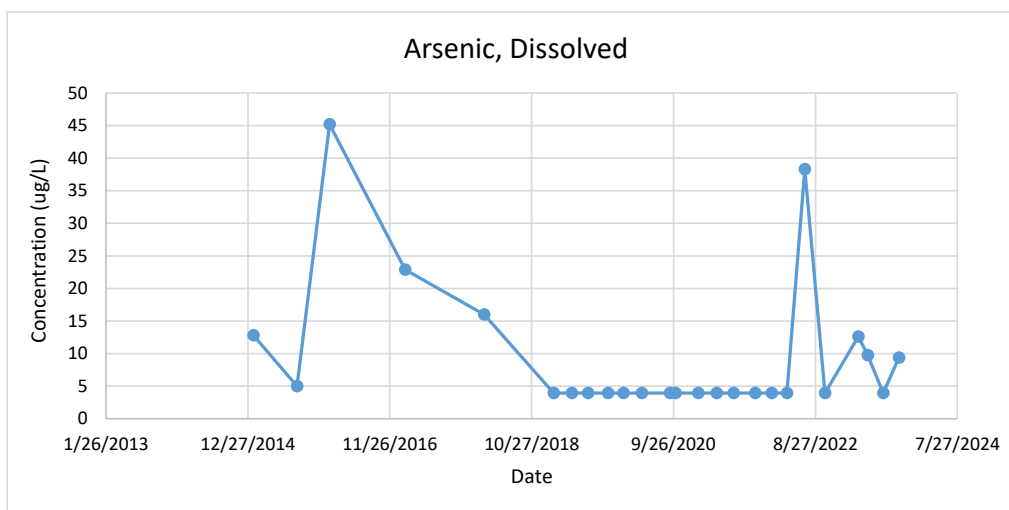
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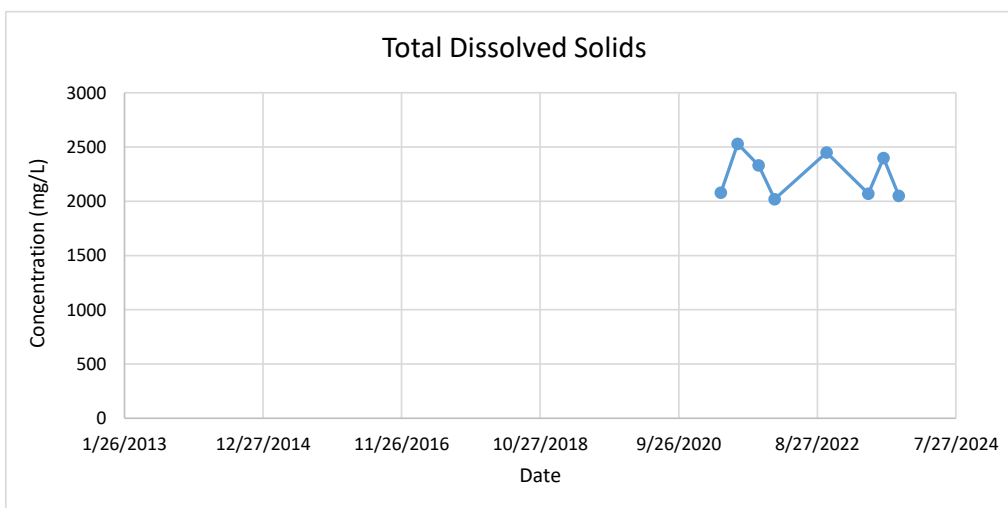
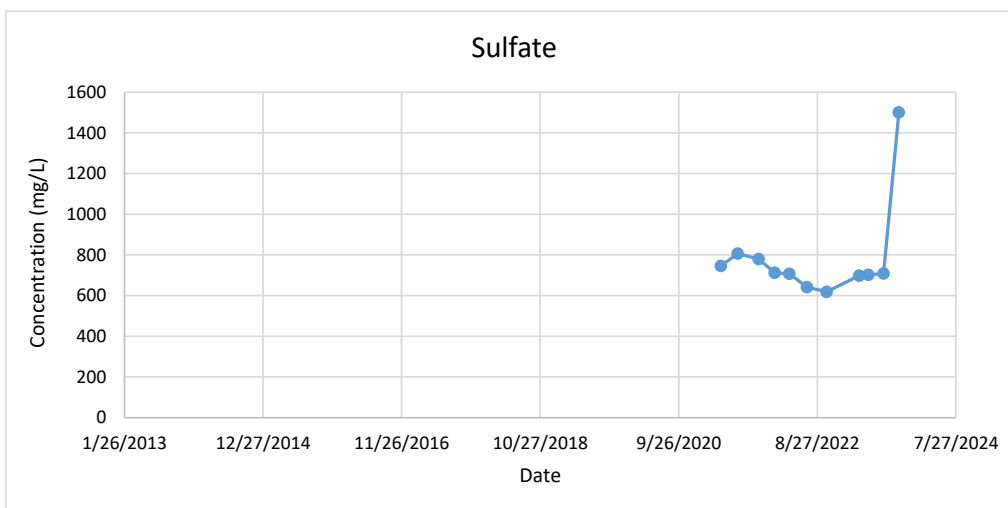
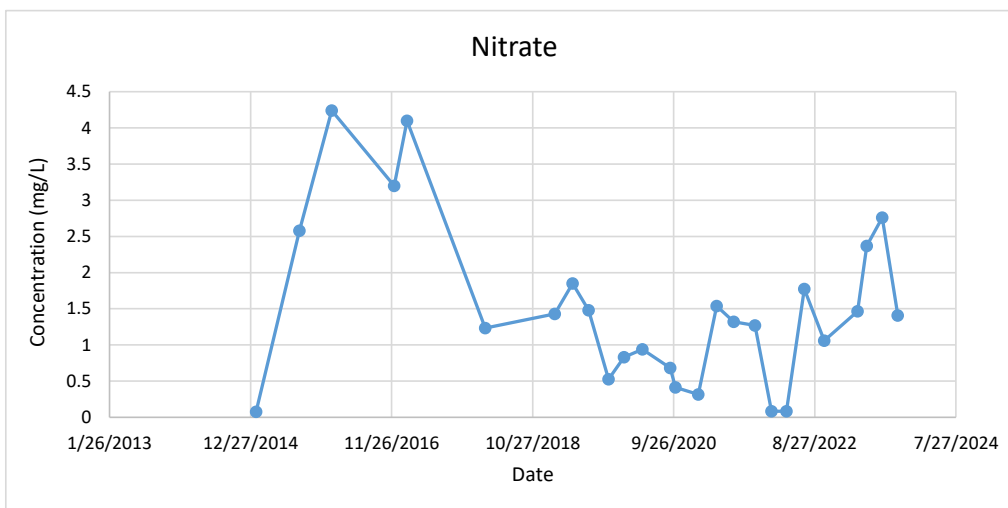


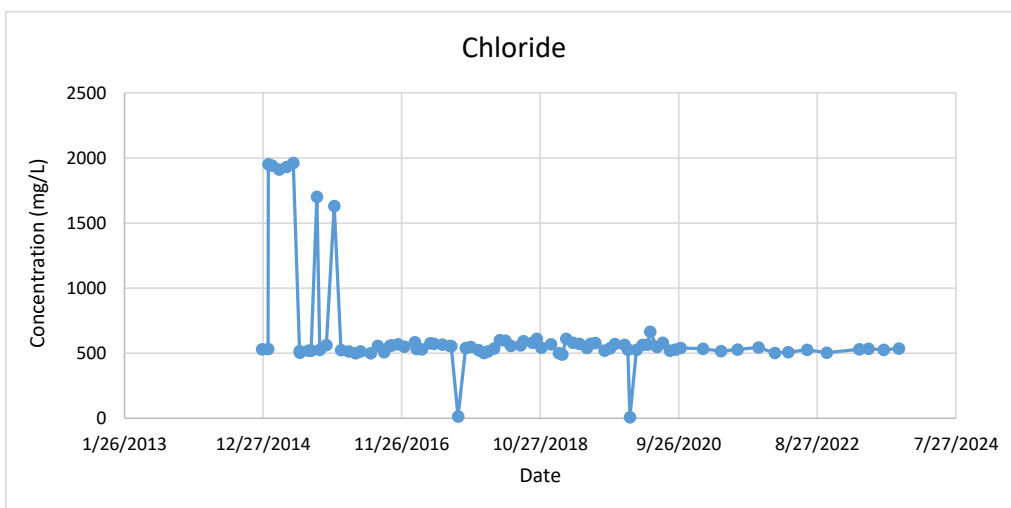
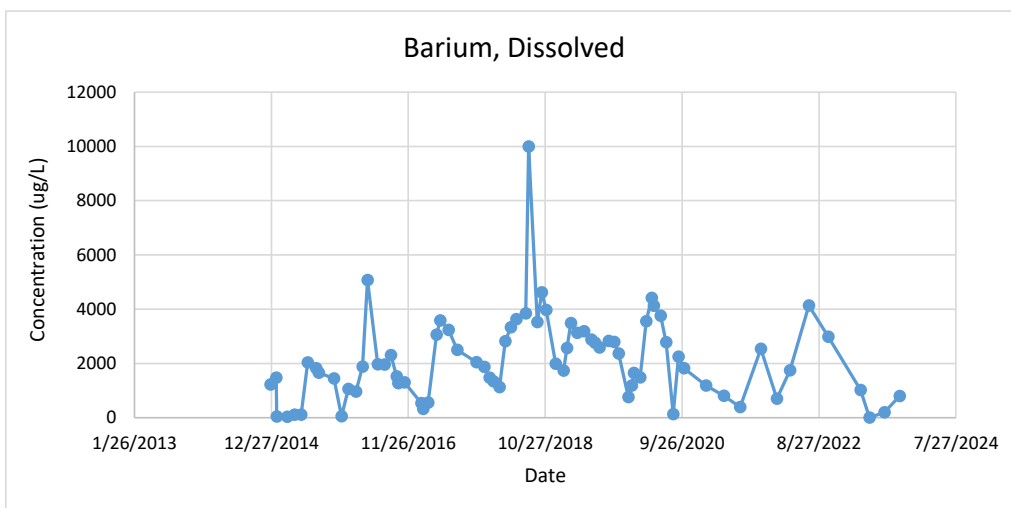
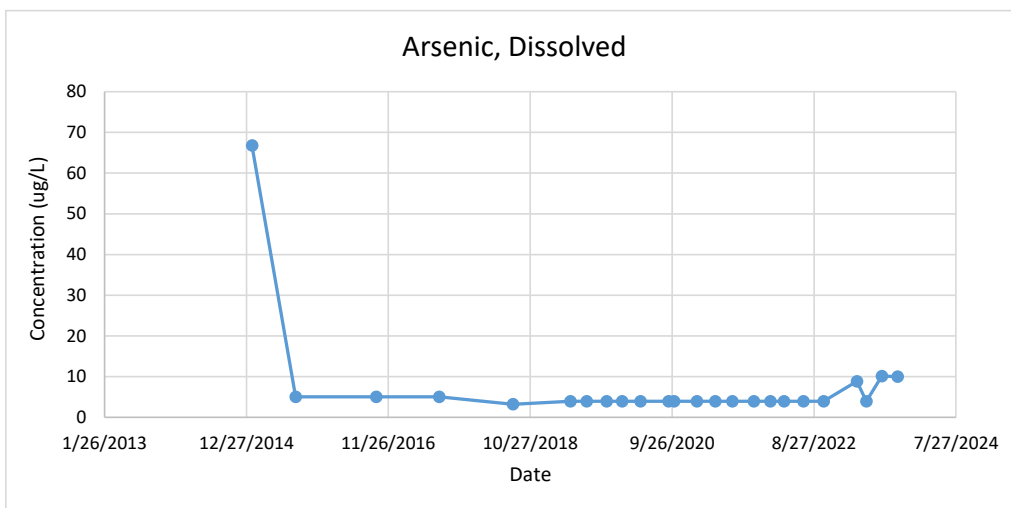
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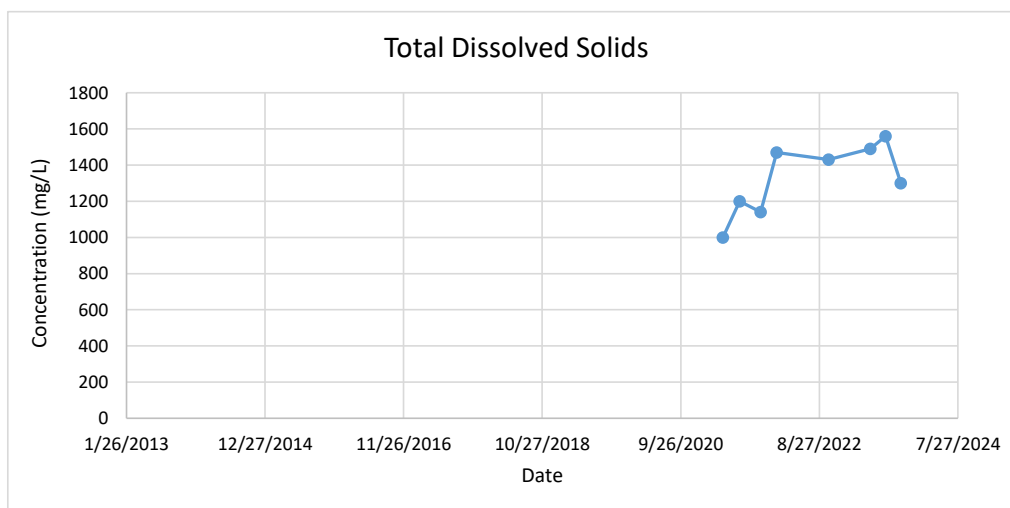
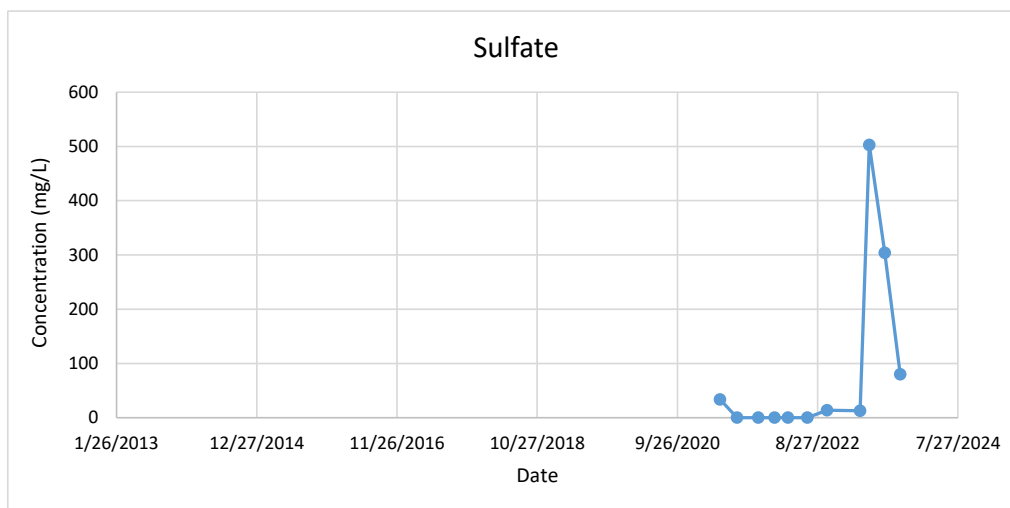
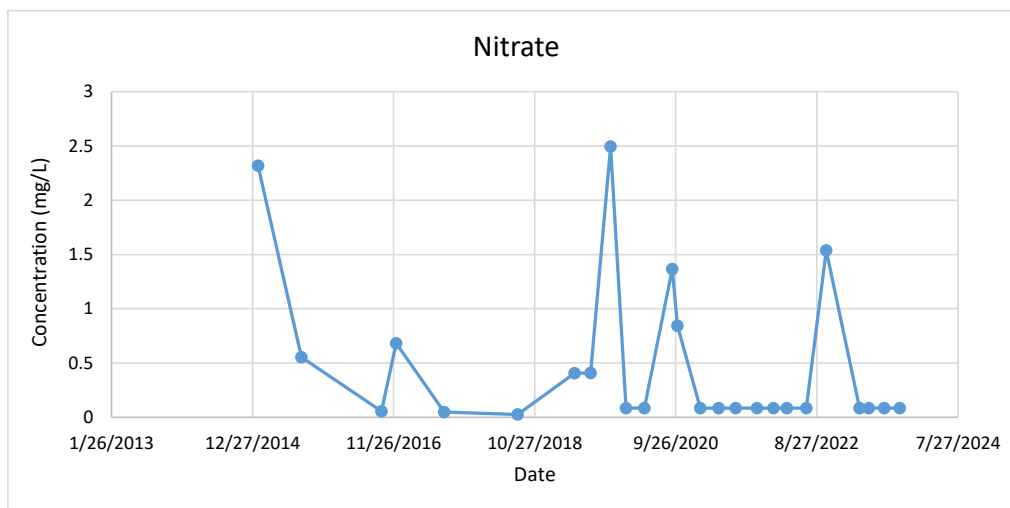
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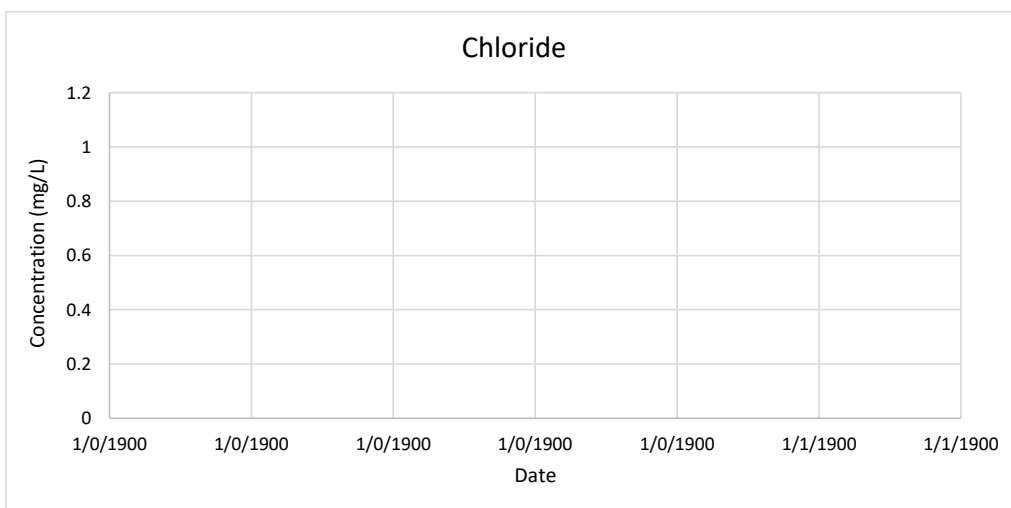
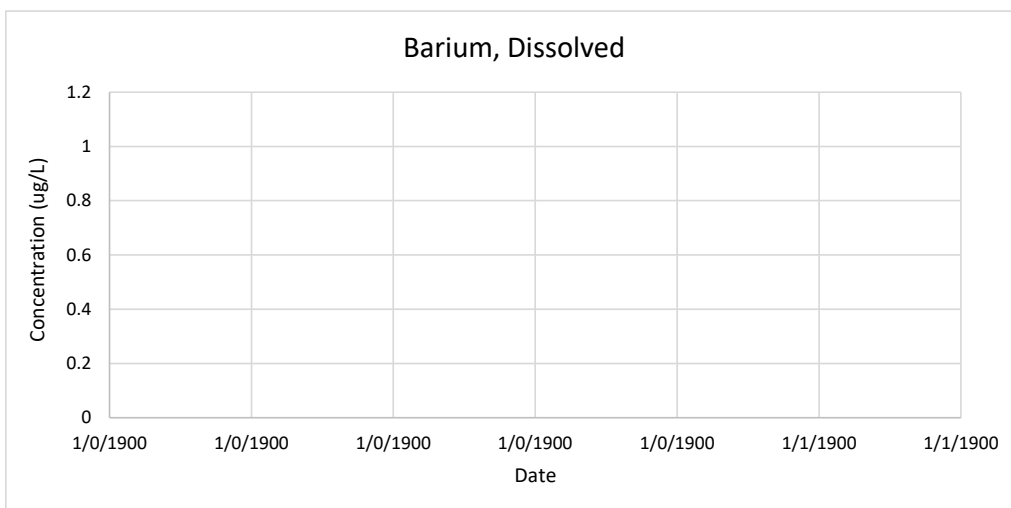
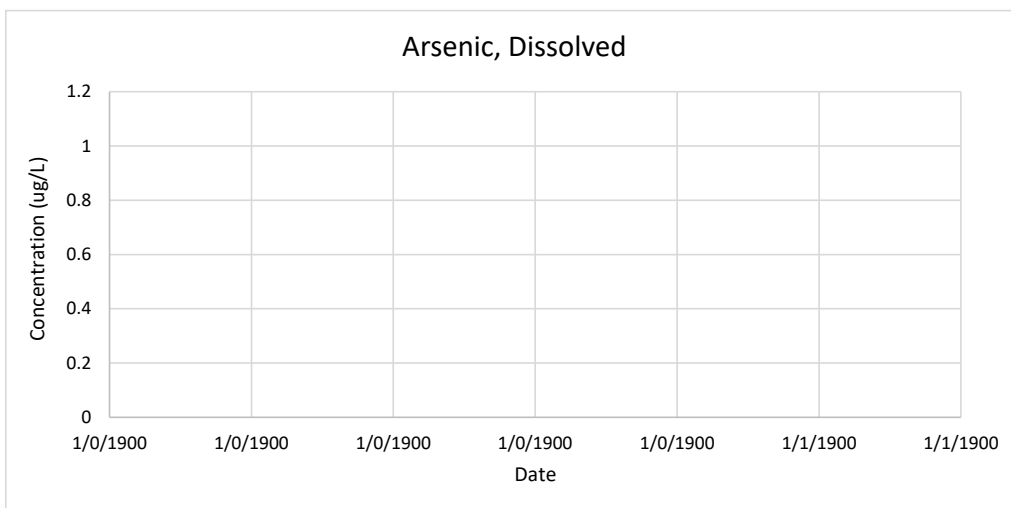
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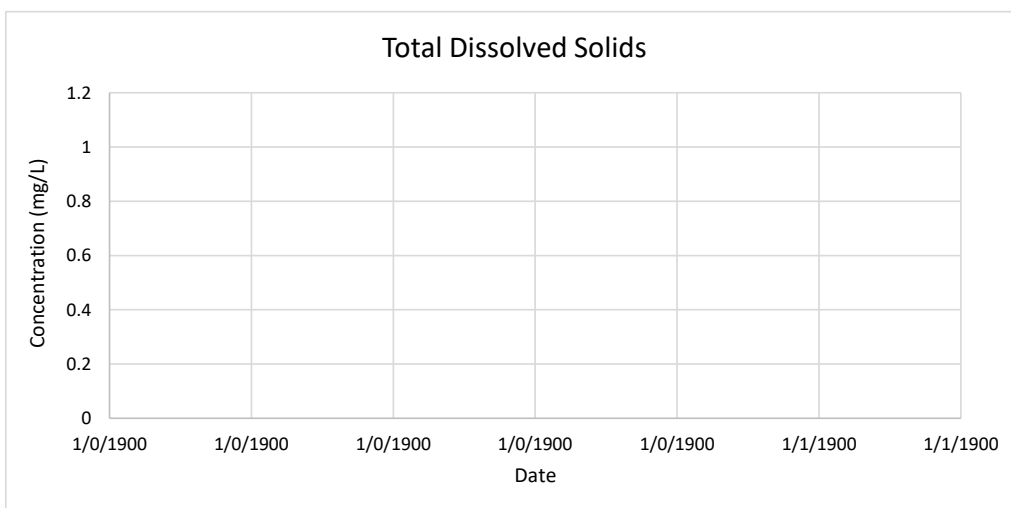
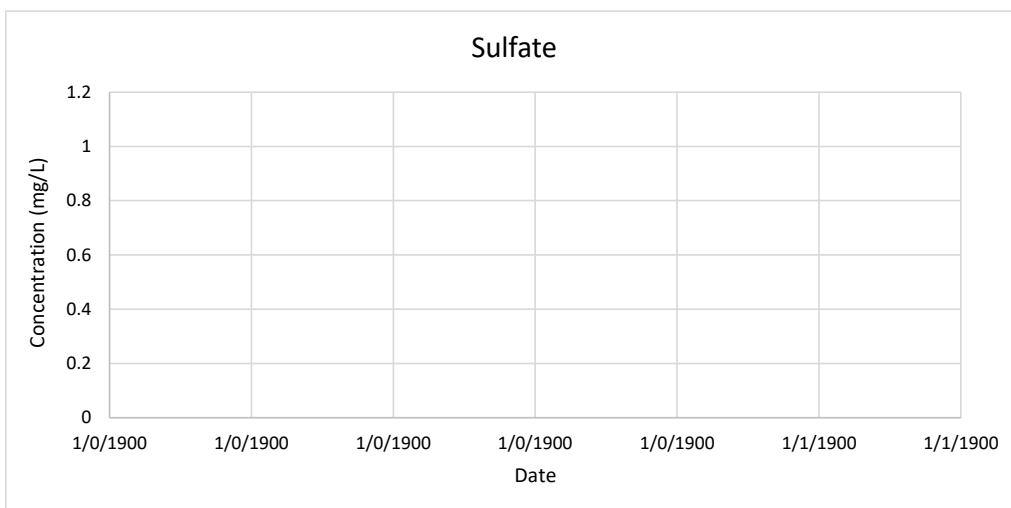
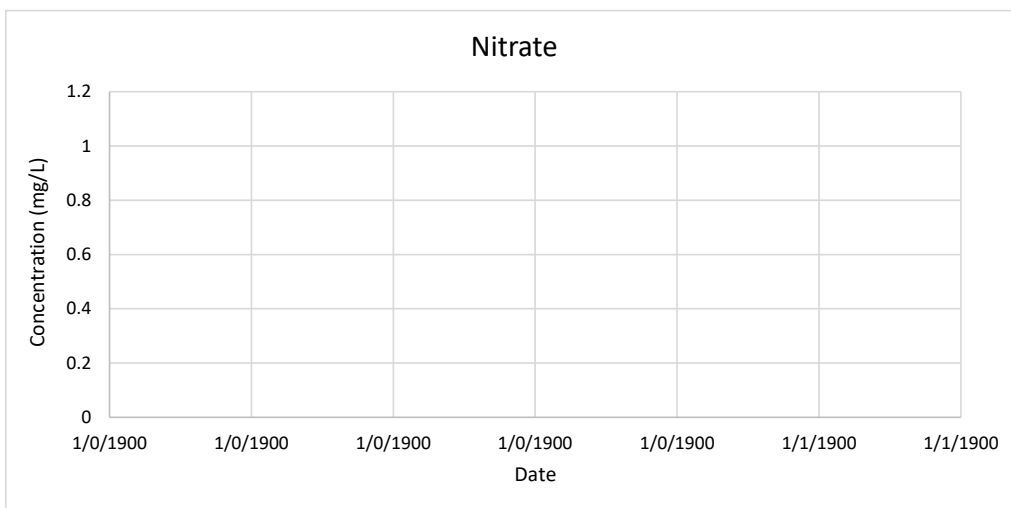


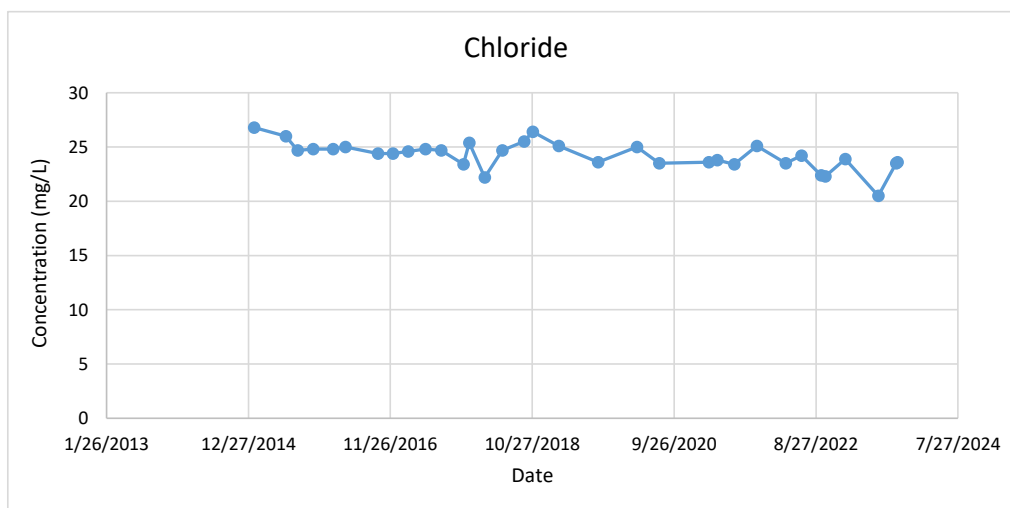
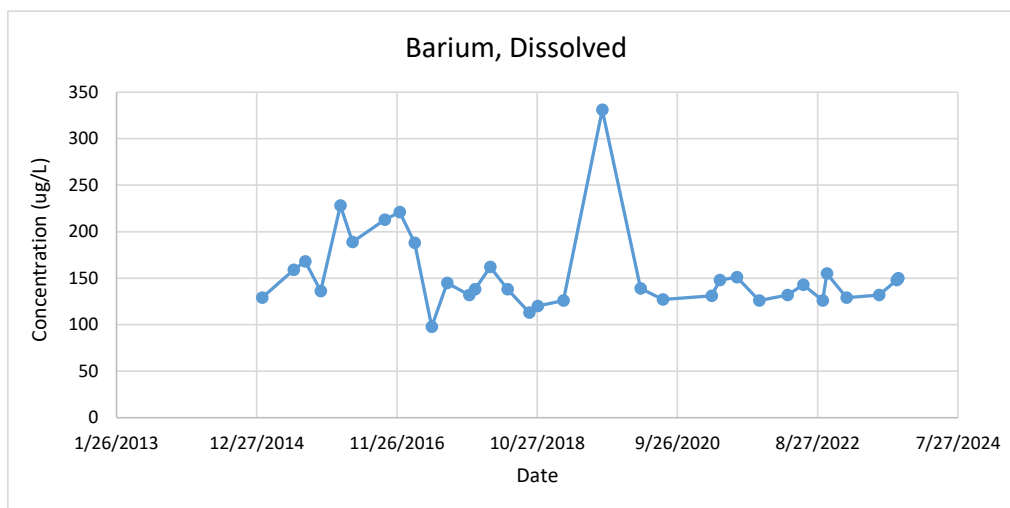
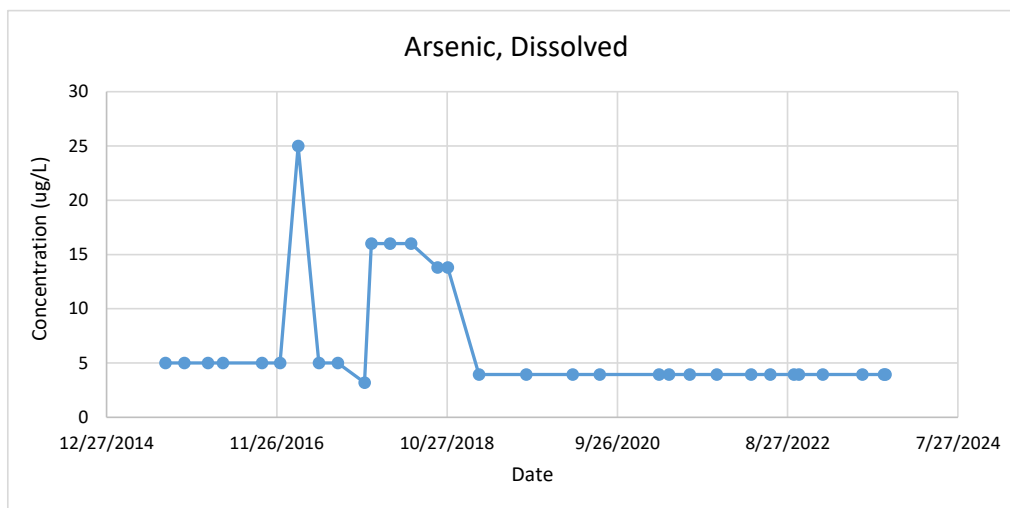


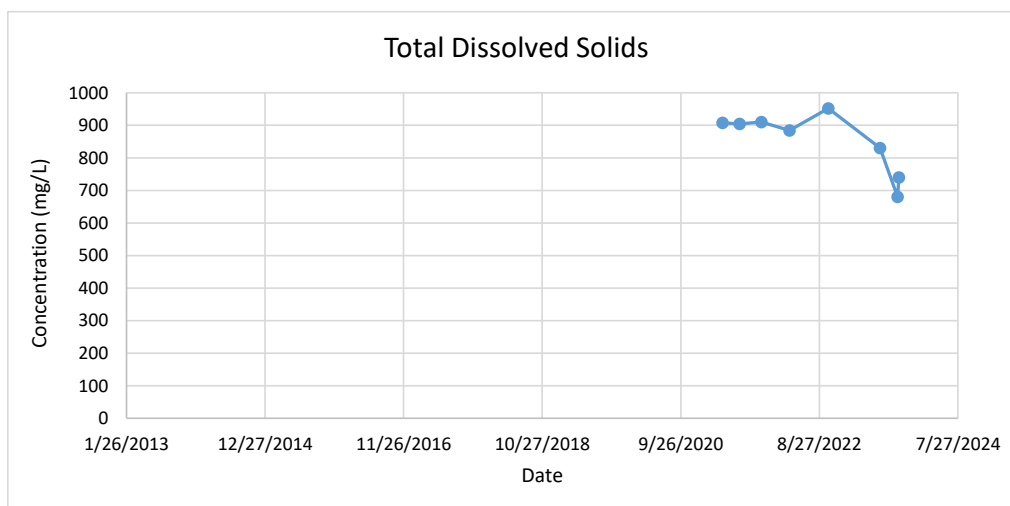
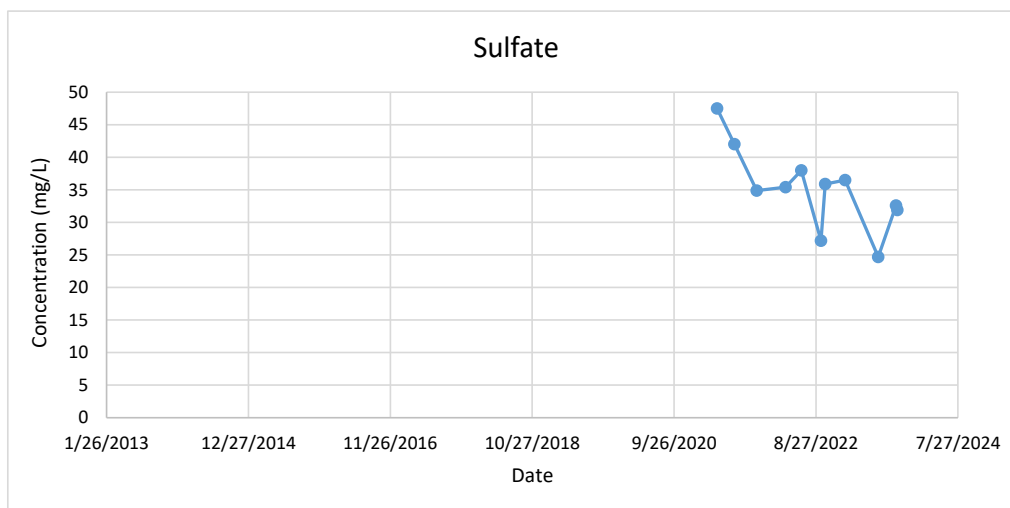
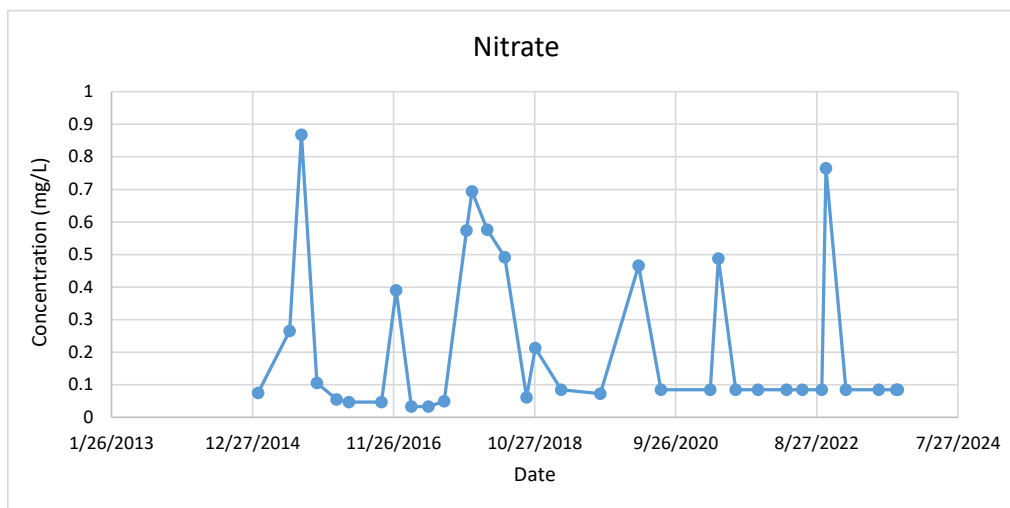
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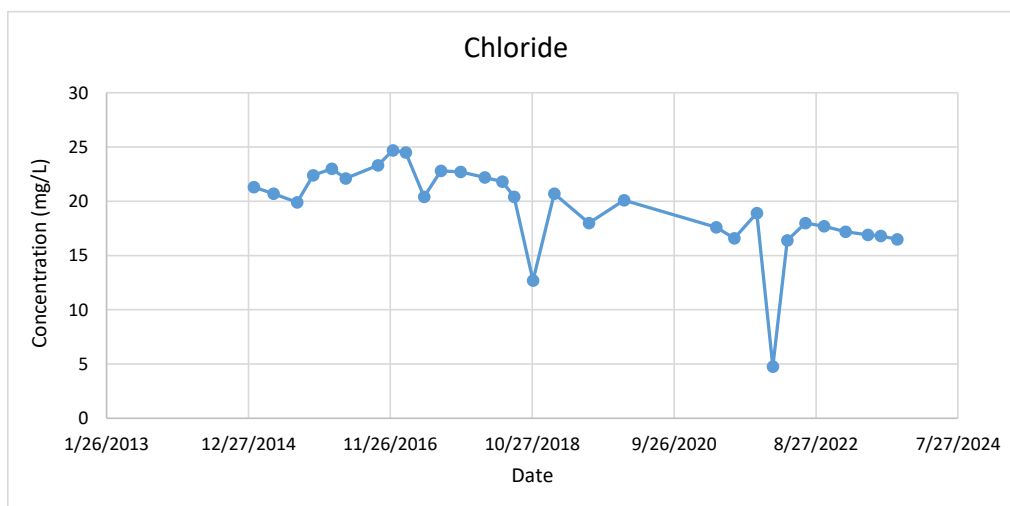
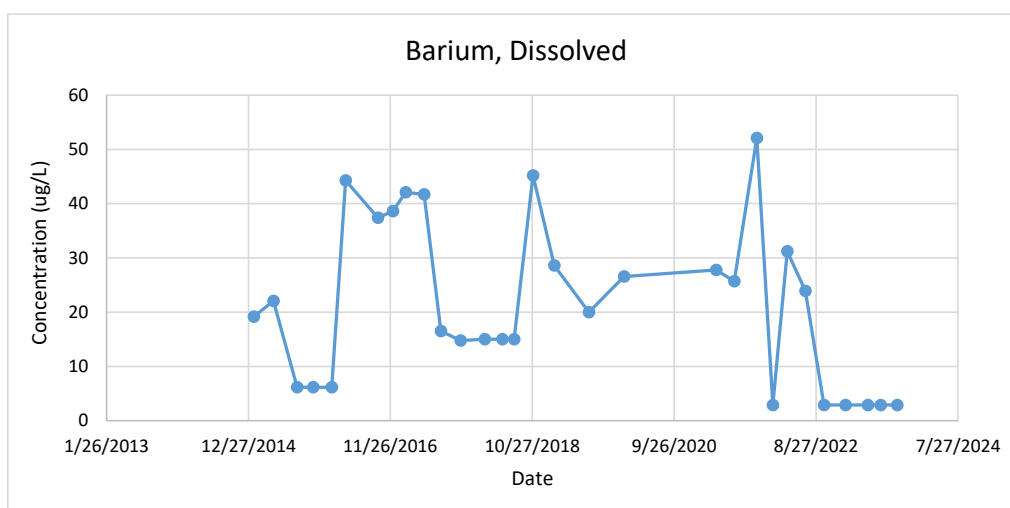
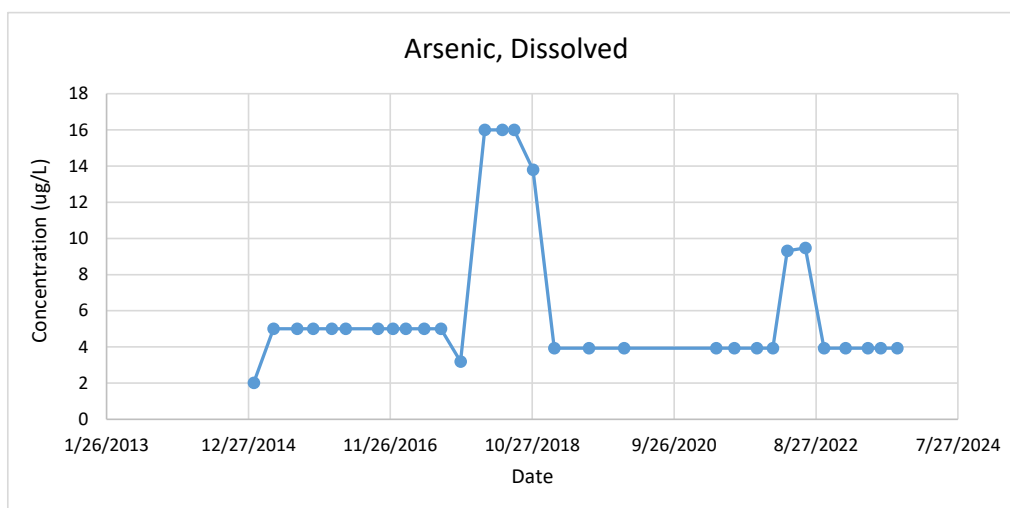


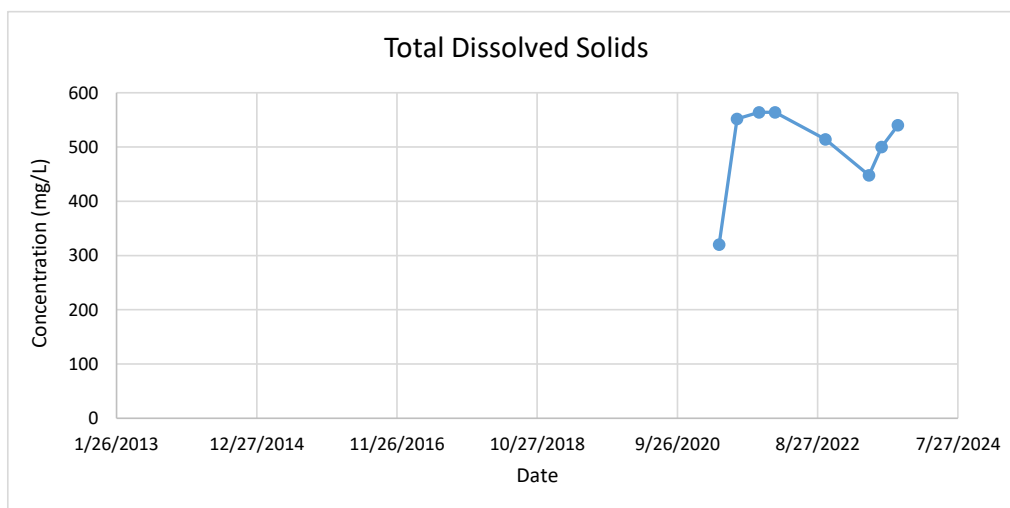
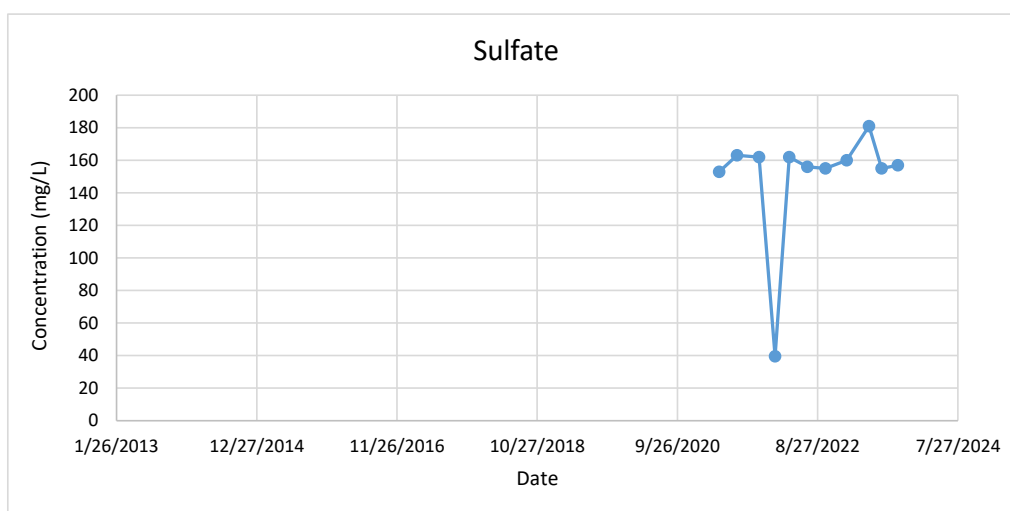
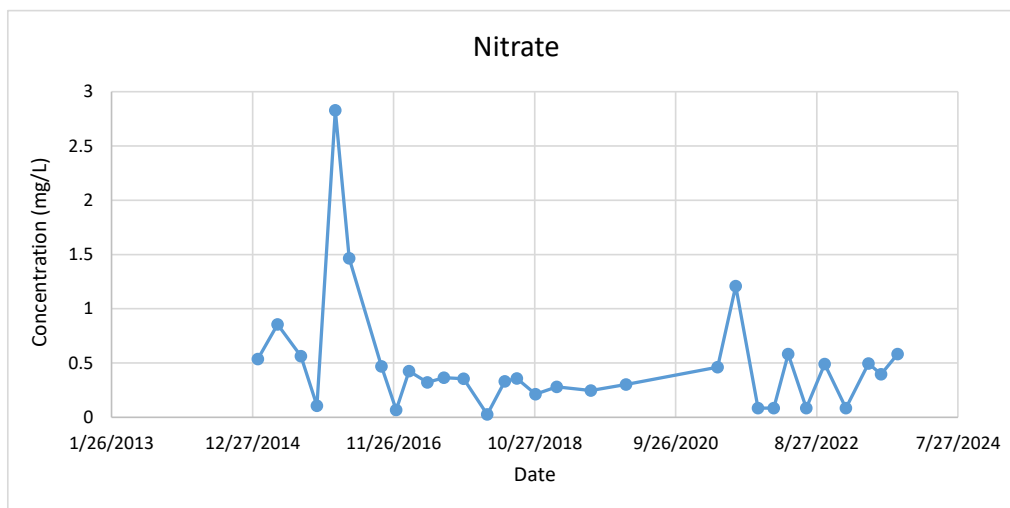


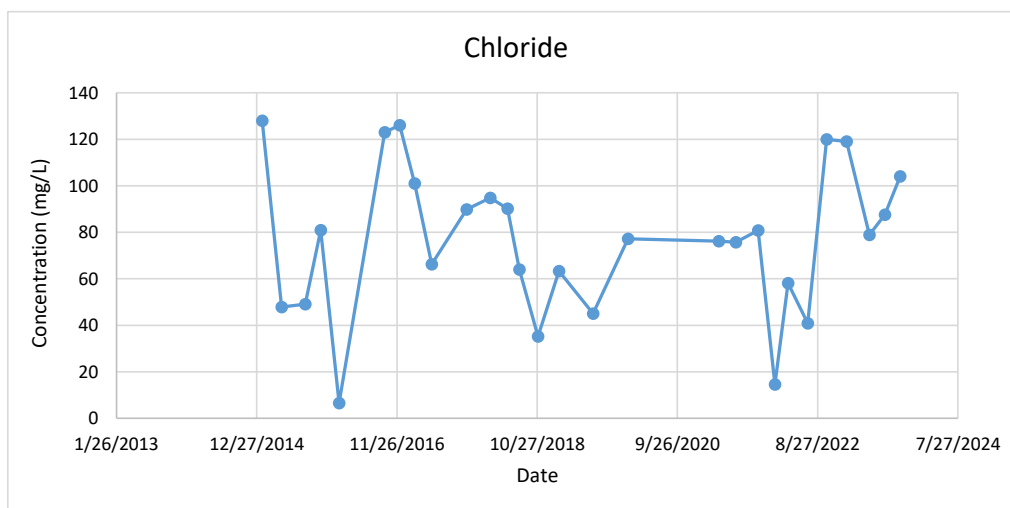
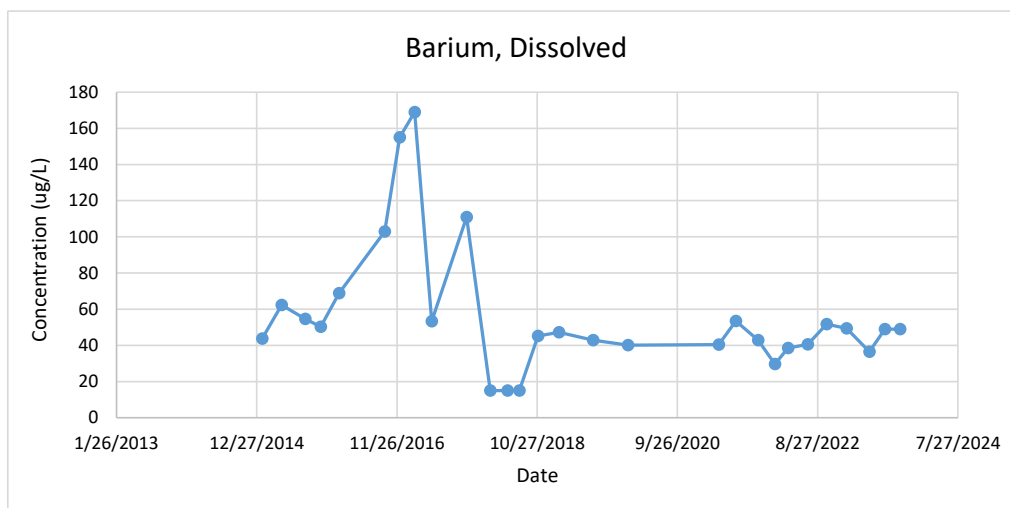
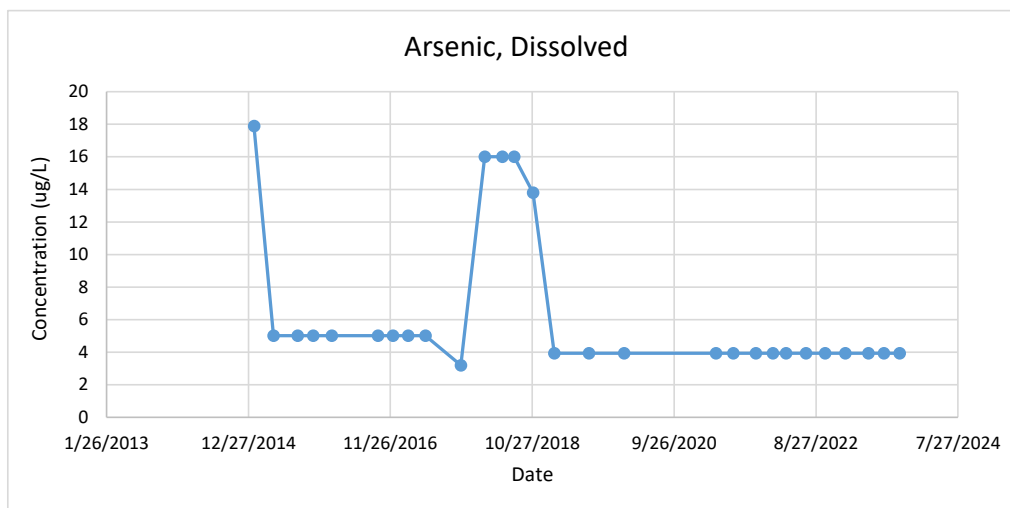


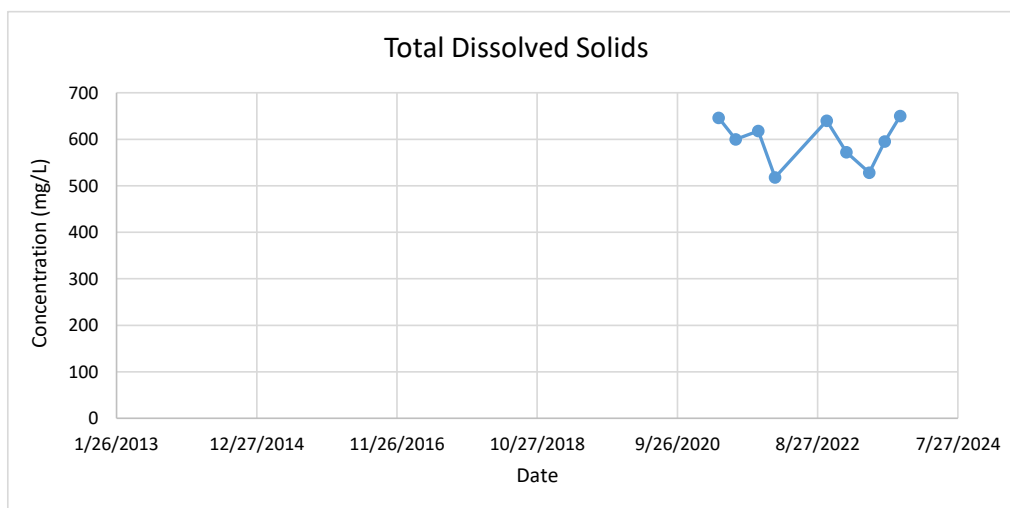
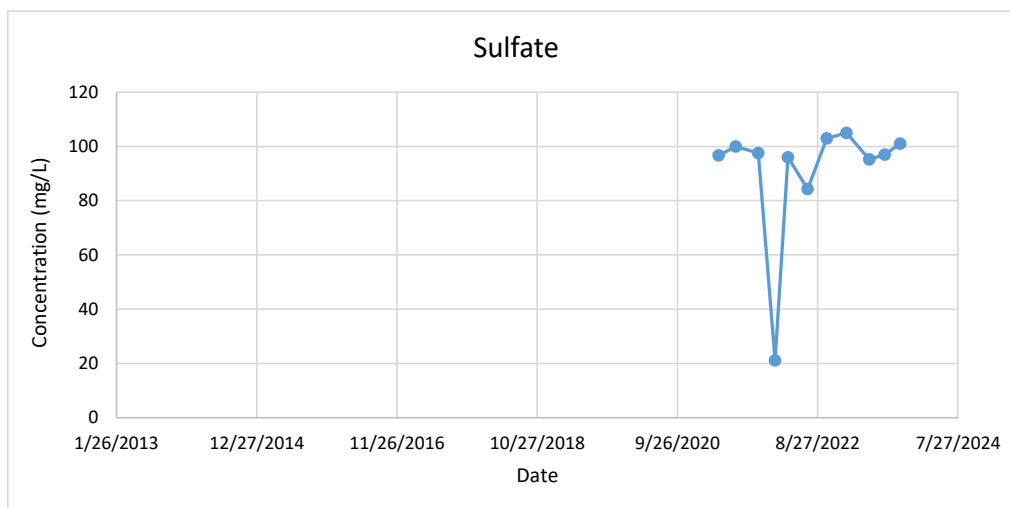
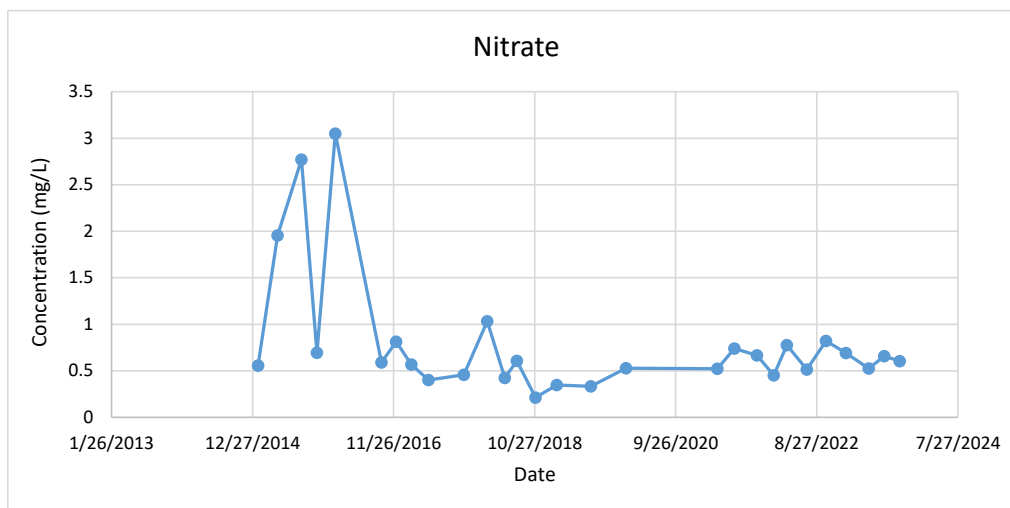




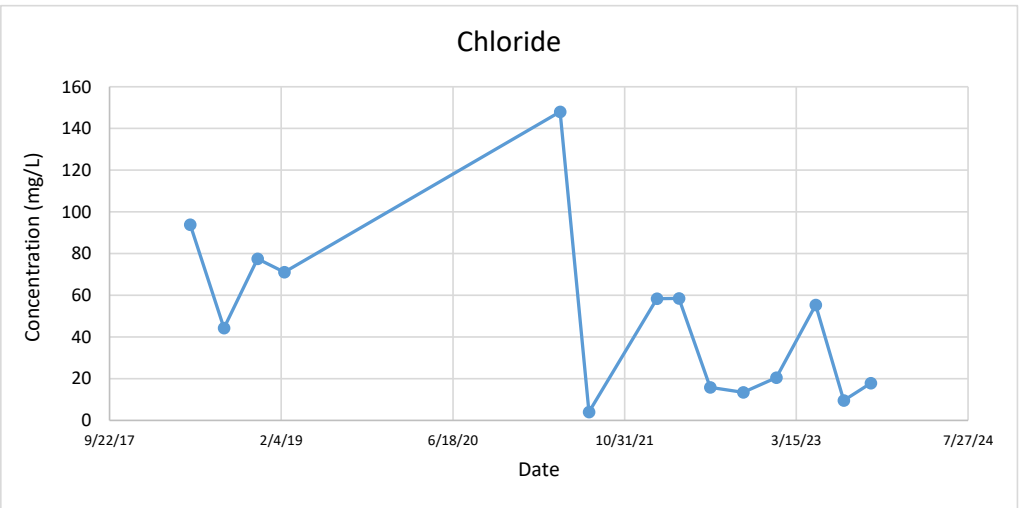
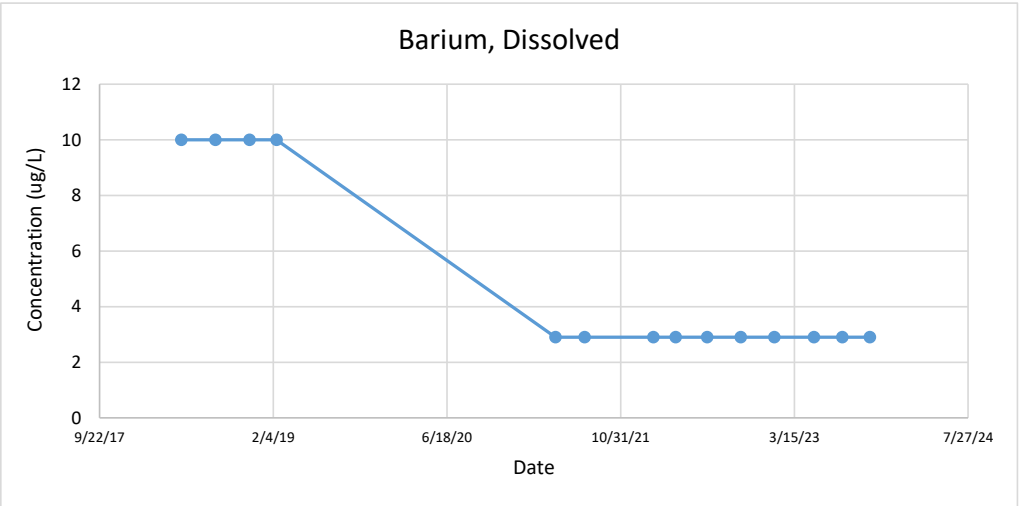
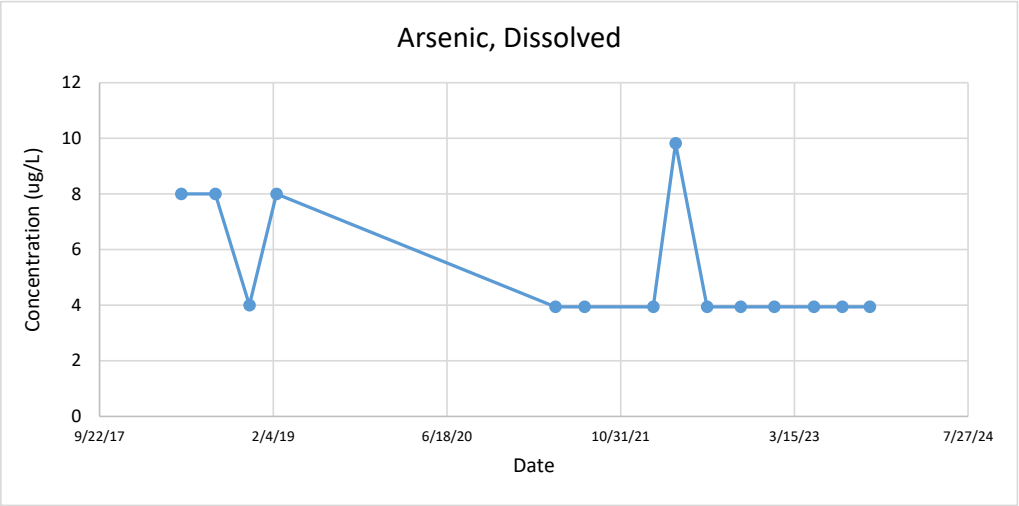


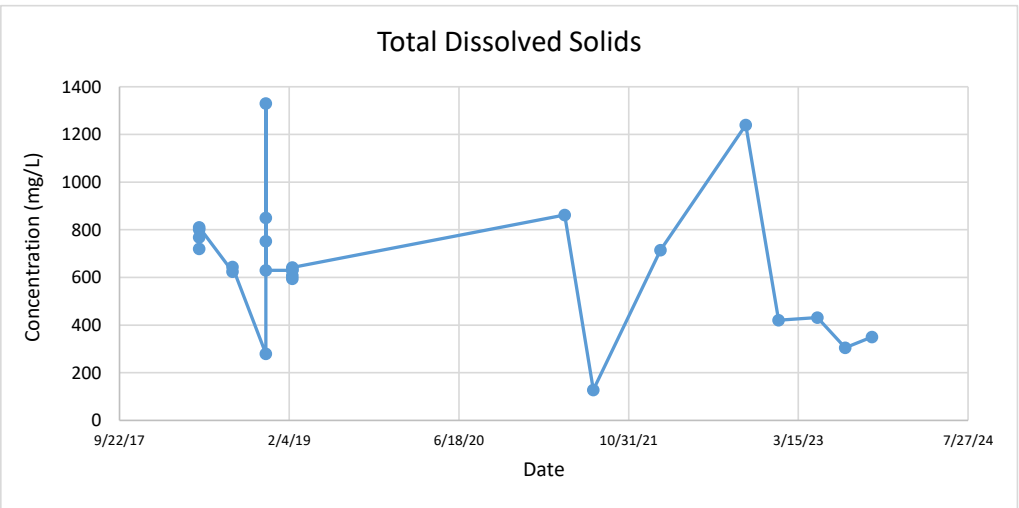
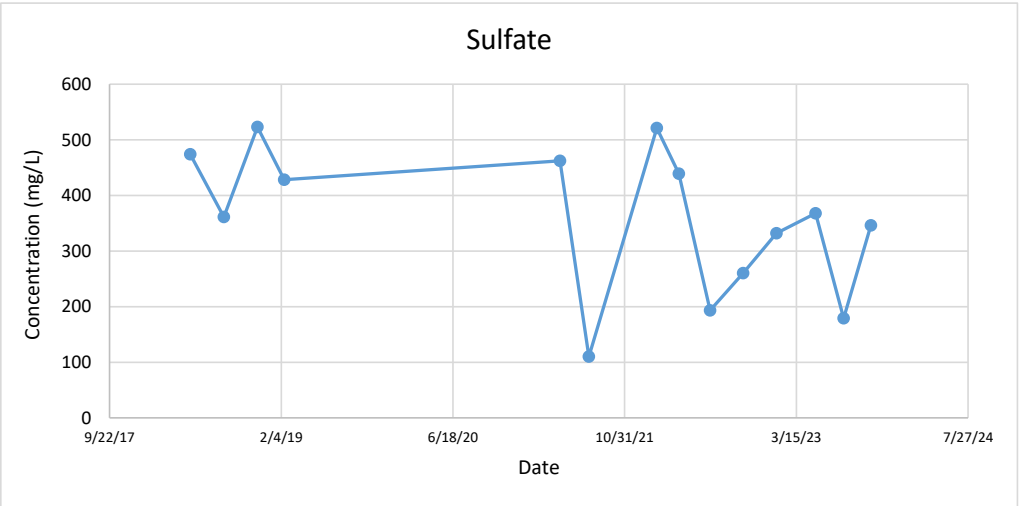
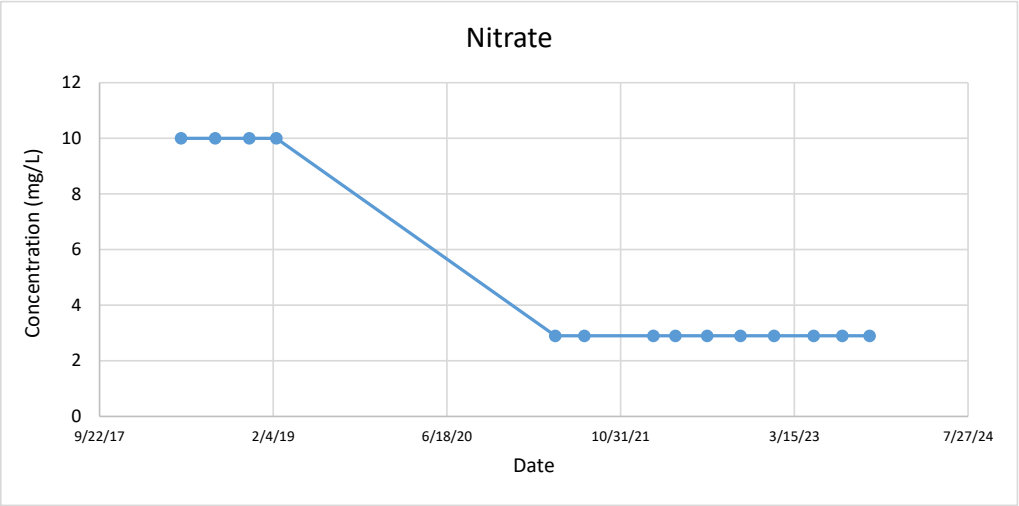




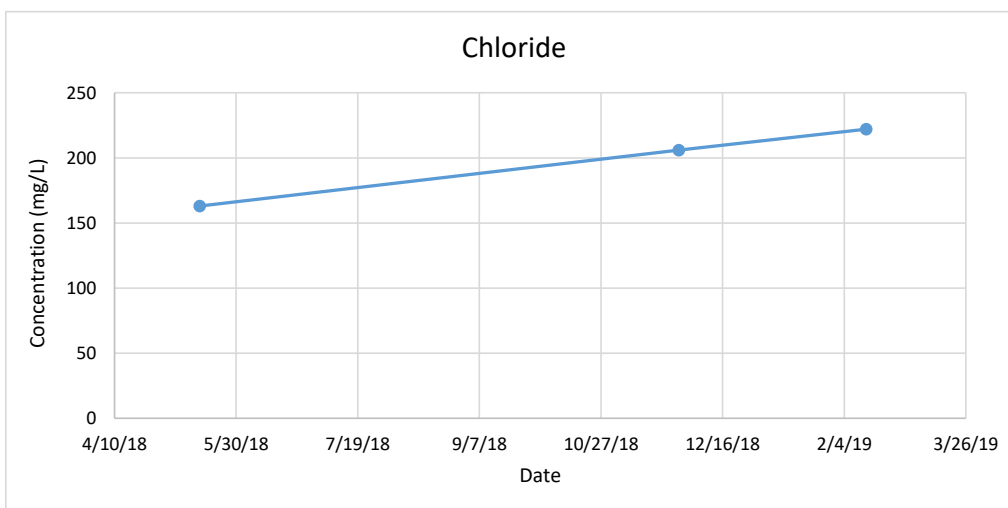
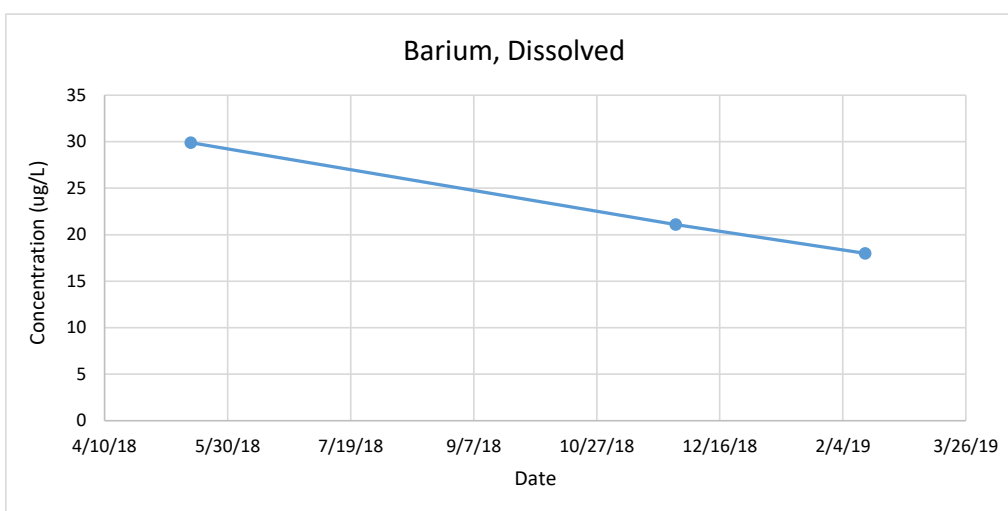
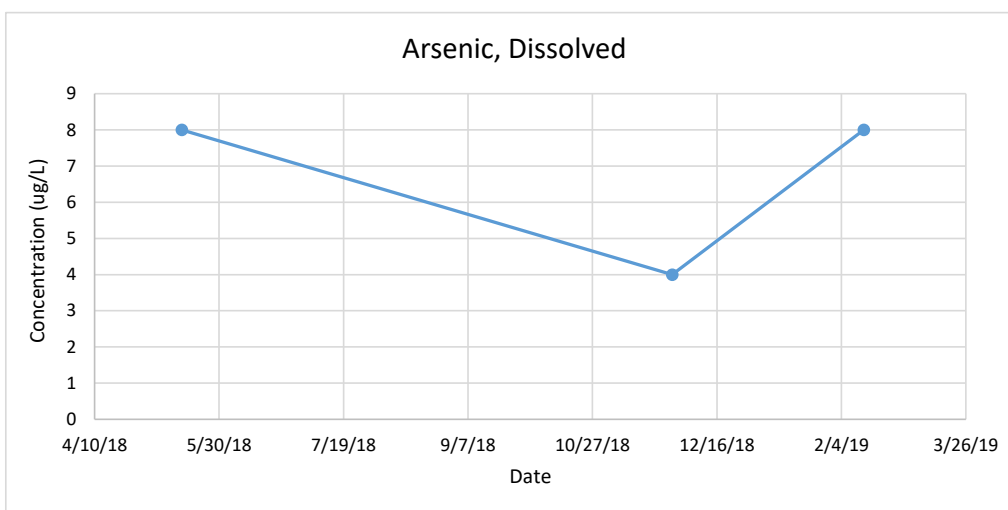


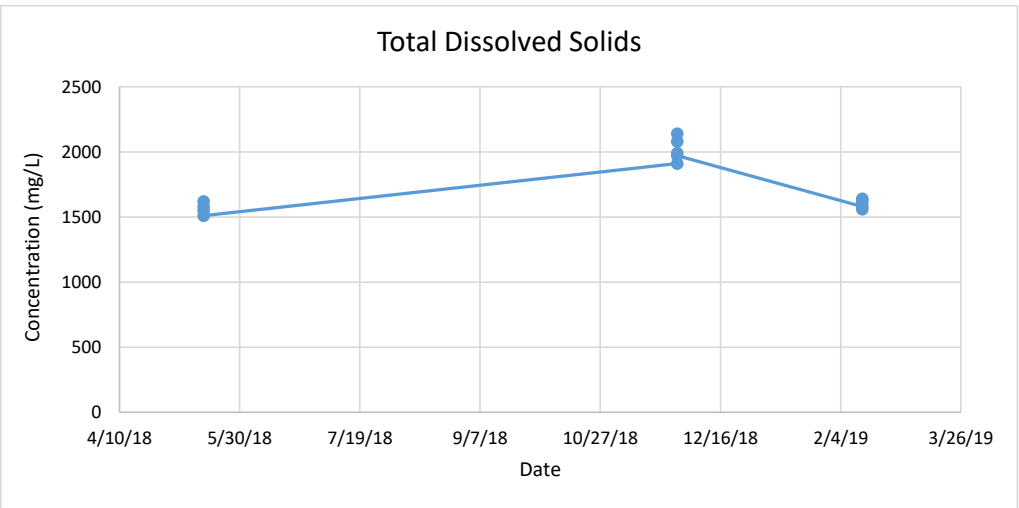
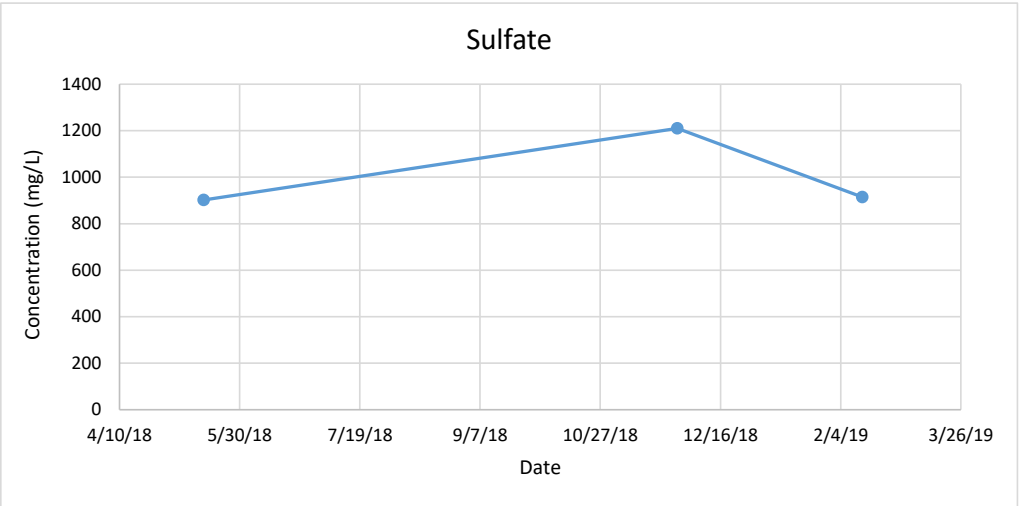
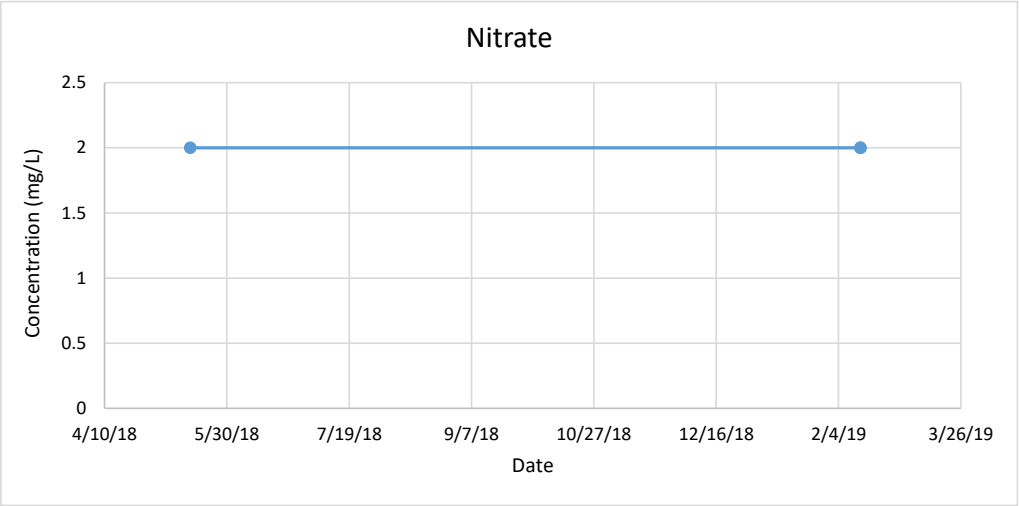
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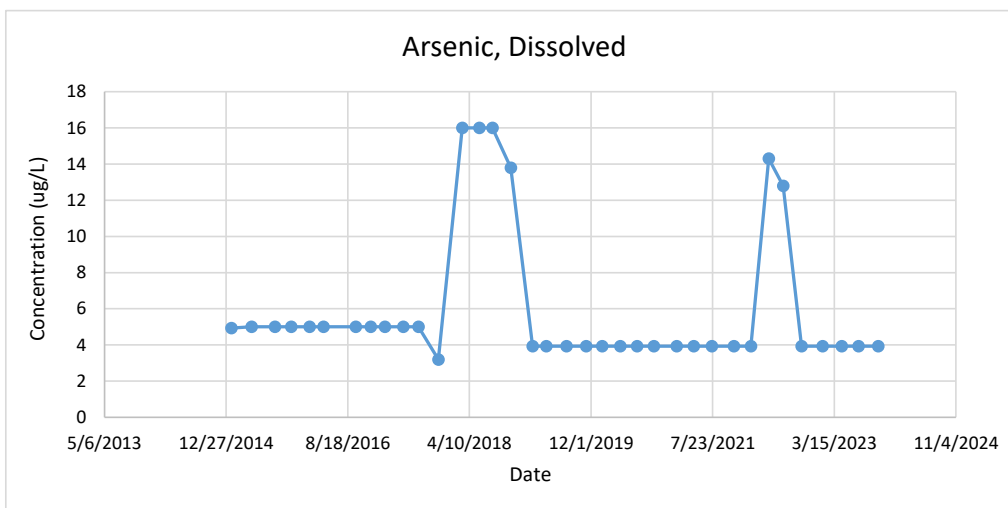


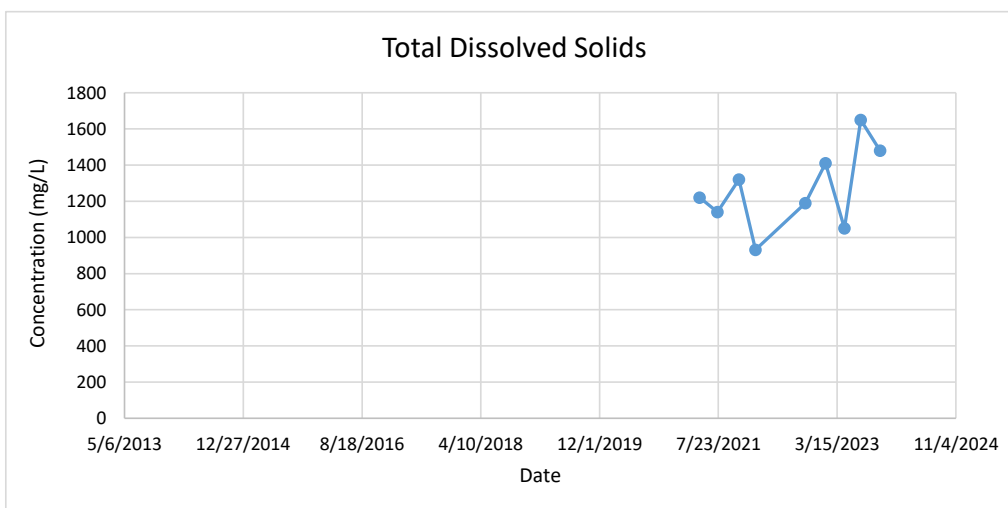
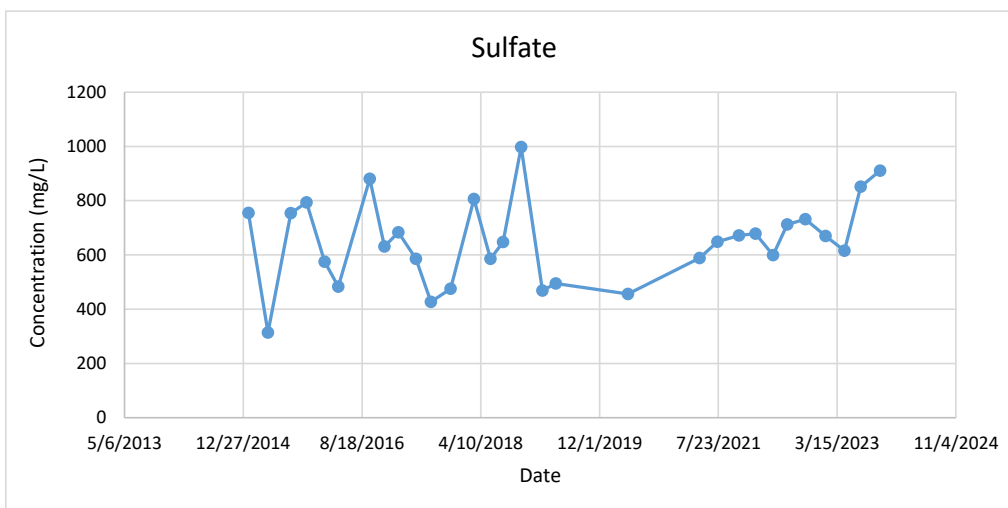
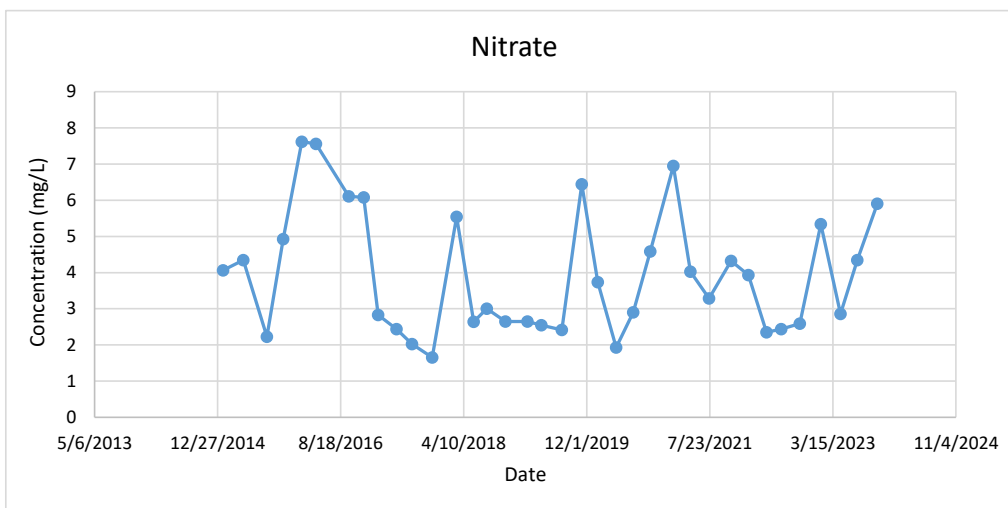


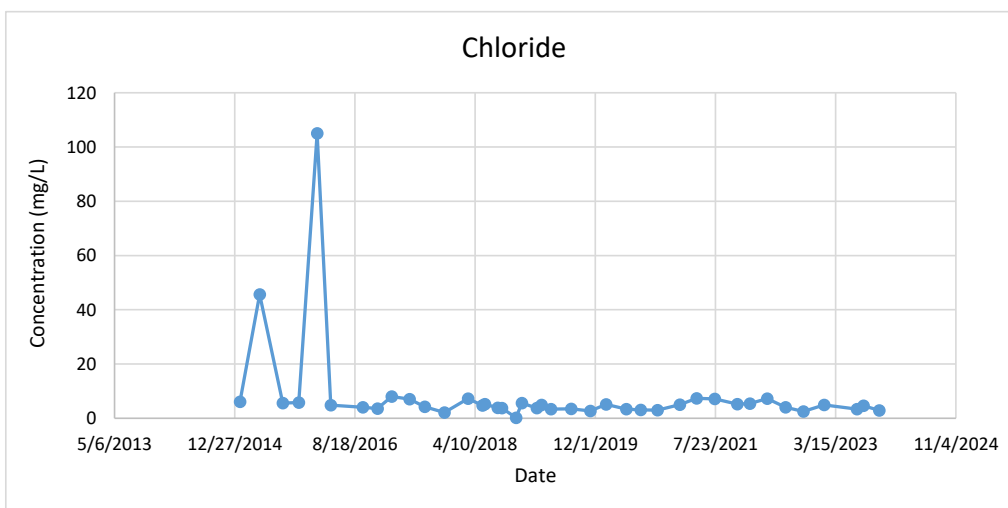
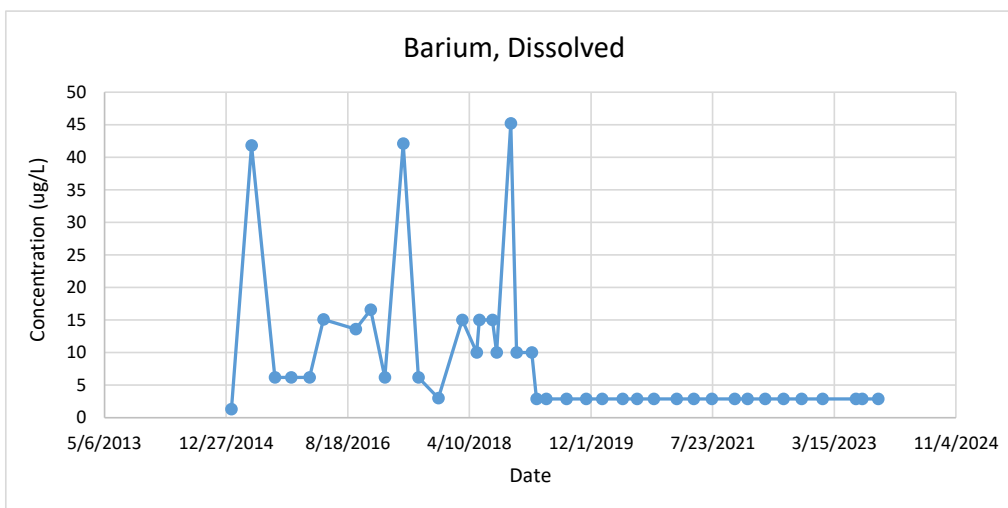
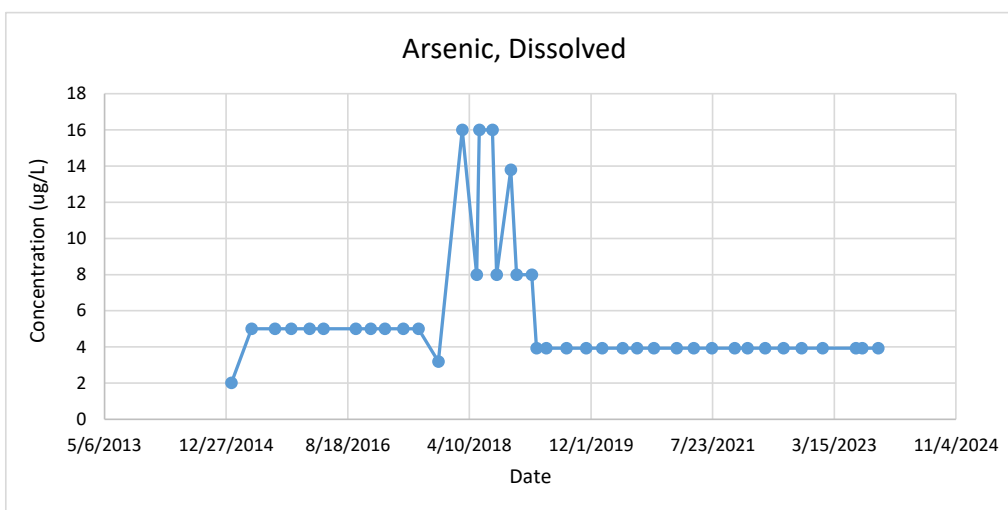
MW-704-PC

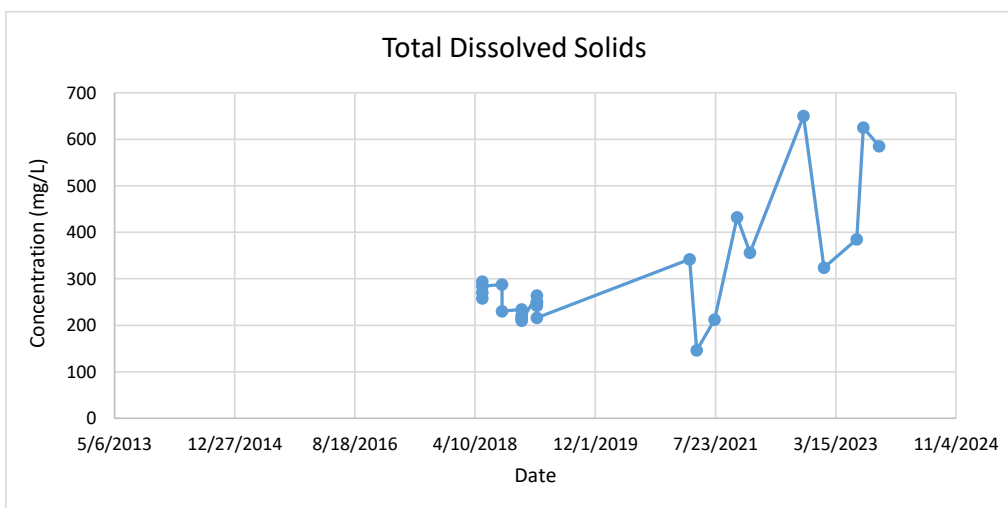
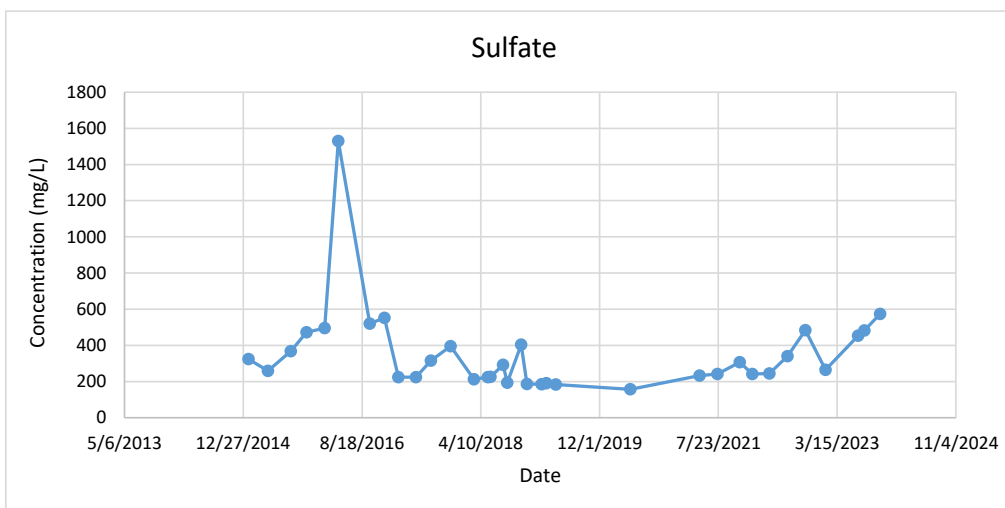
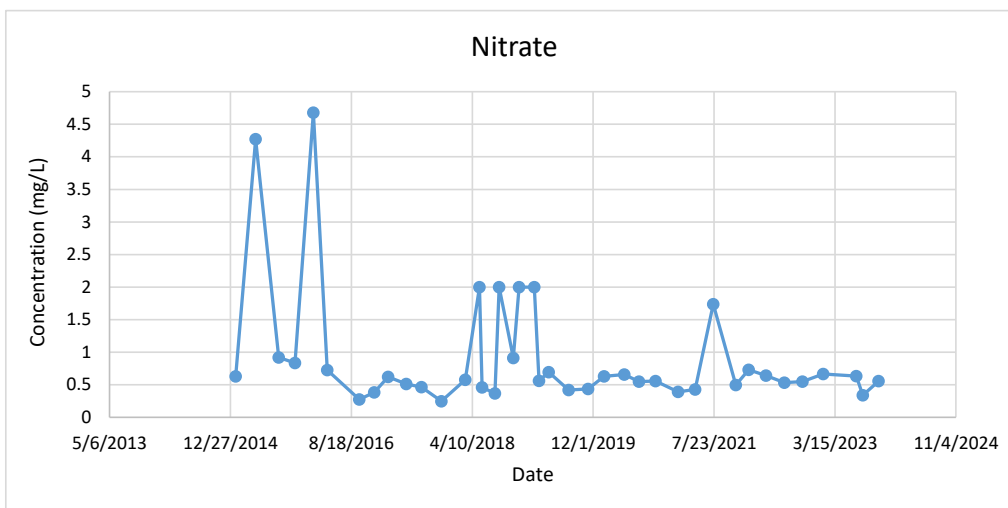


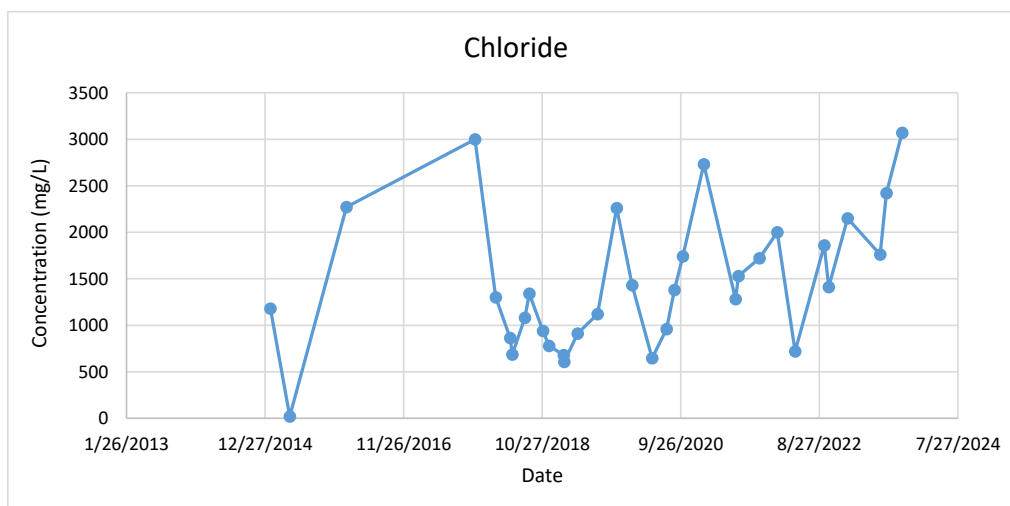
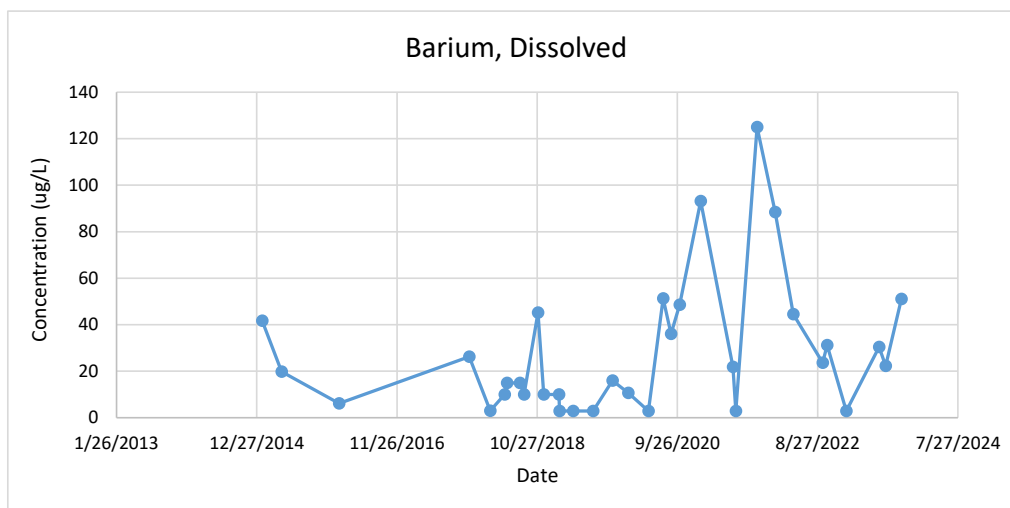
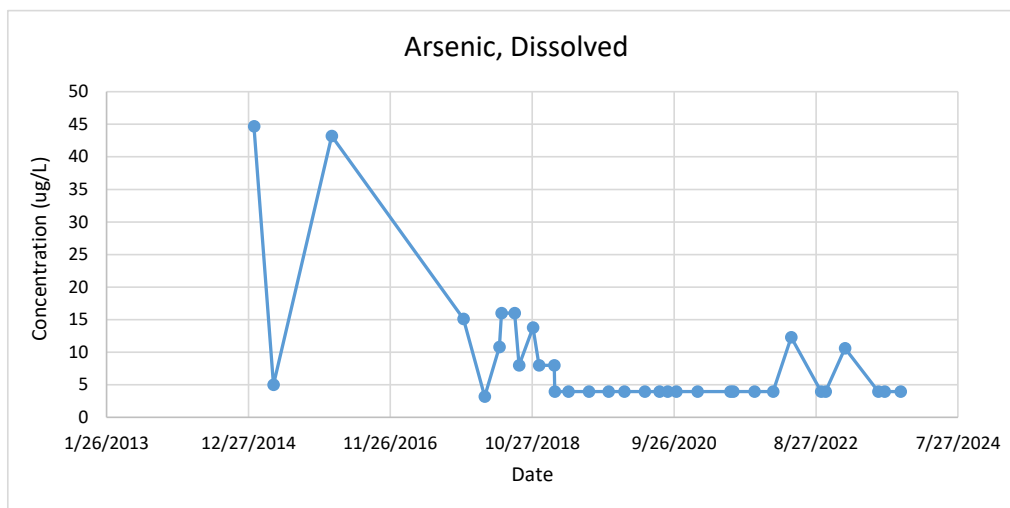


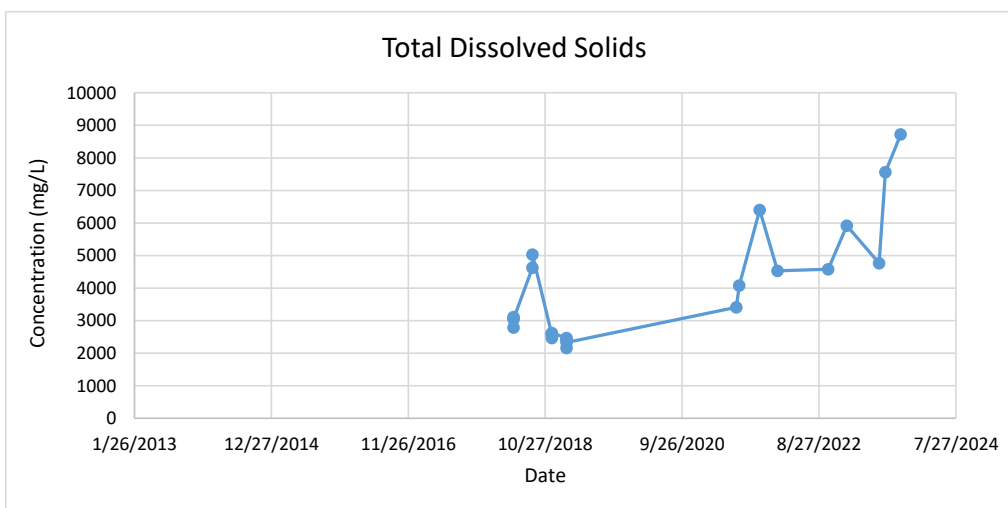
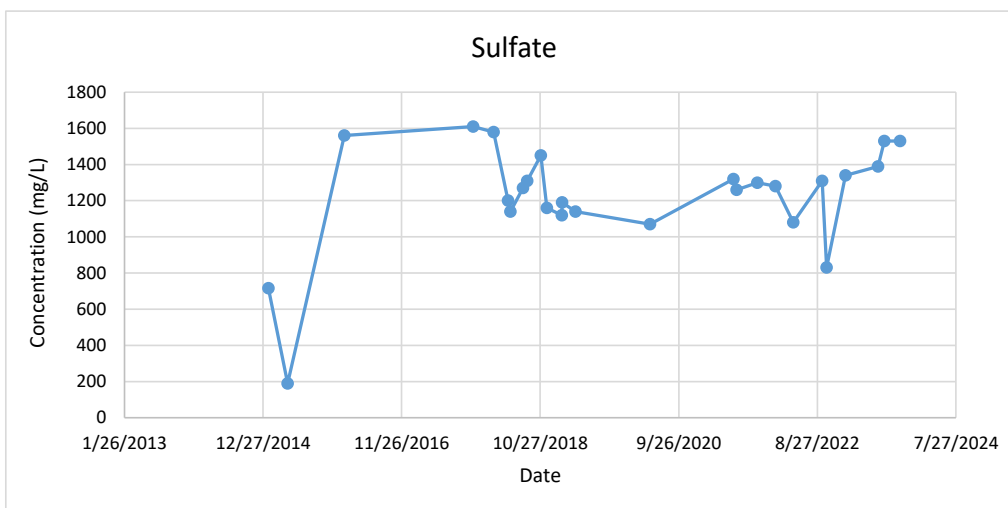
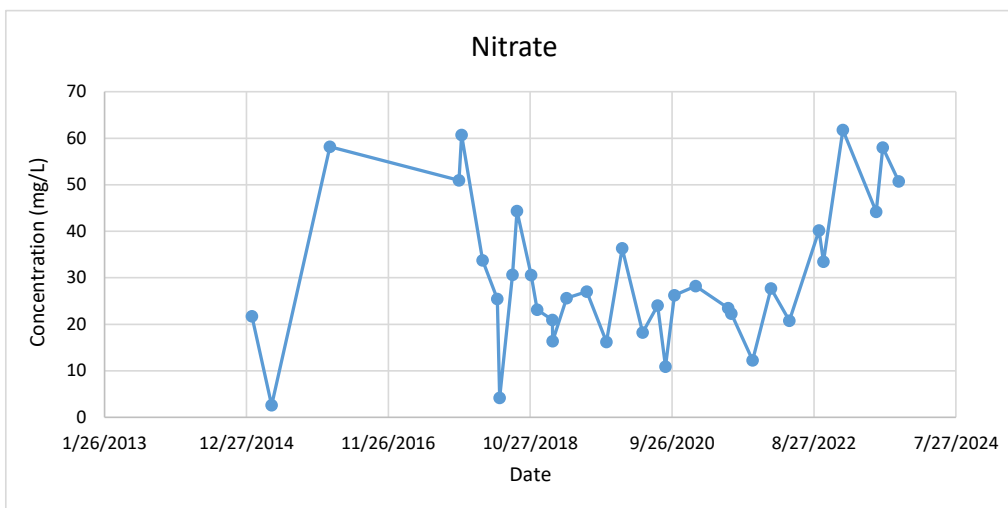


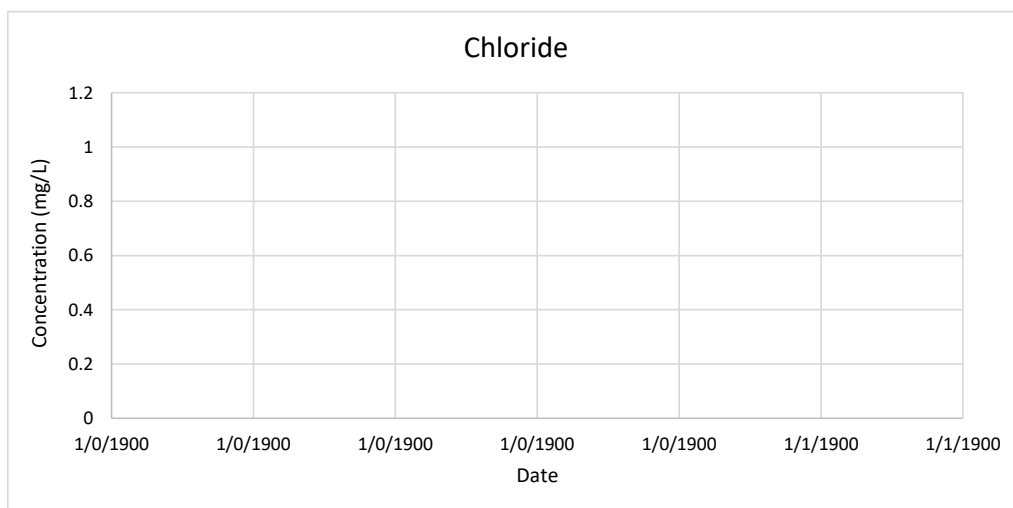
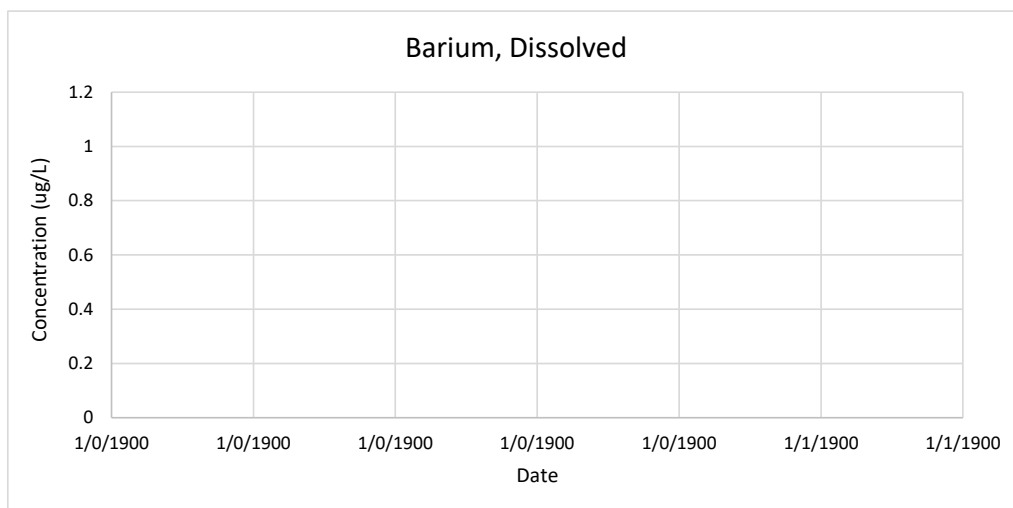
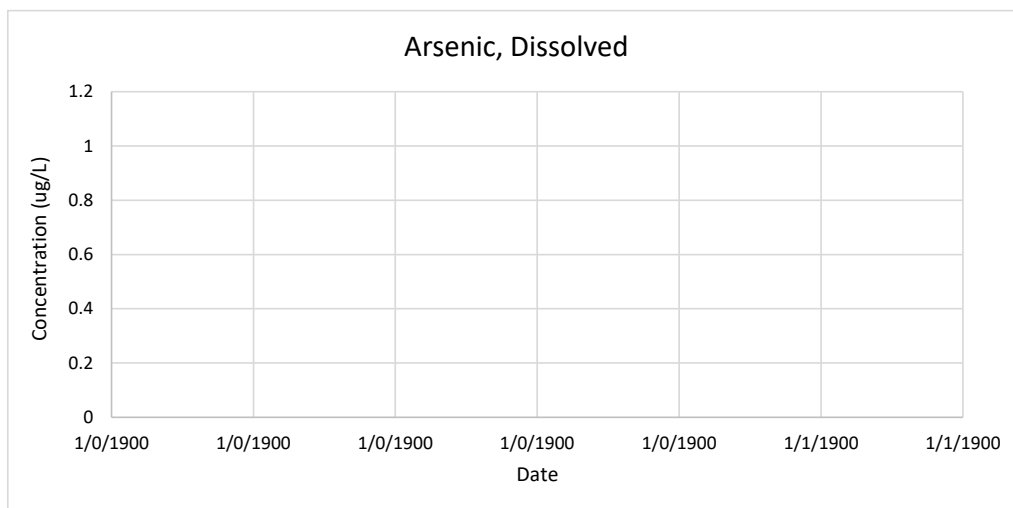


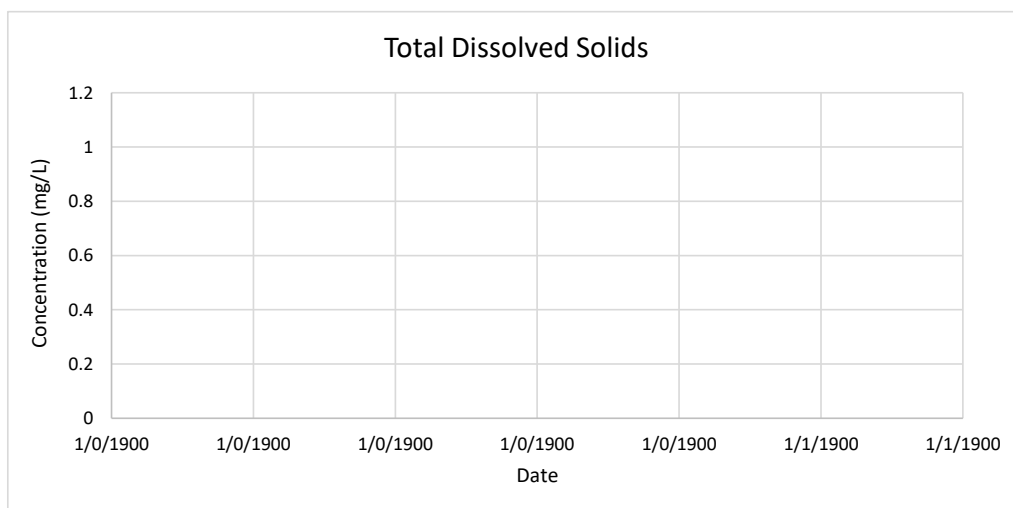
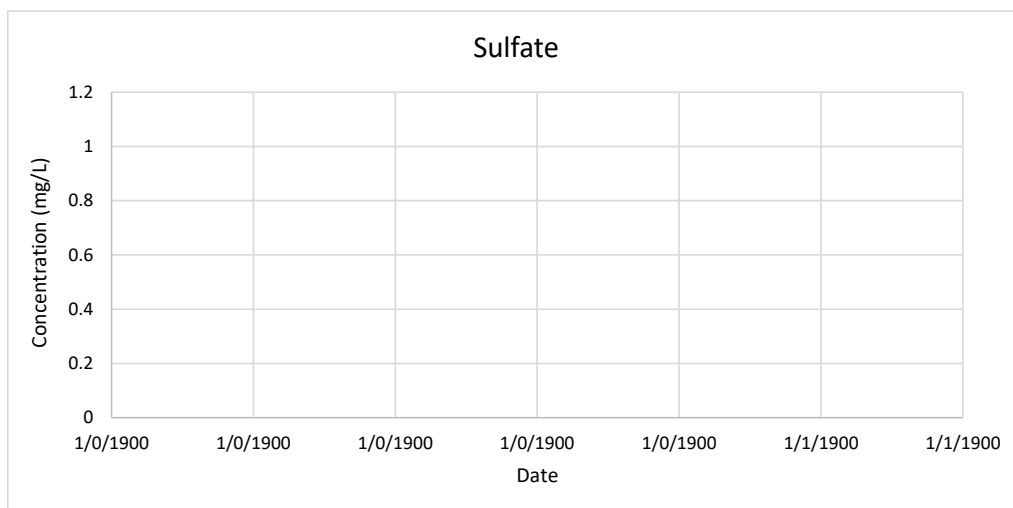
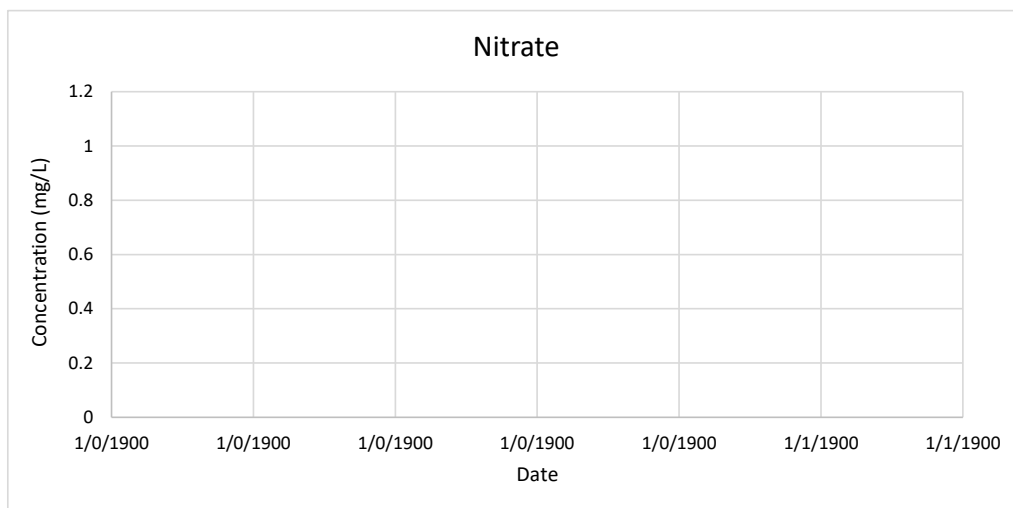


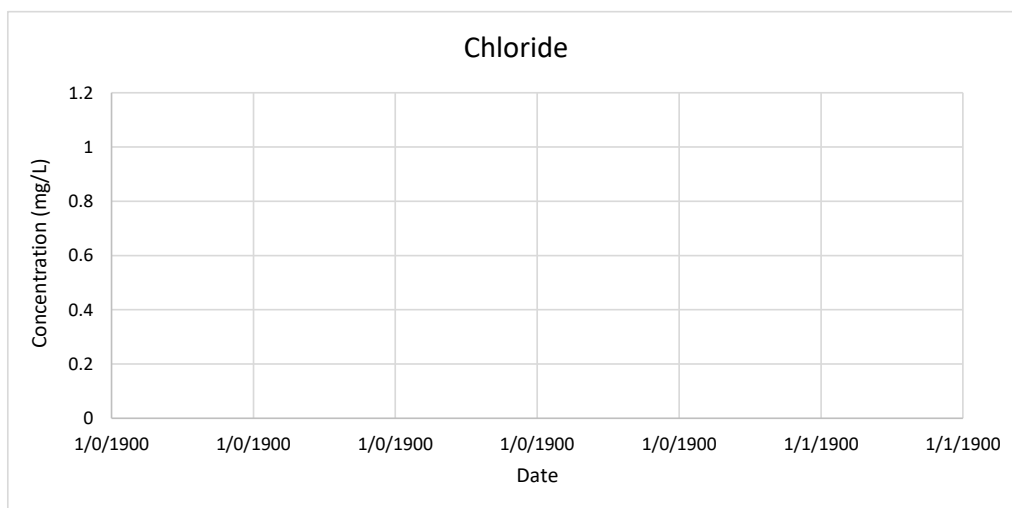
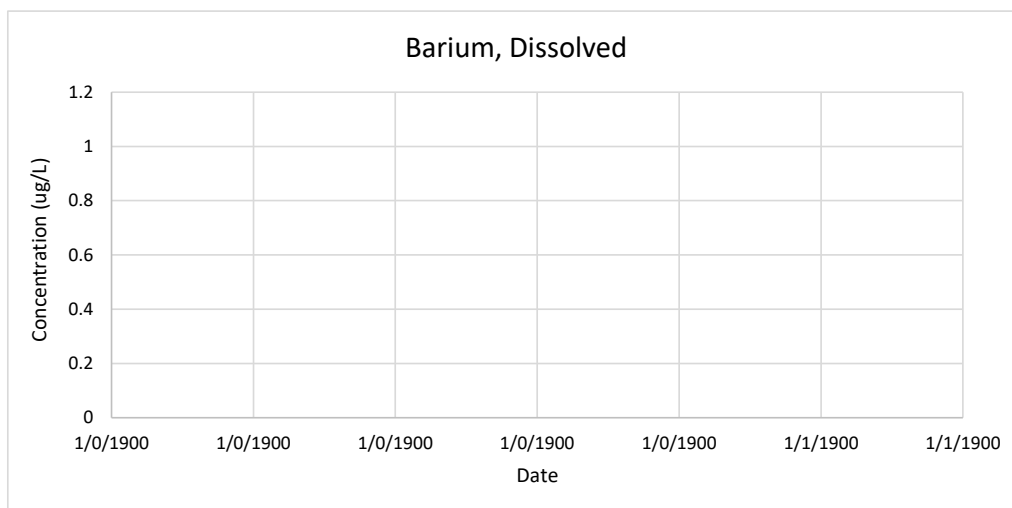
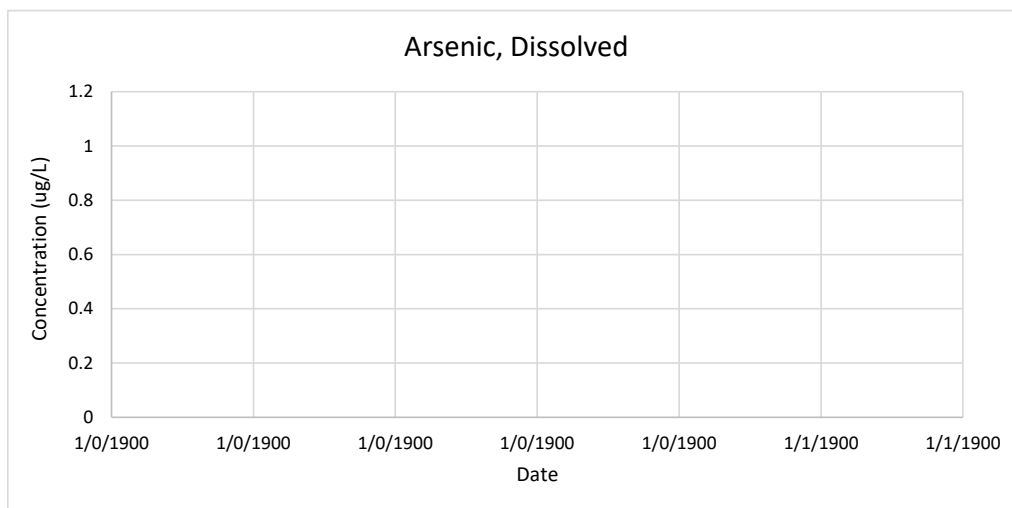


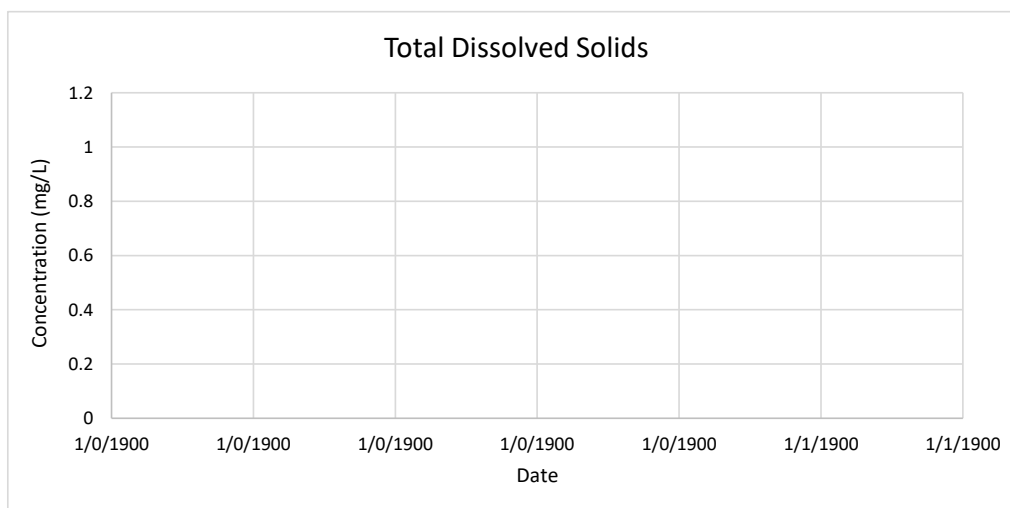
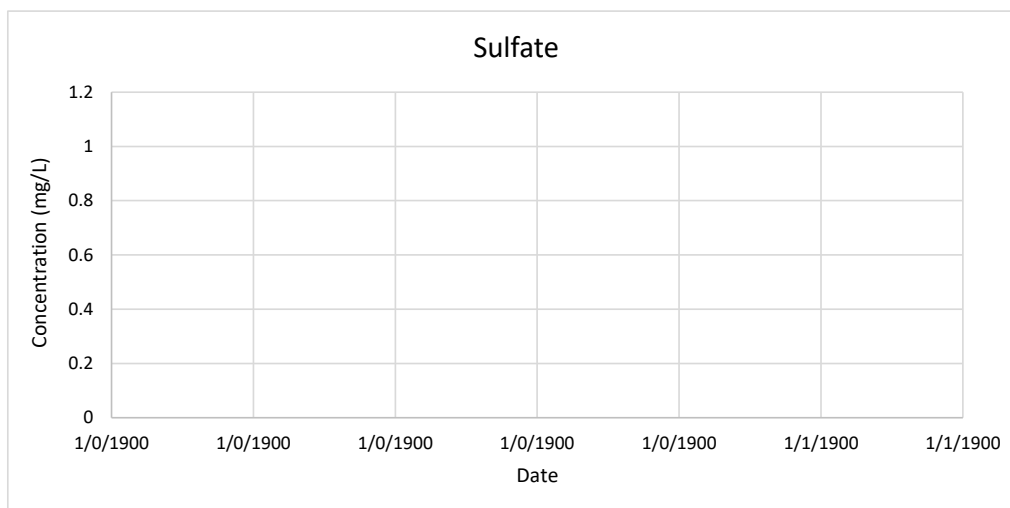
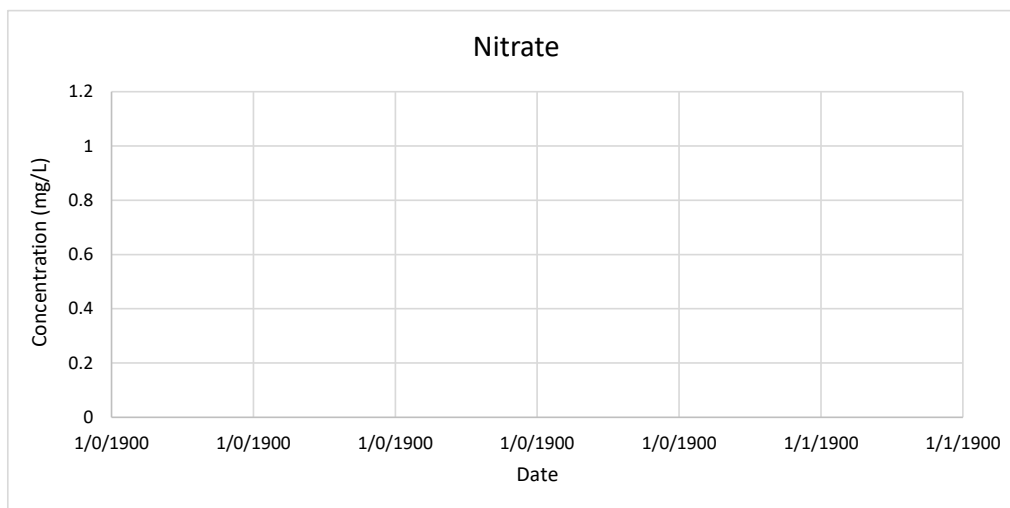


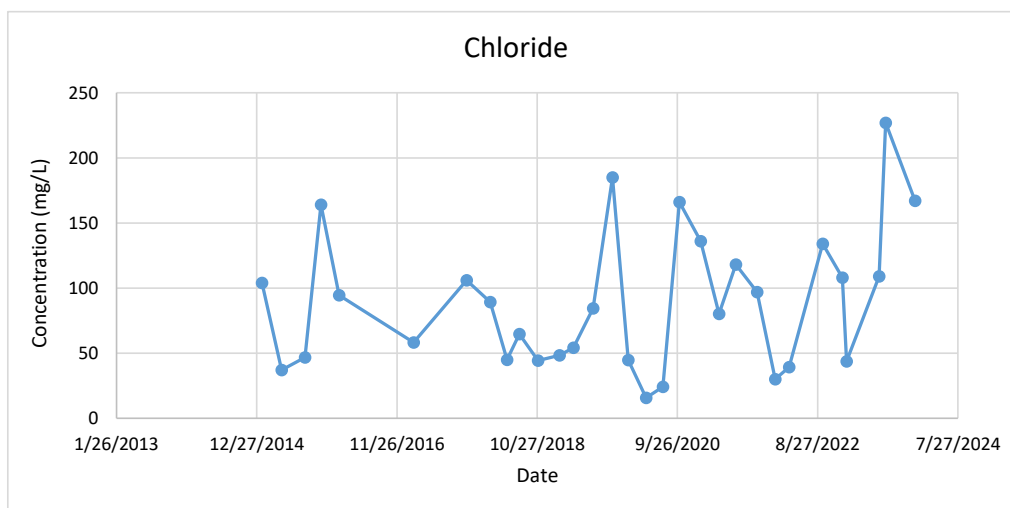
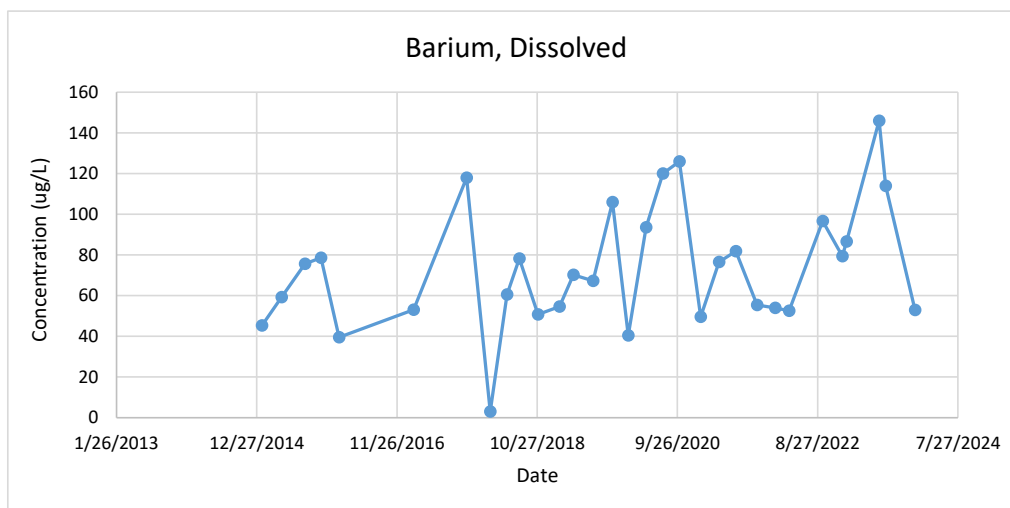
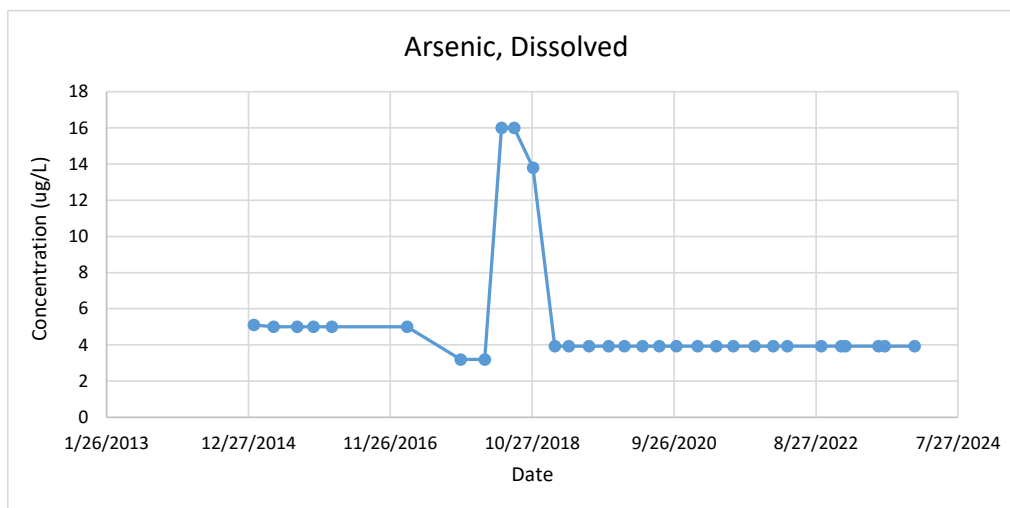


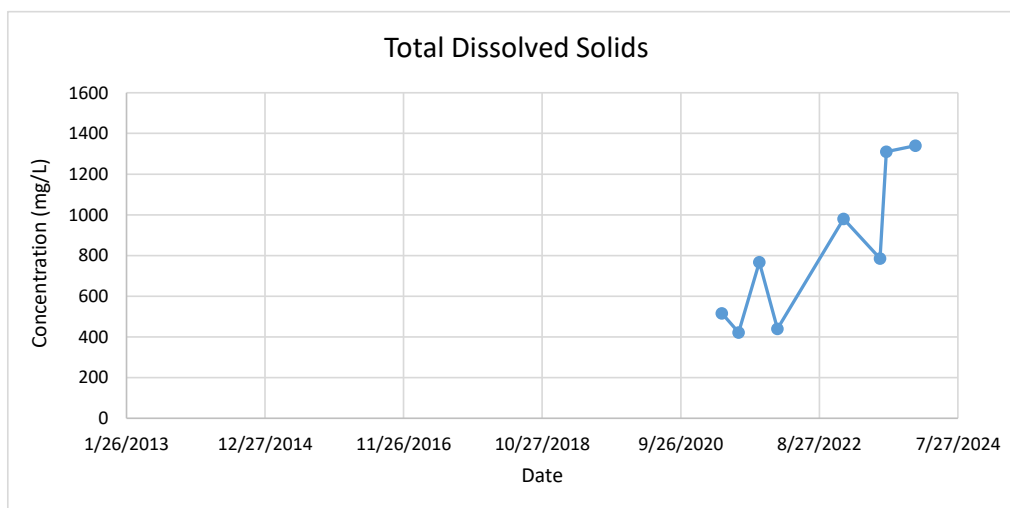
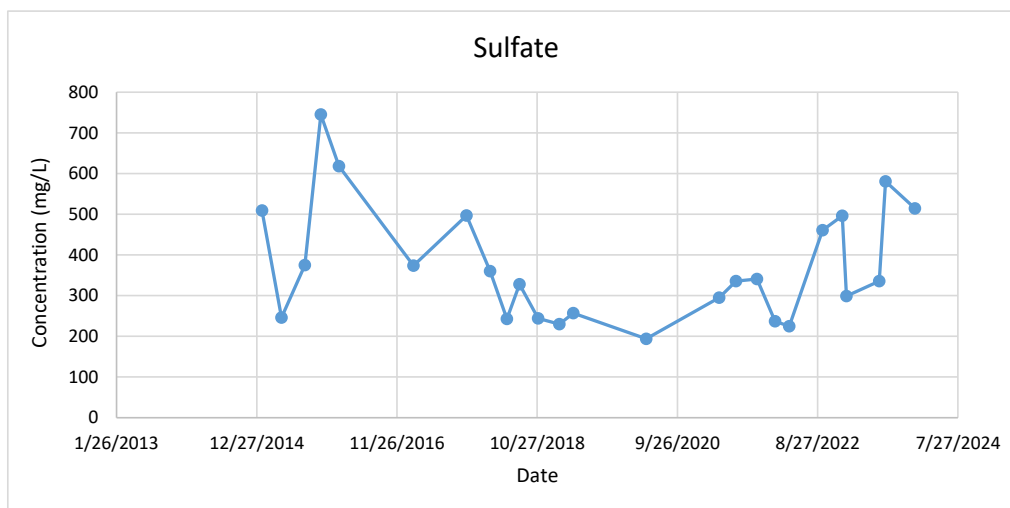
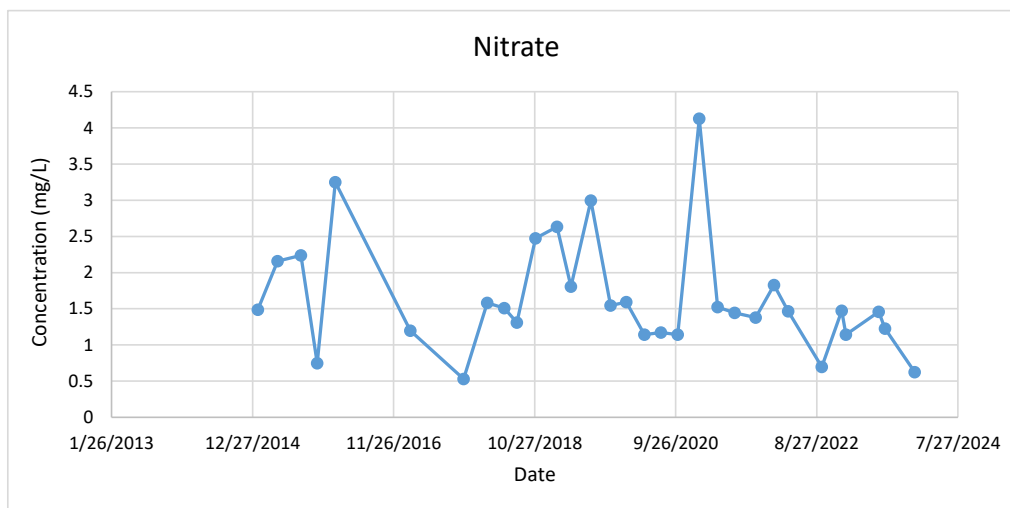


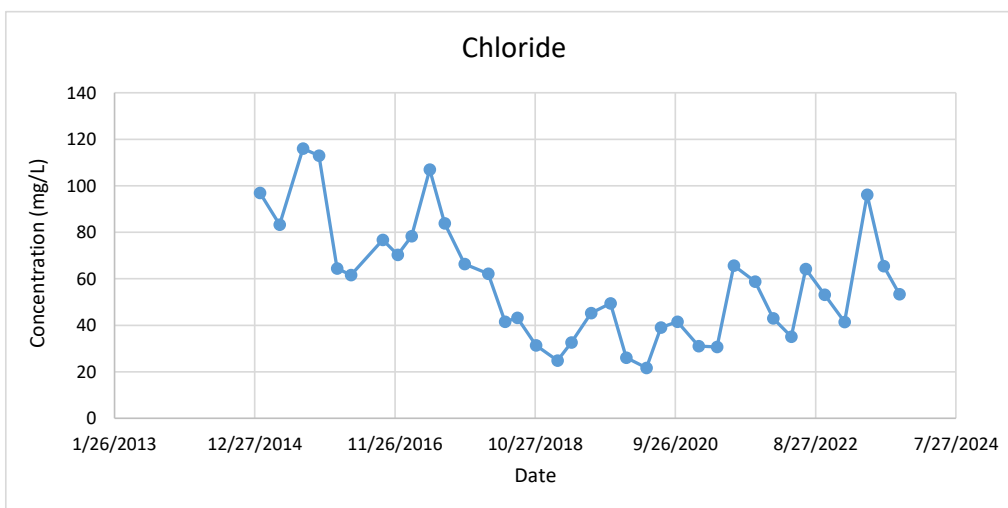
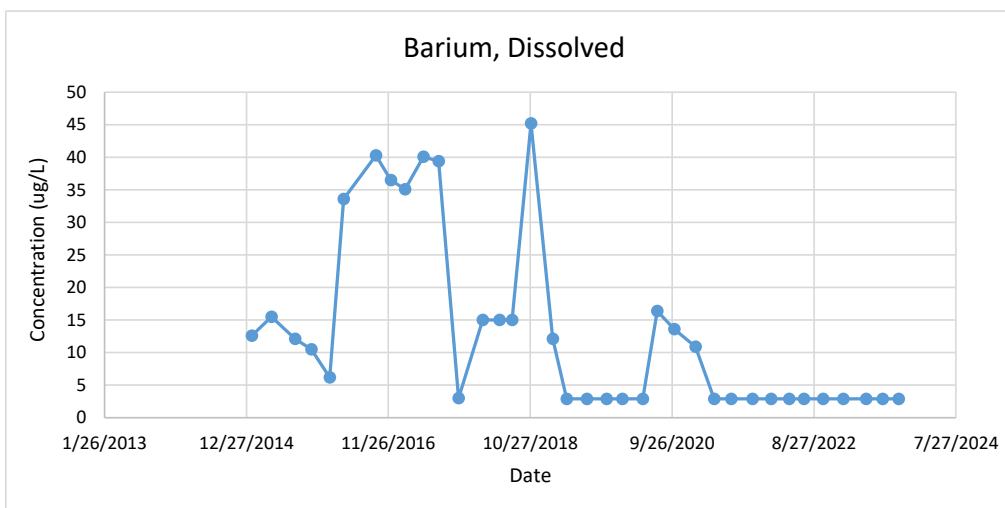
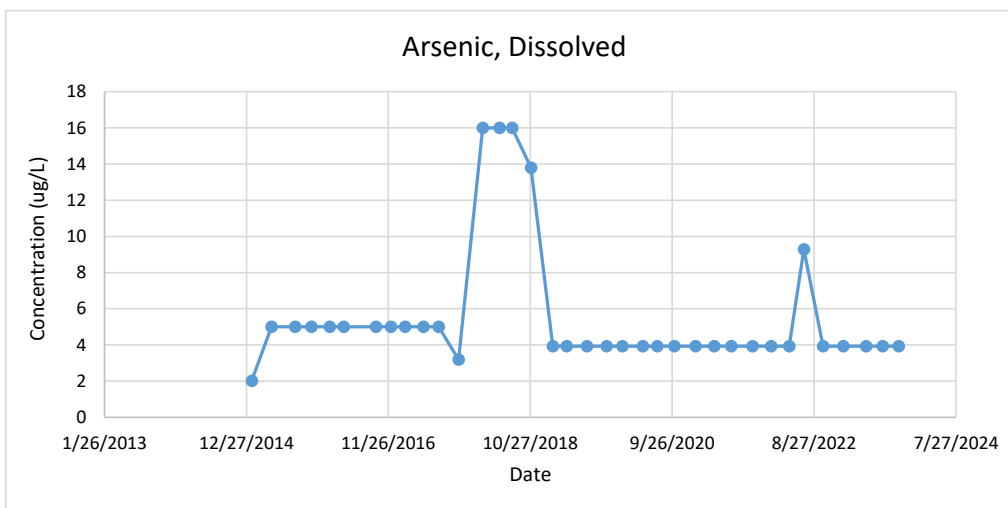


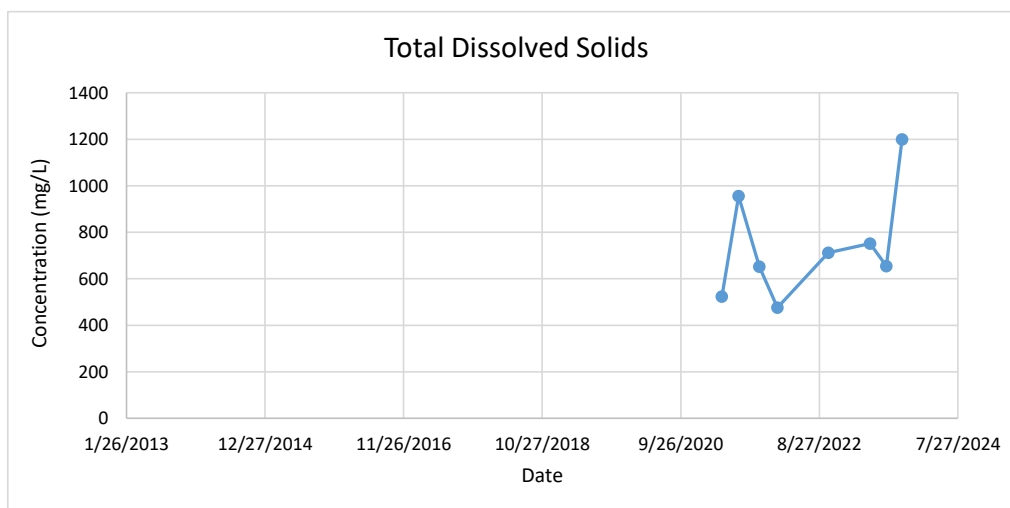
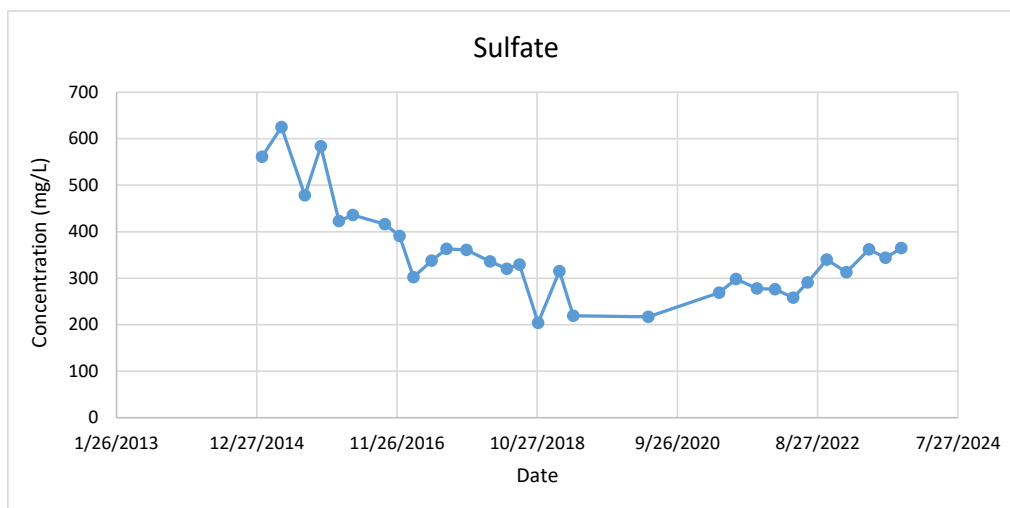
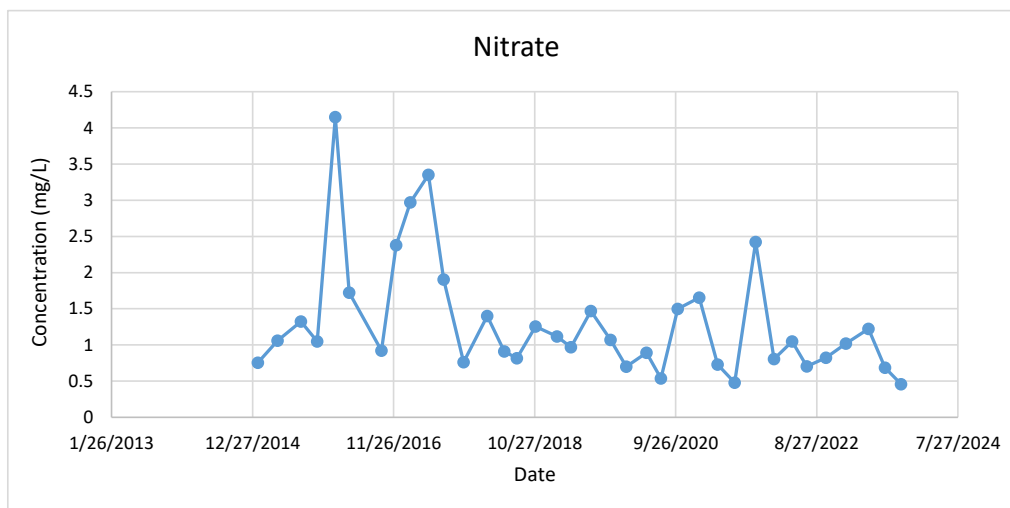


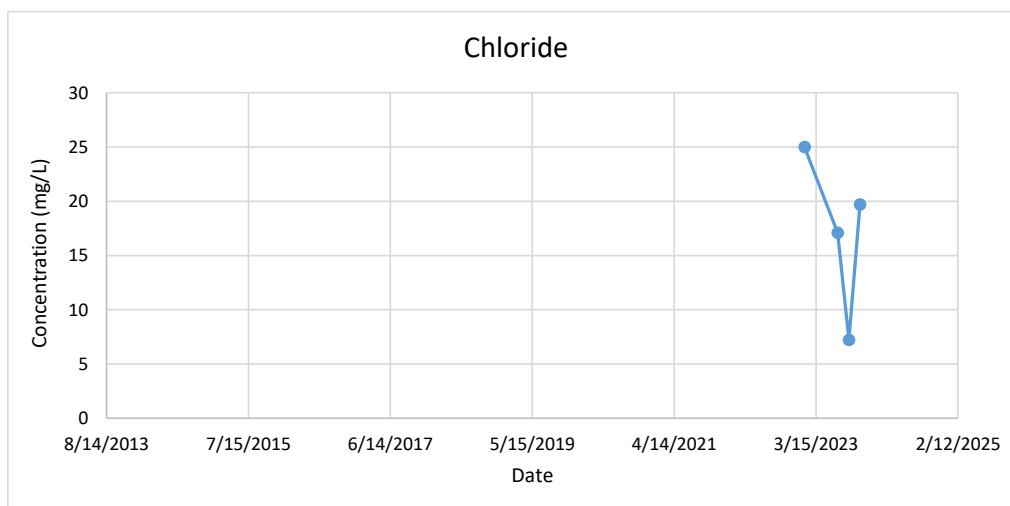
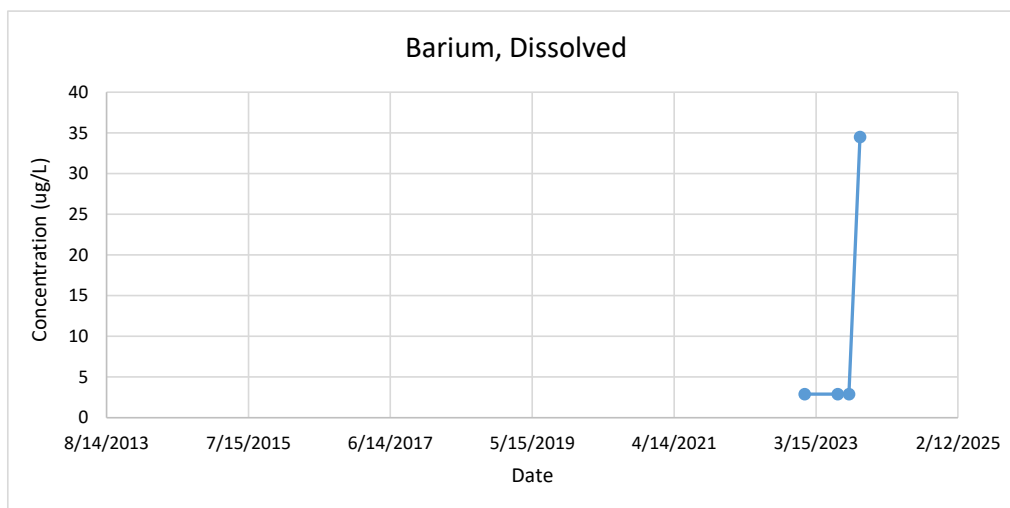
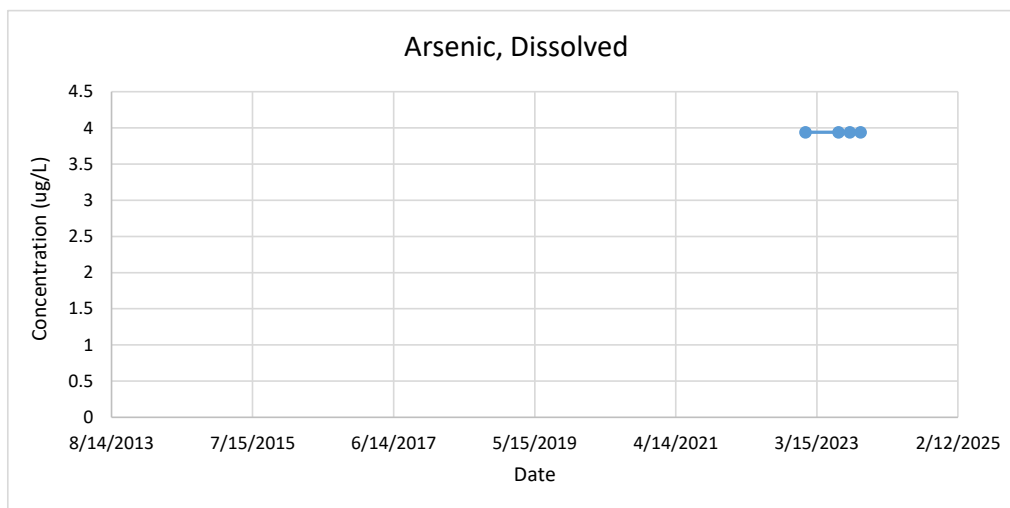


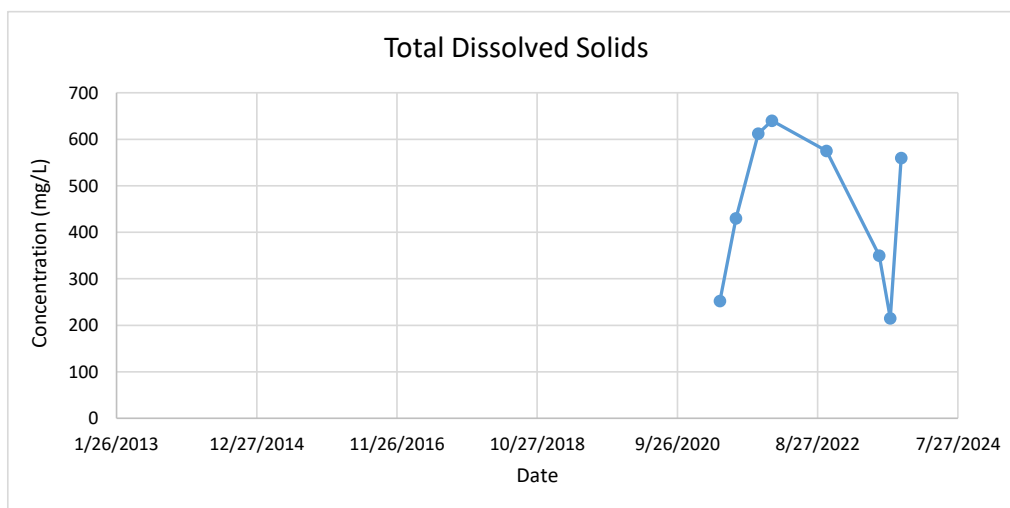
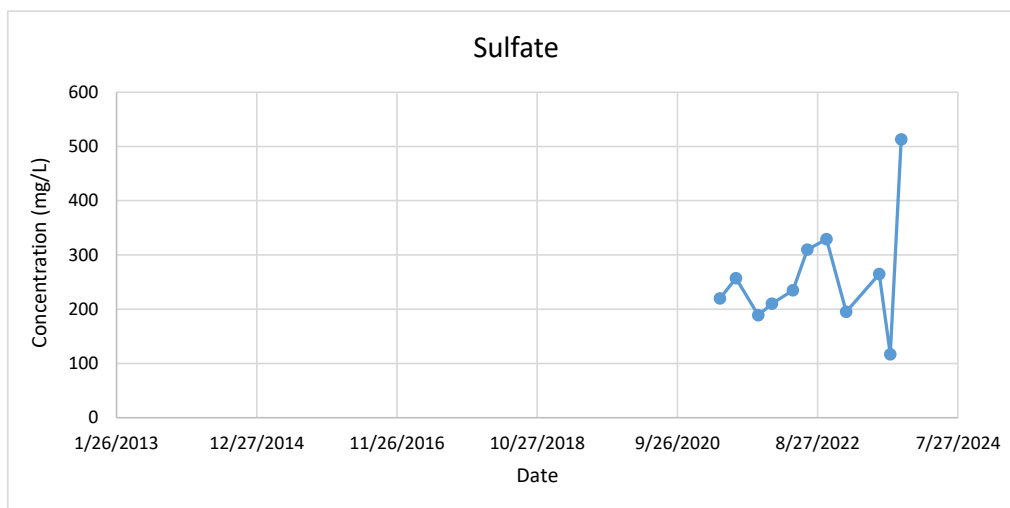
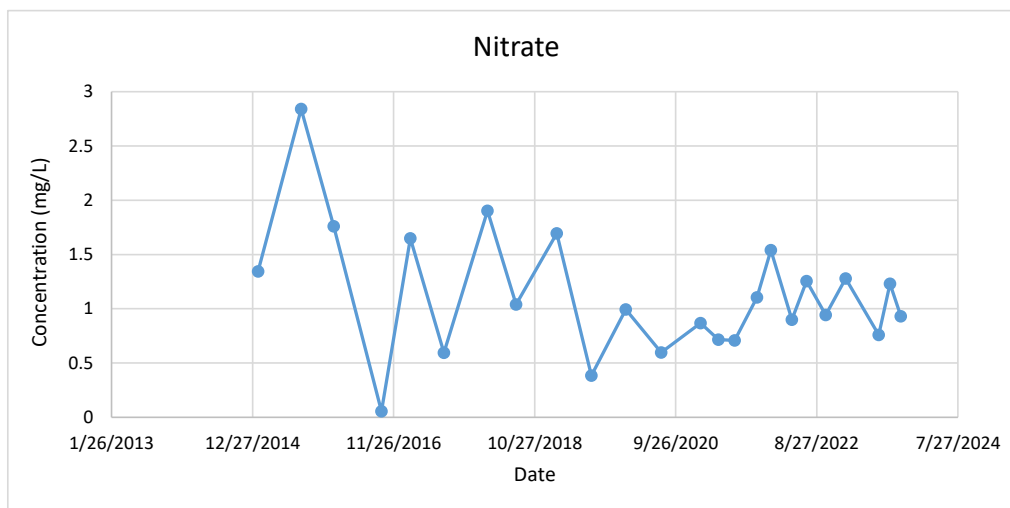


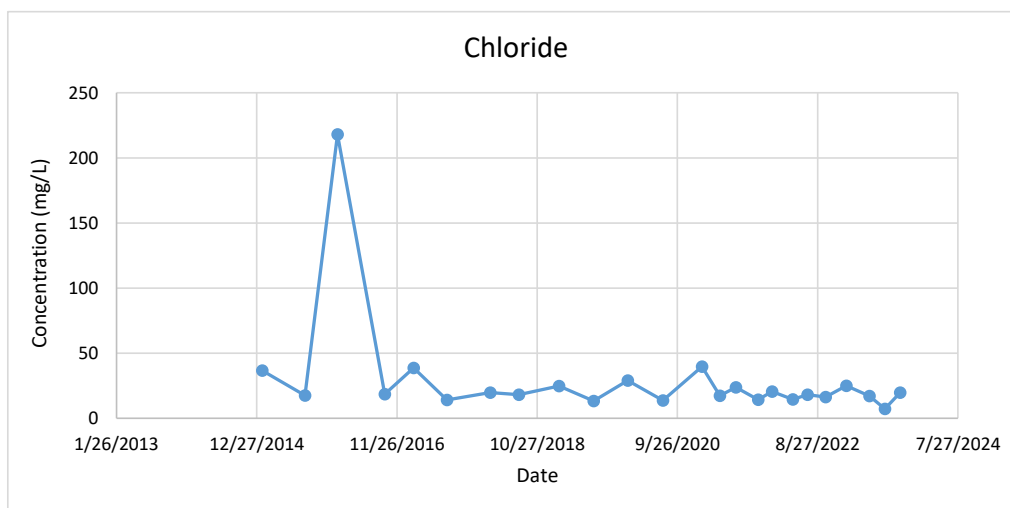
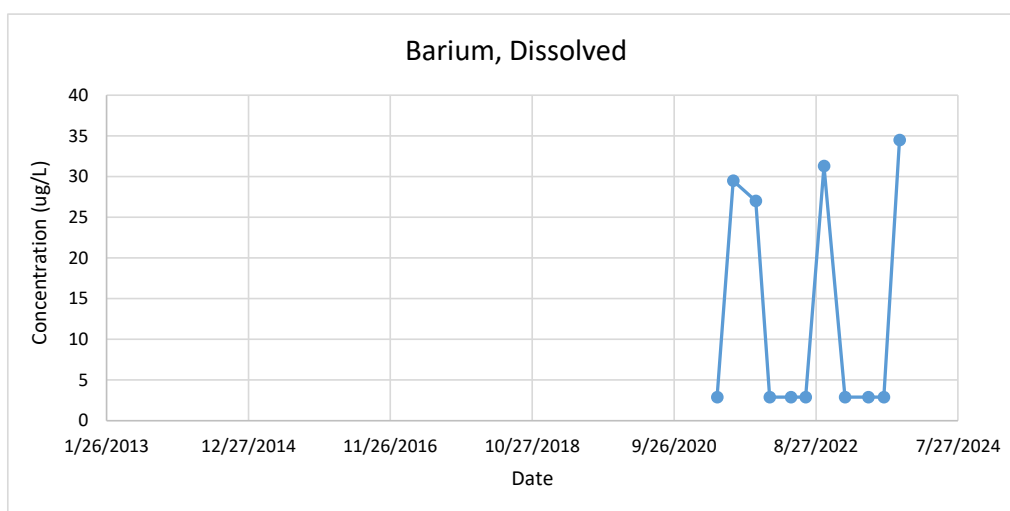
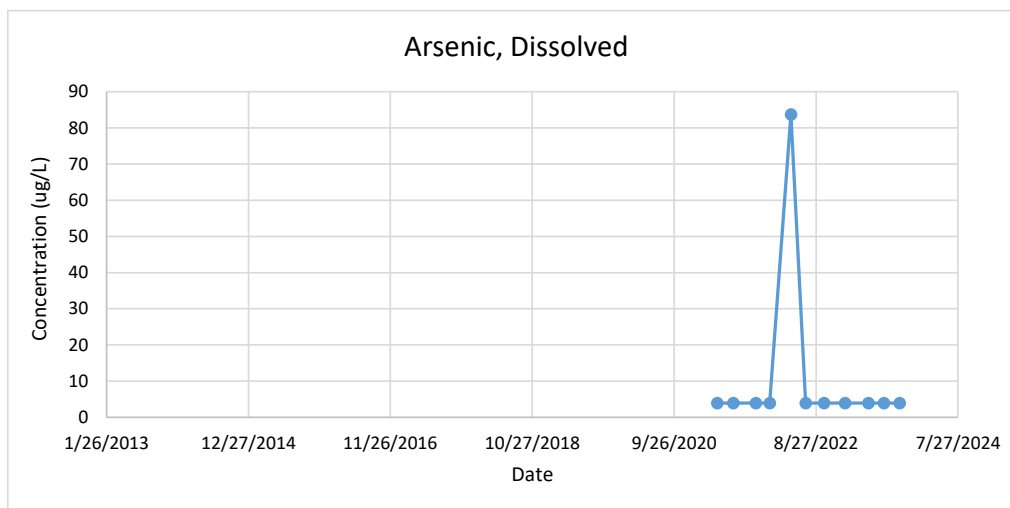


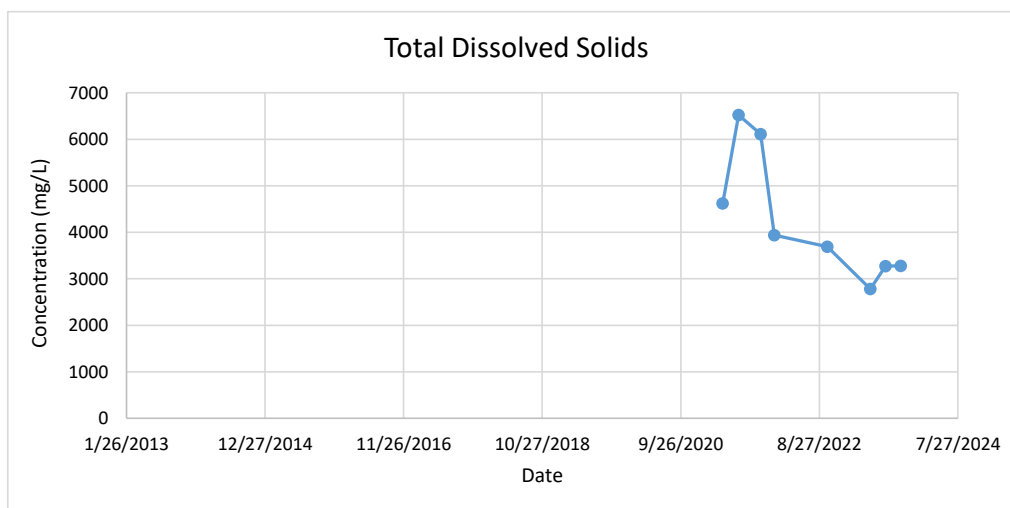
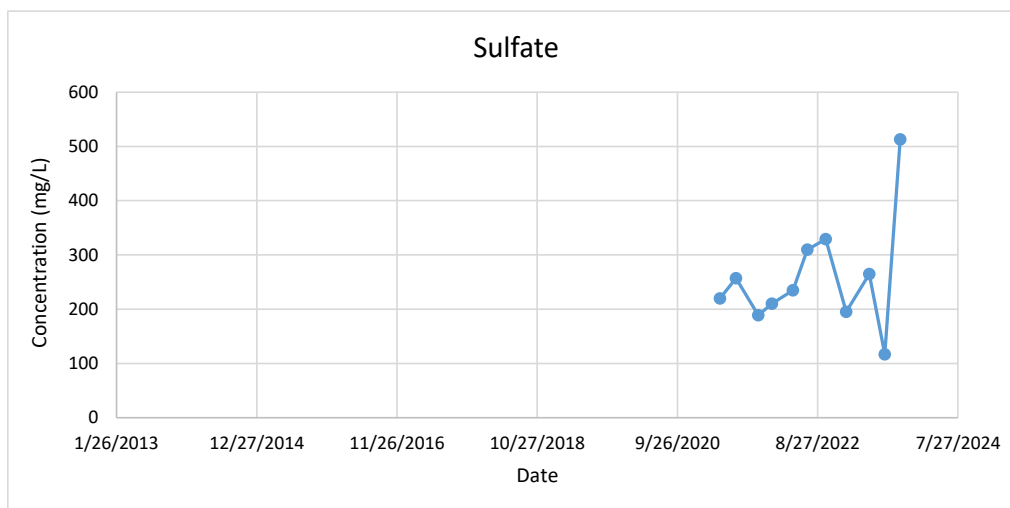
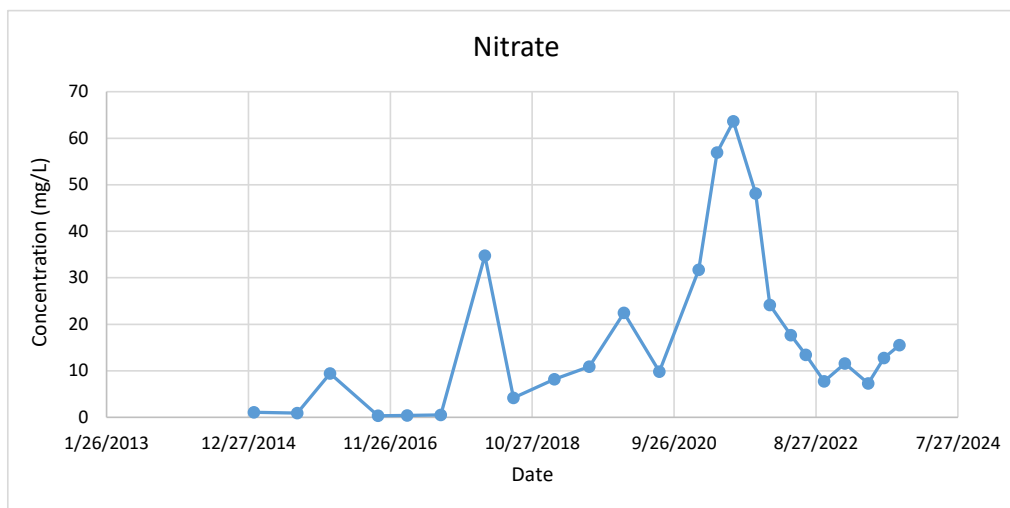


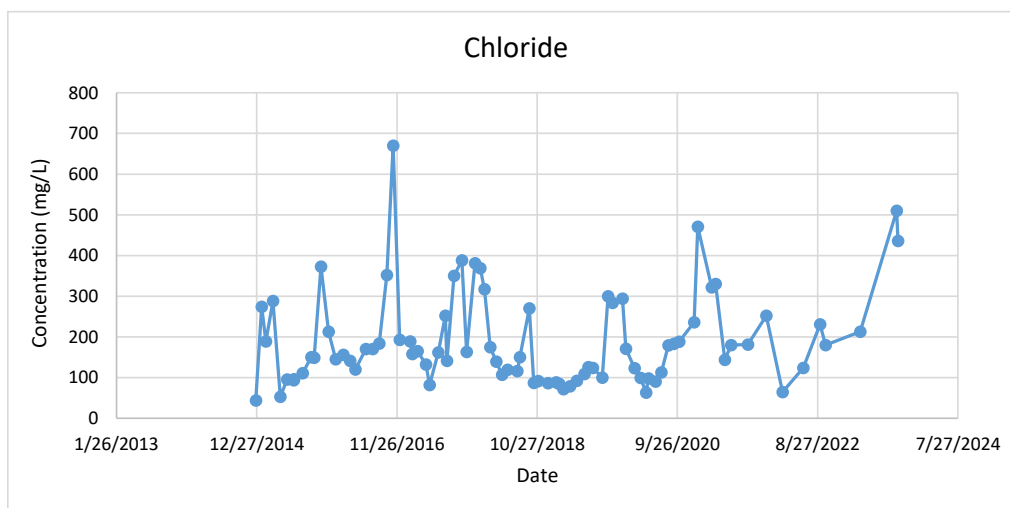
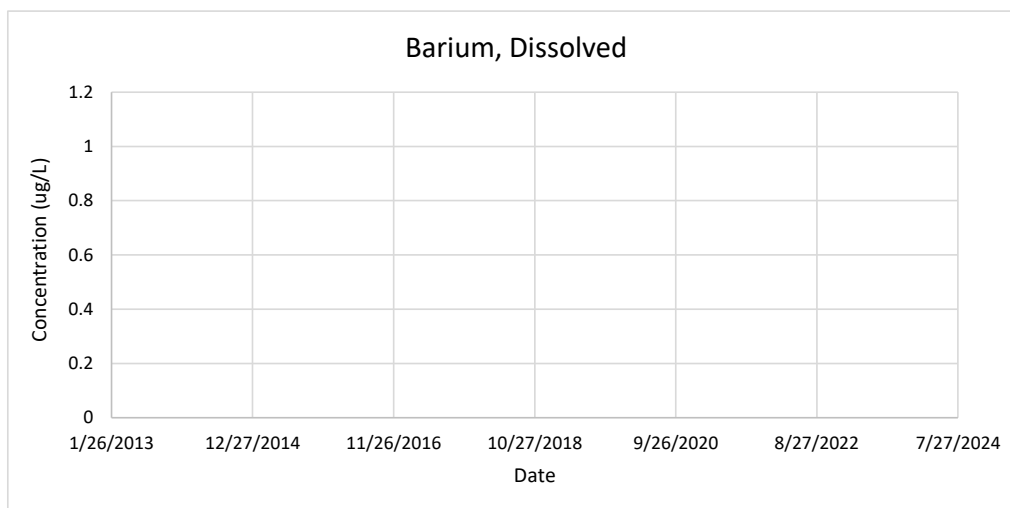
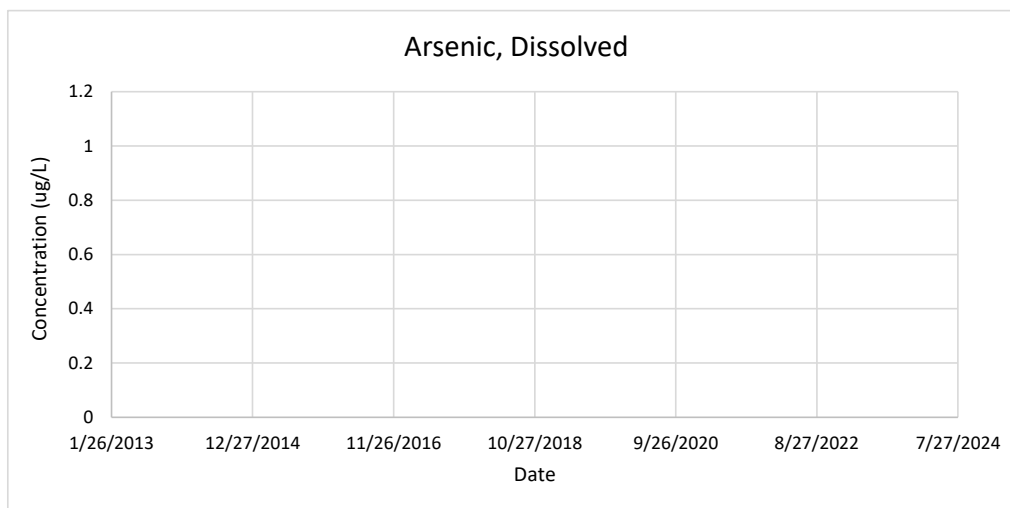




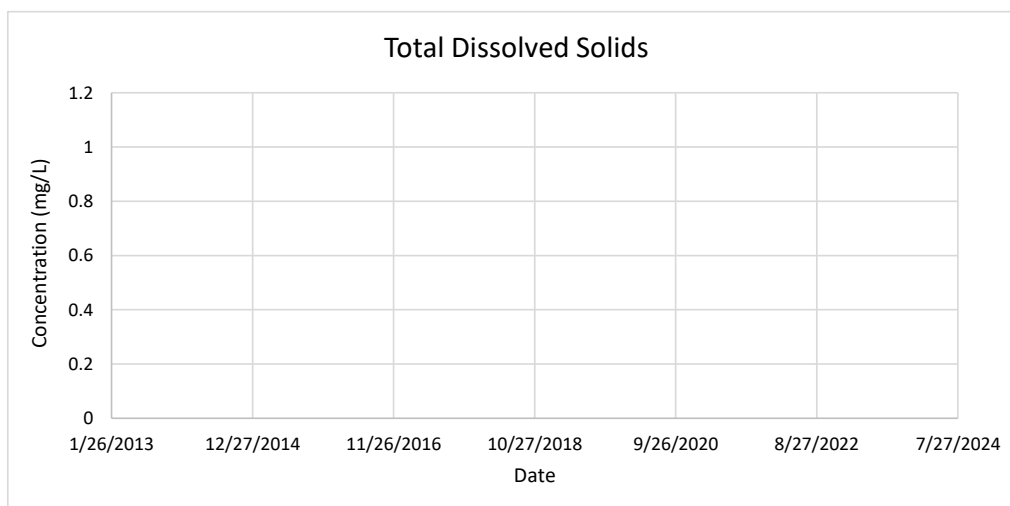
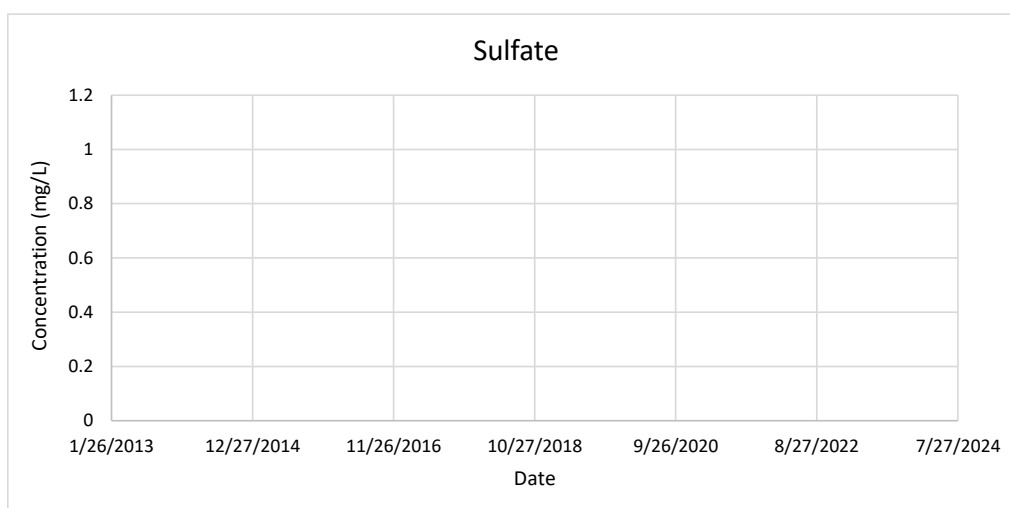
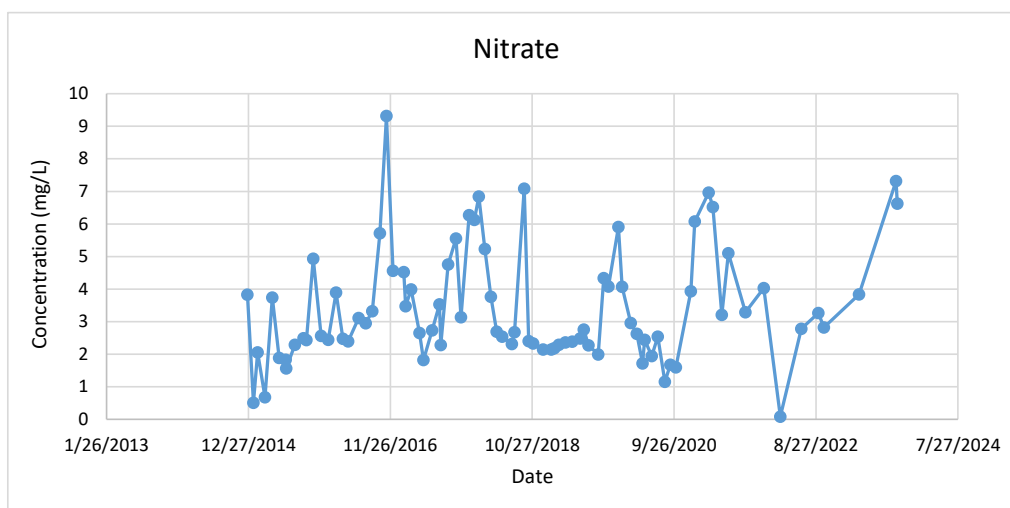


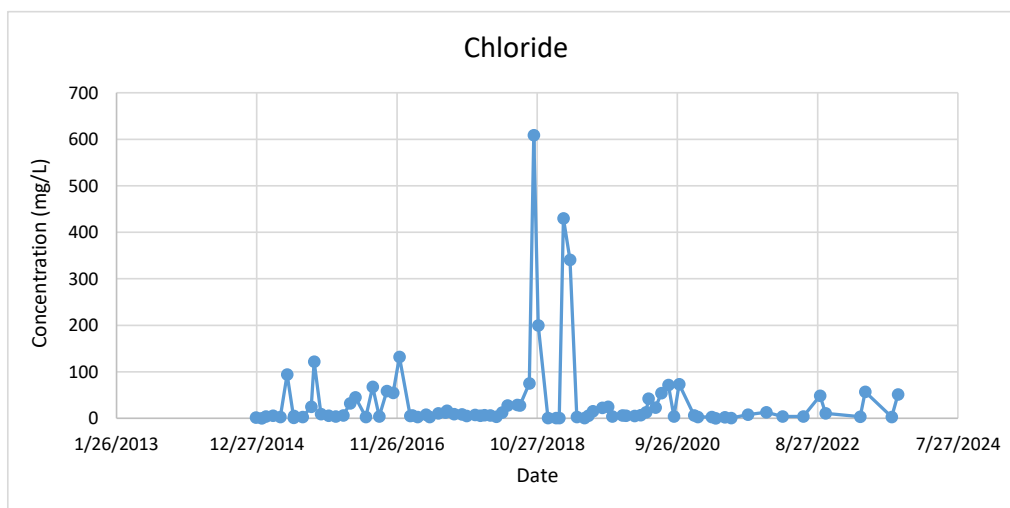
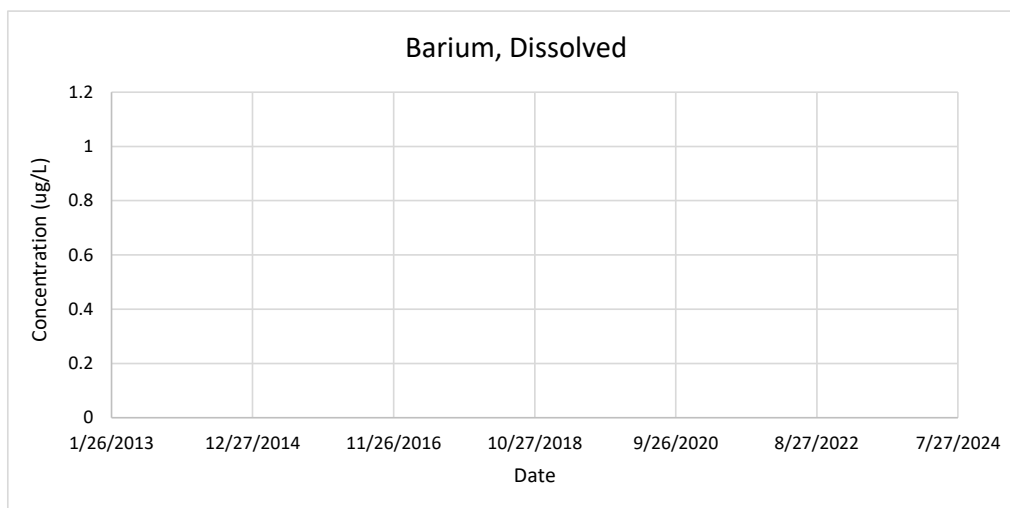
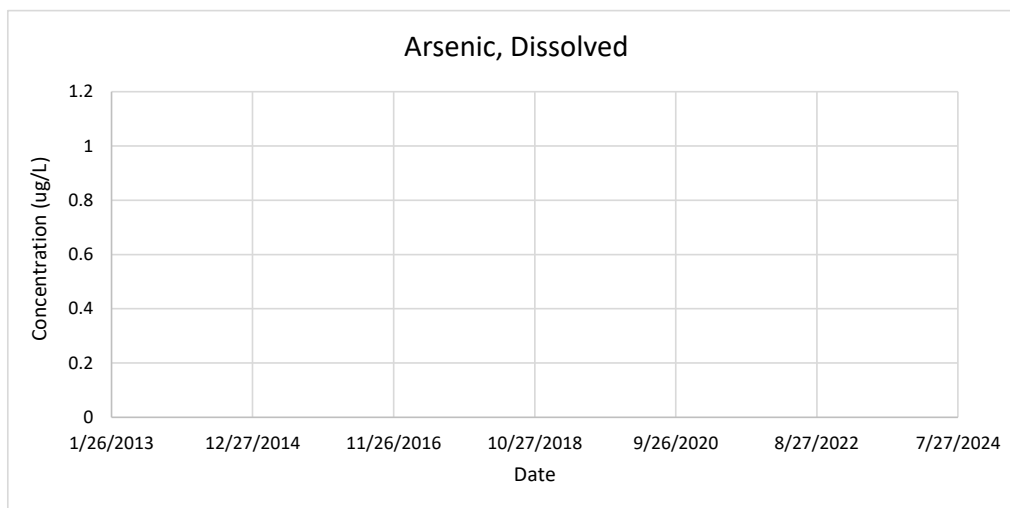


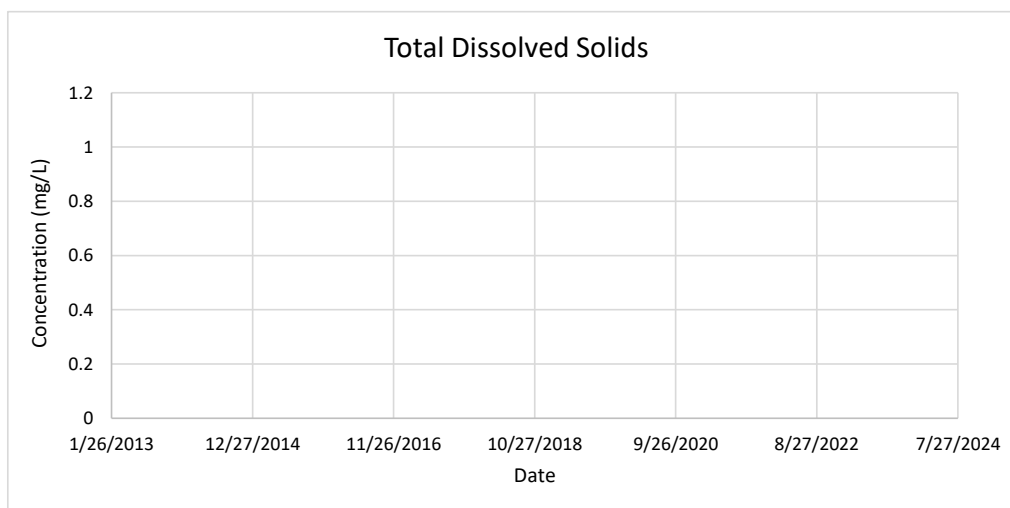
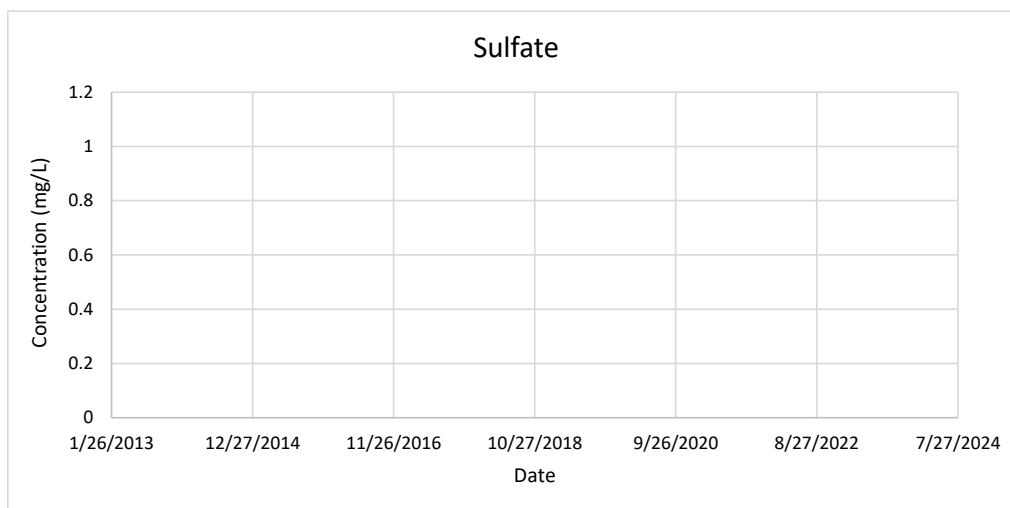
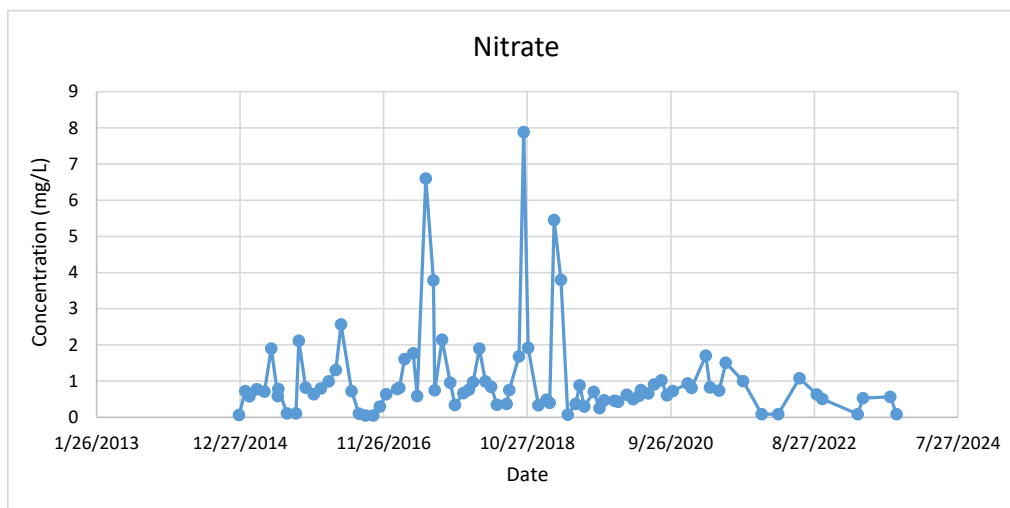


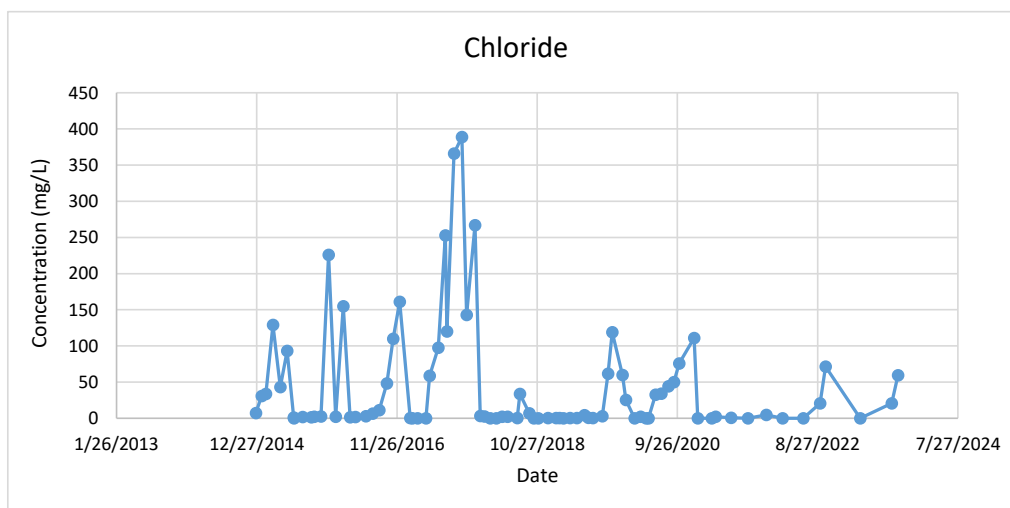
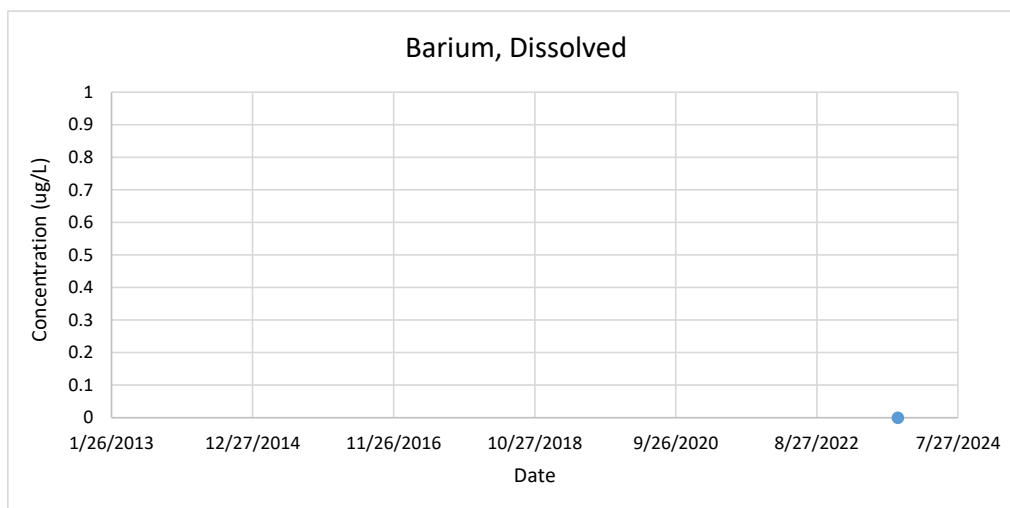
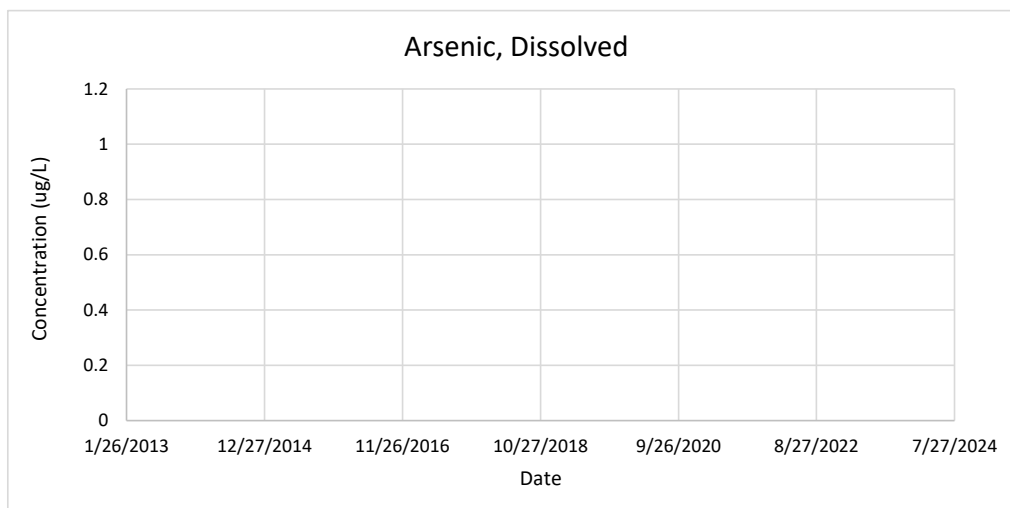


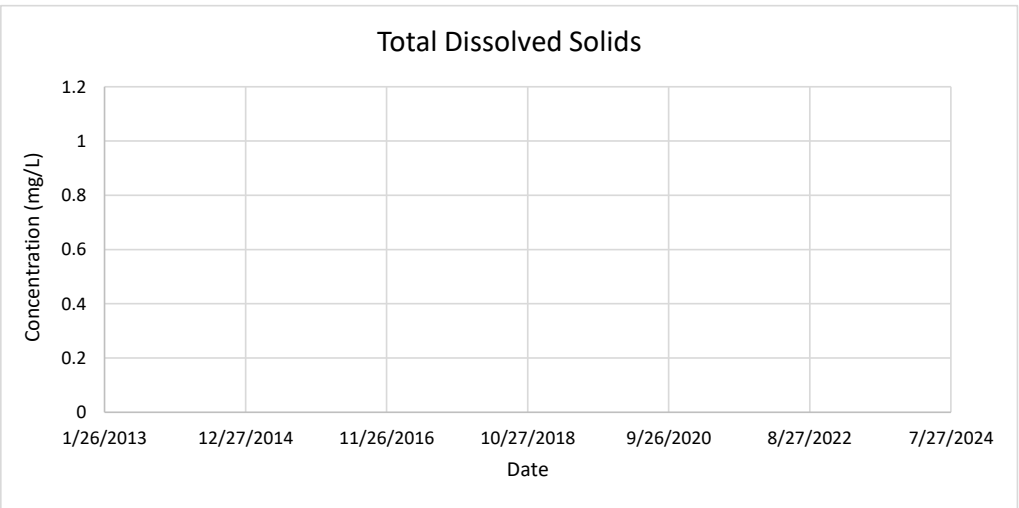
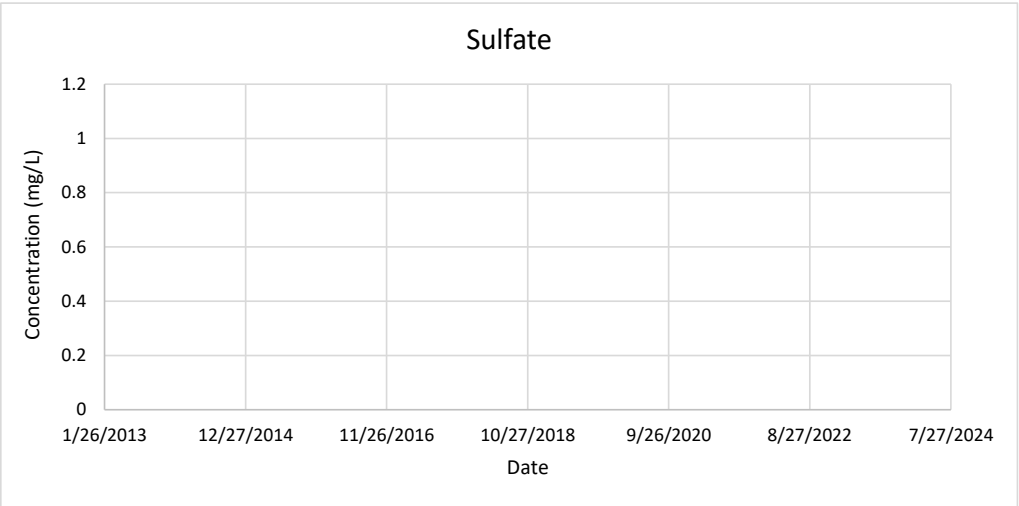
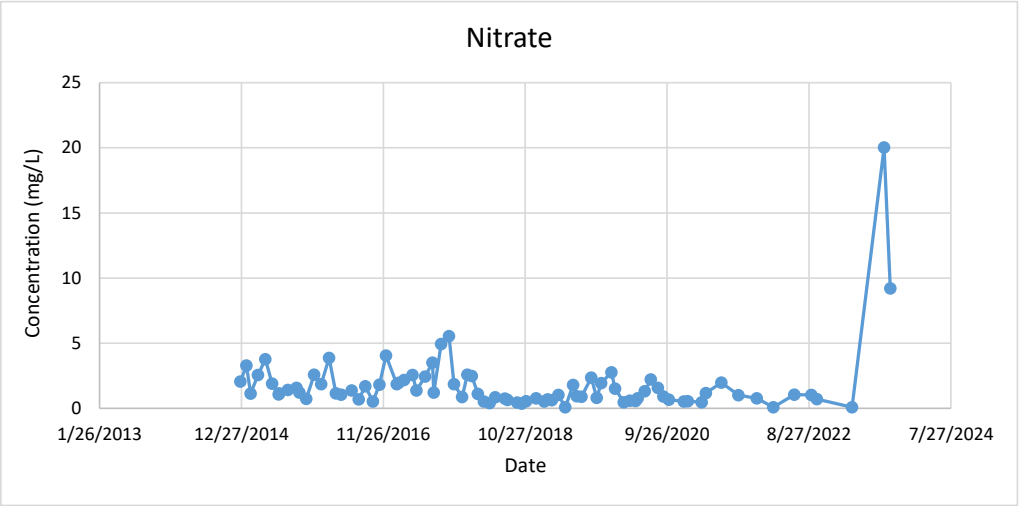
PW-1





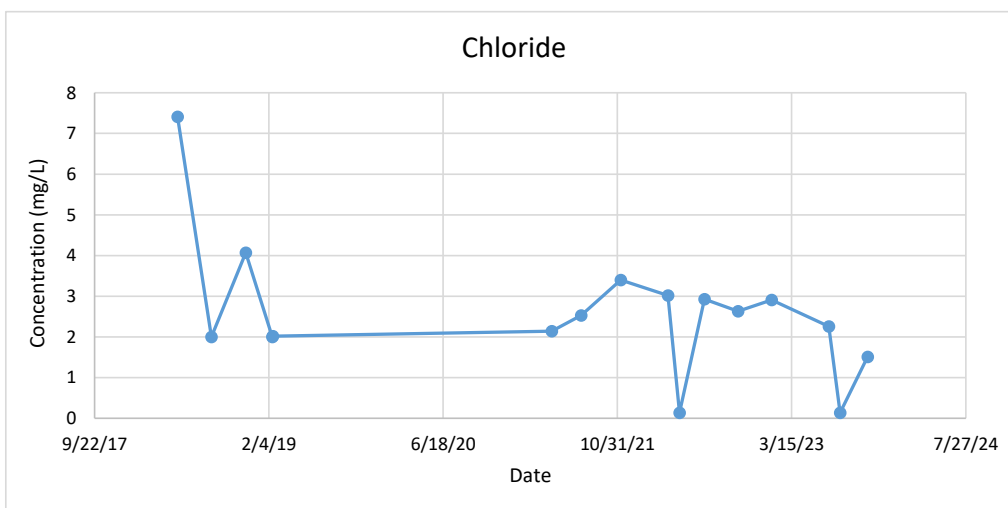
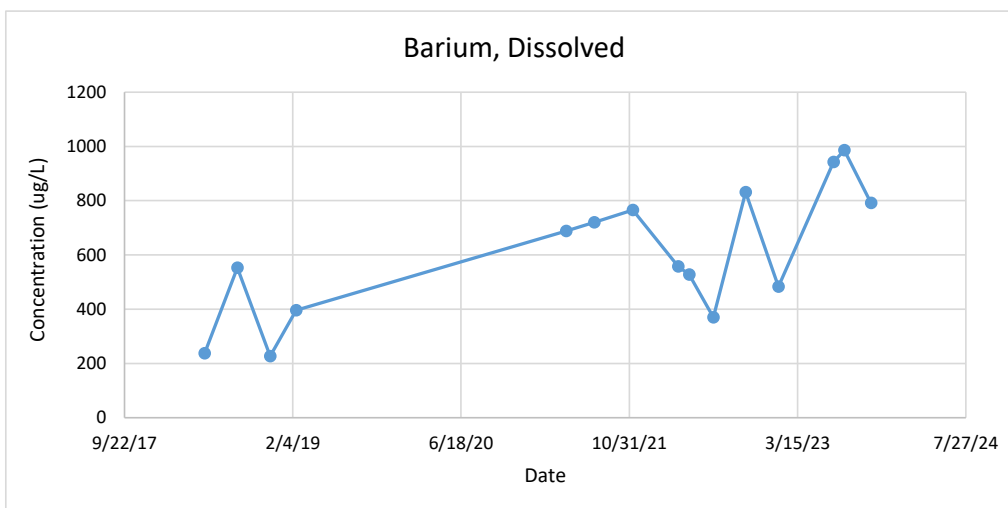
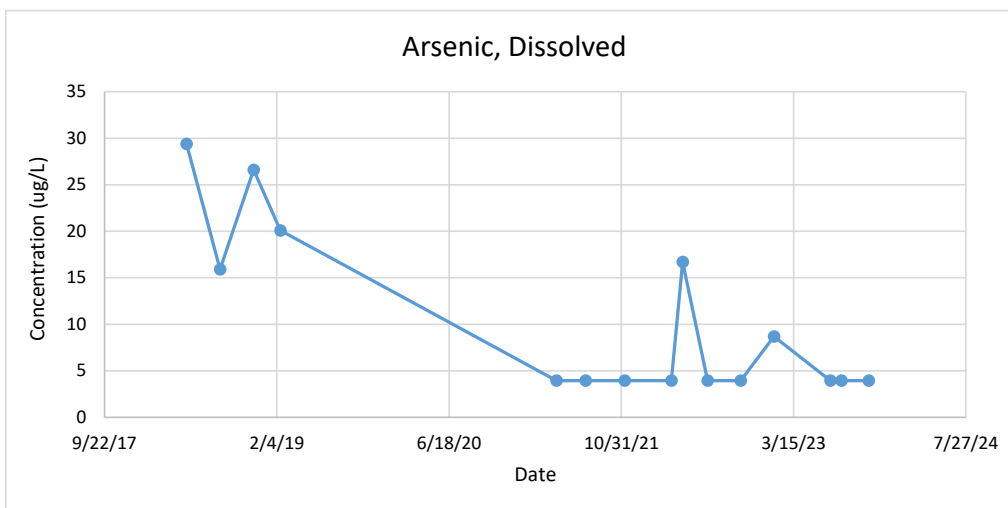




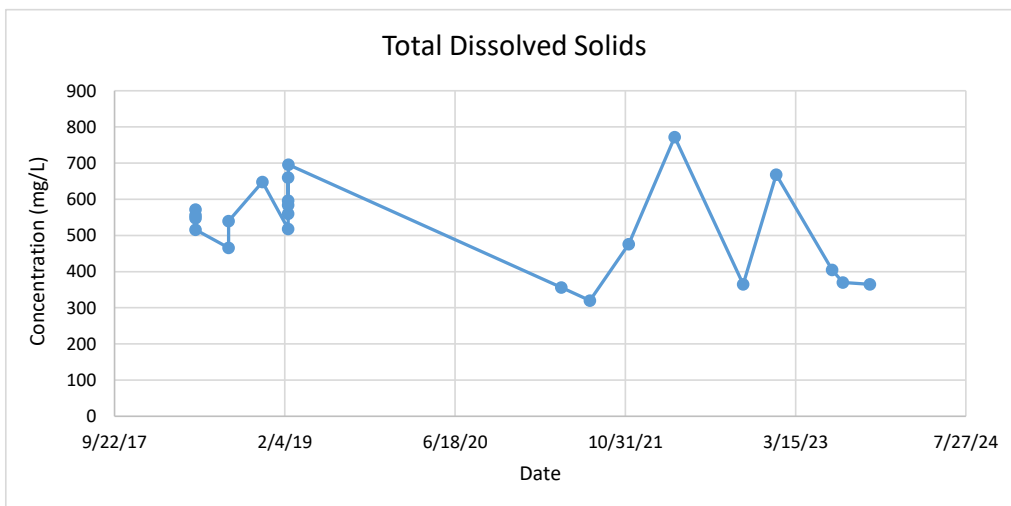
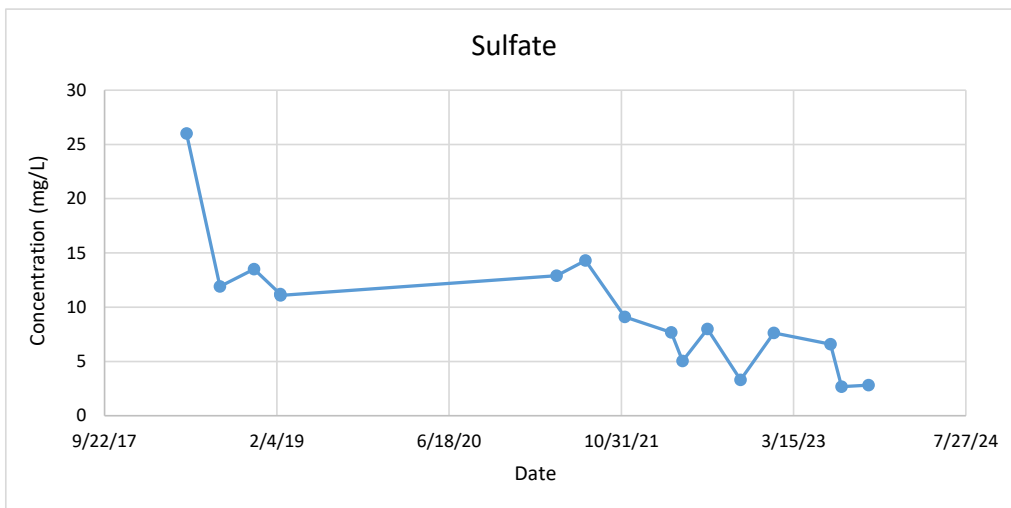
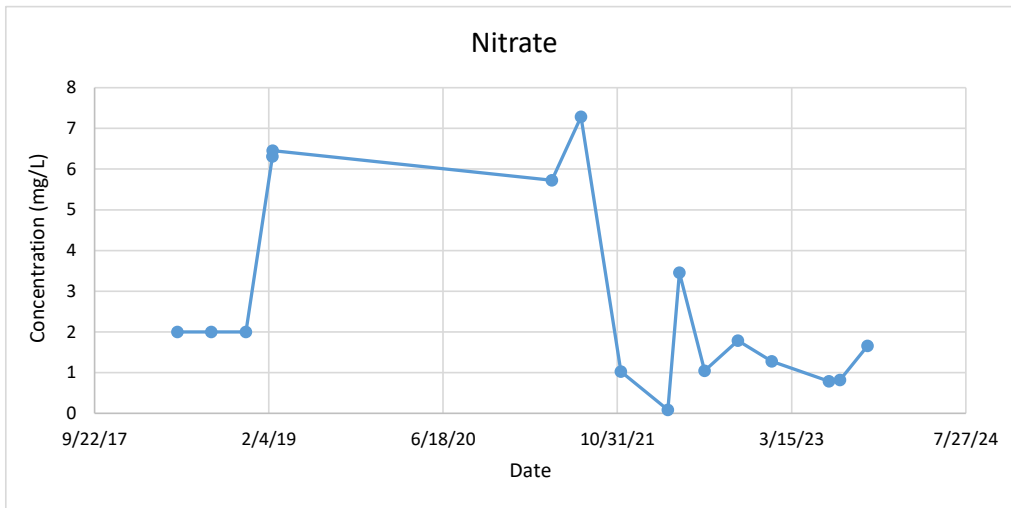


PITTSBURGH LIMESTONE

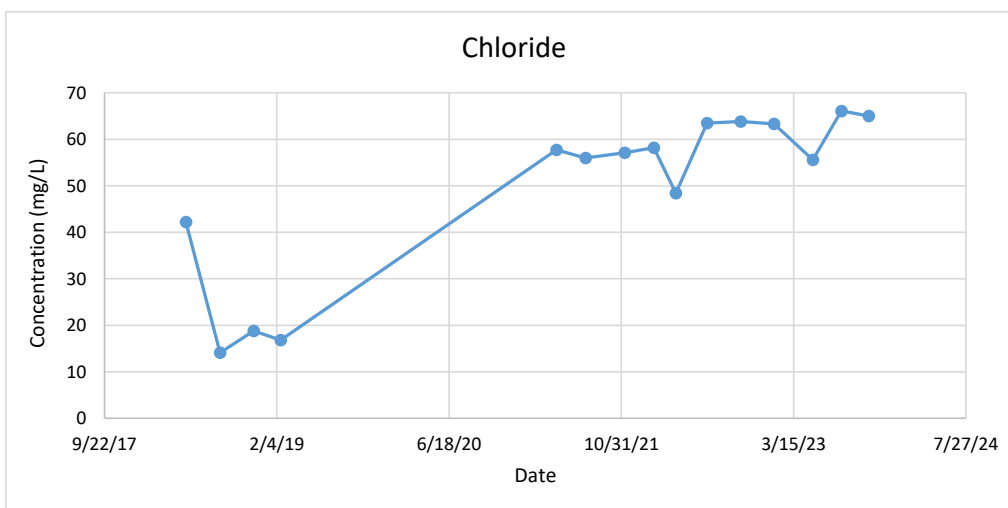
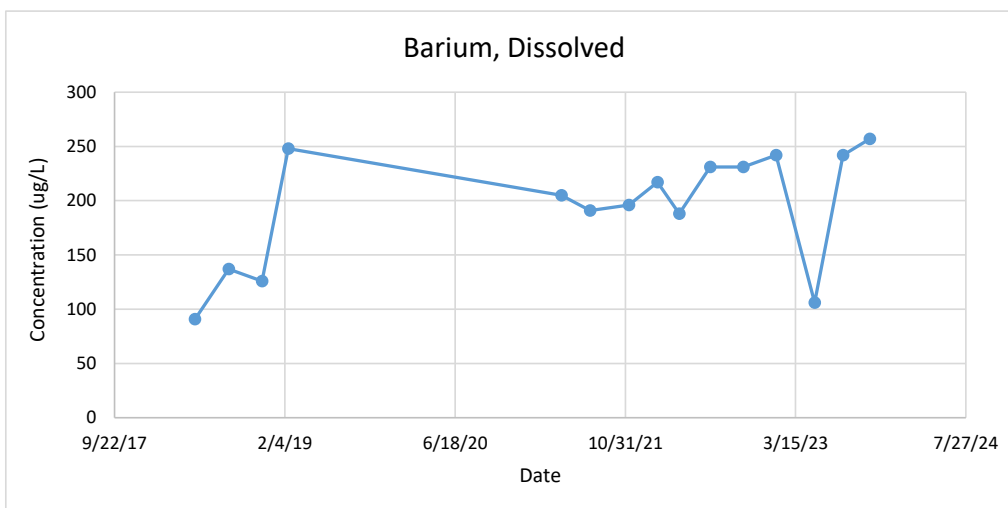
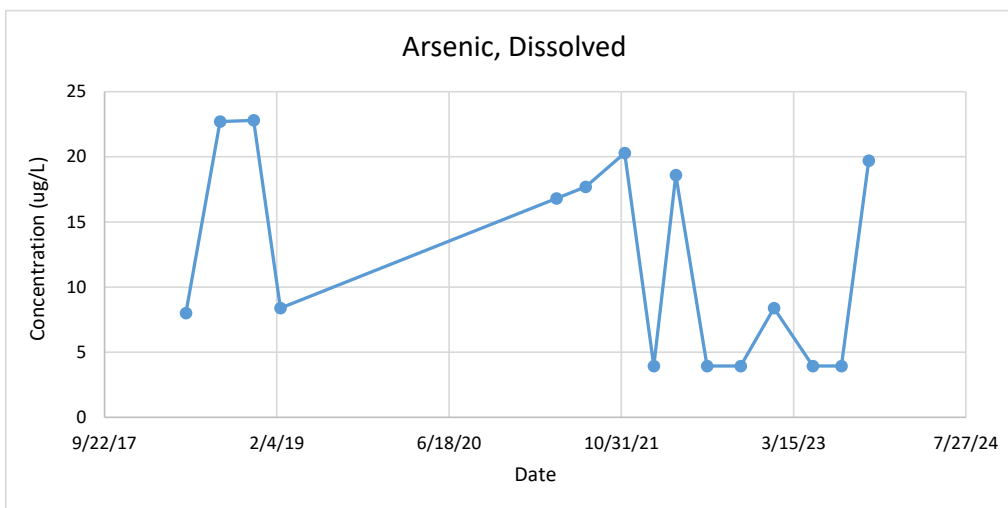
MW-701-LS



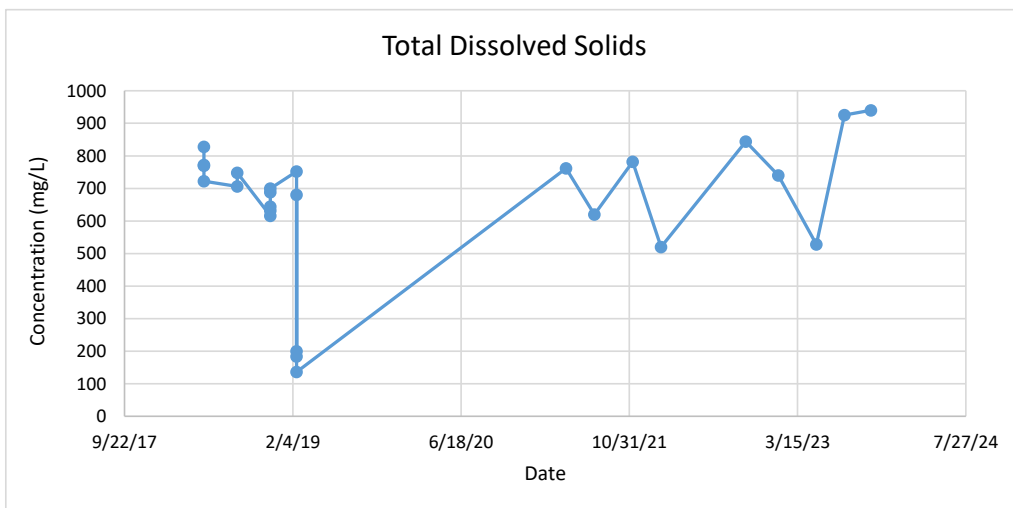
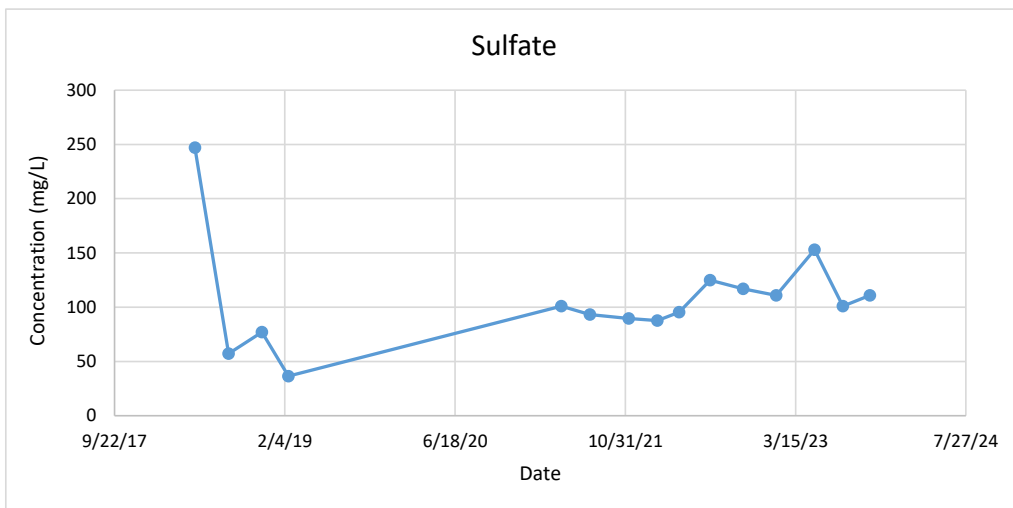
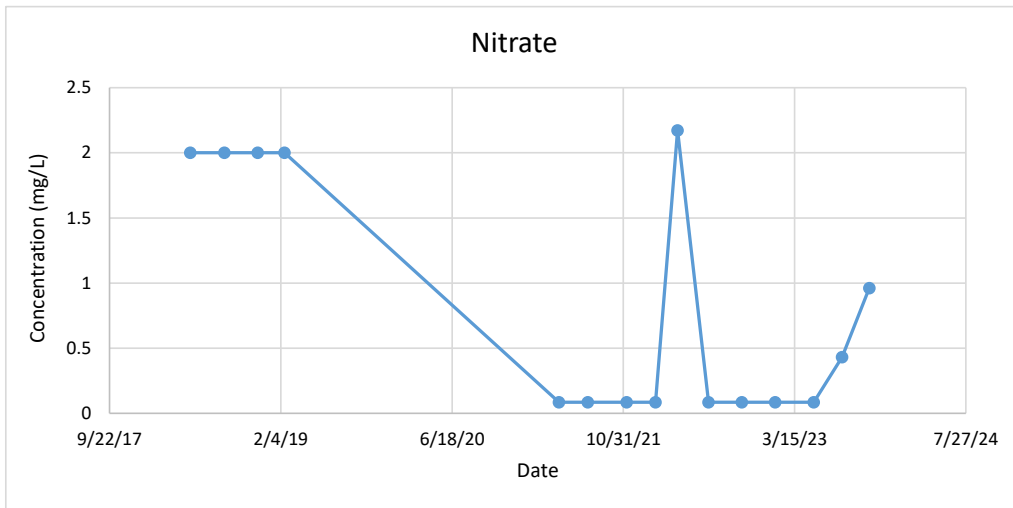
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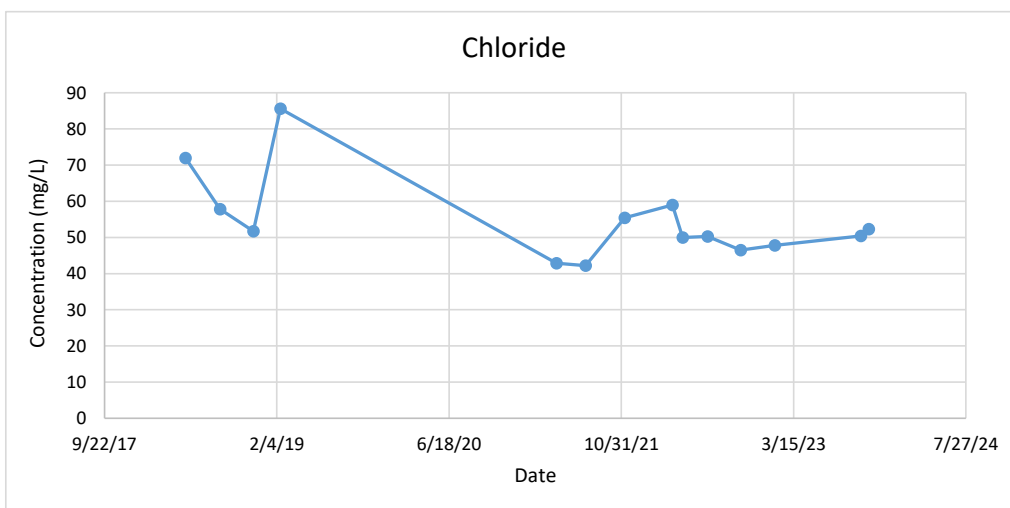
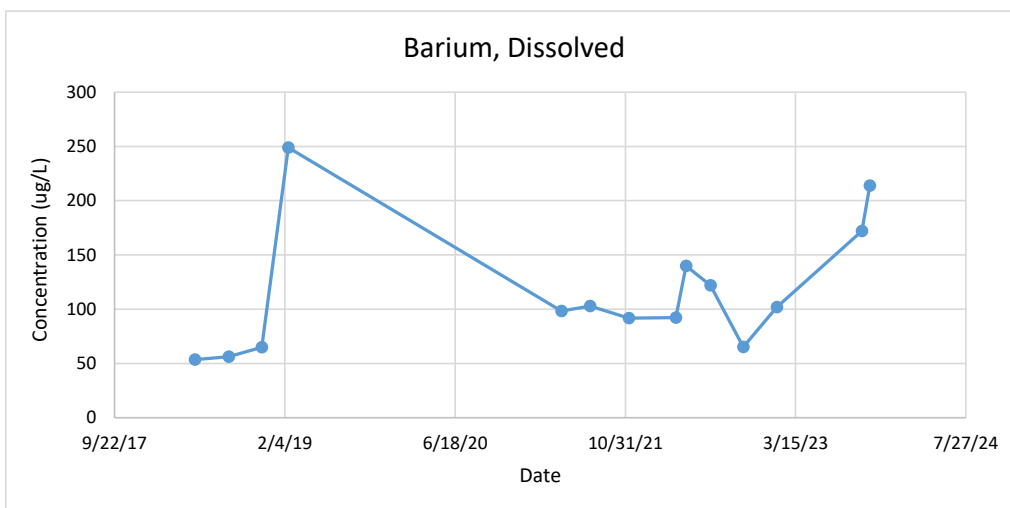
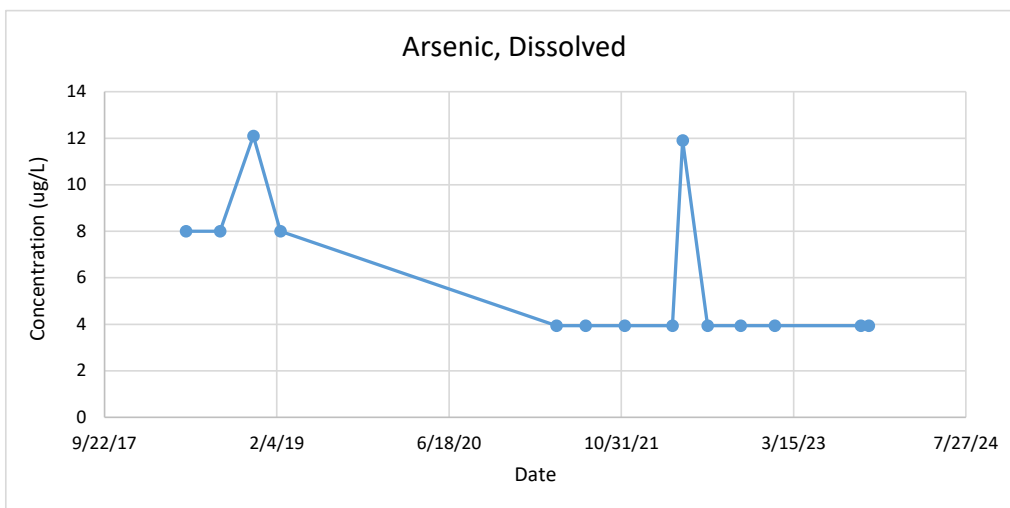
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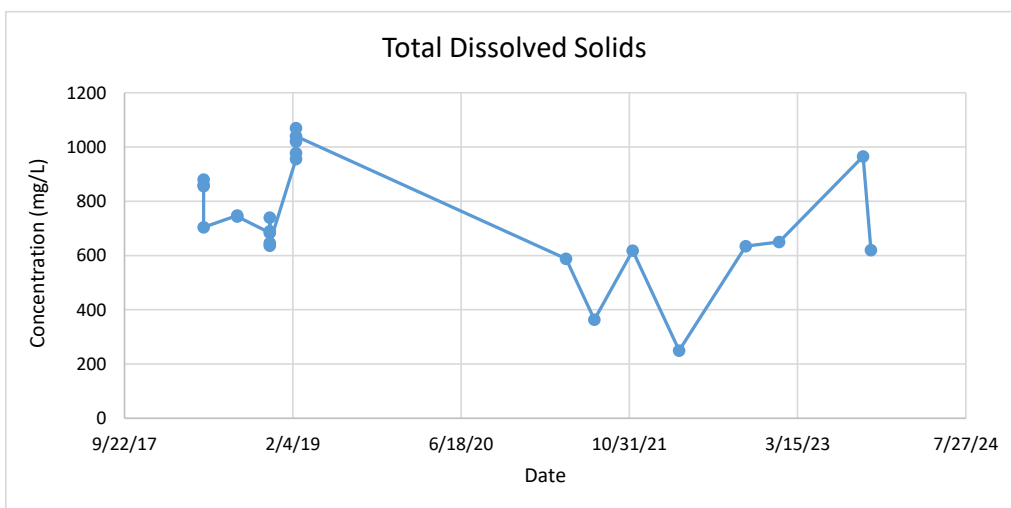
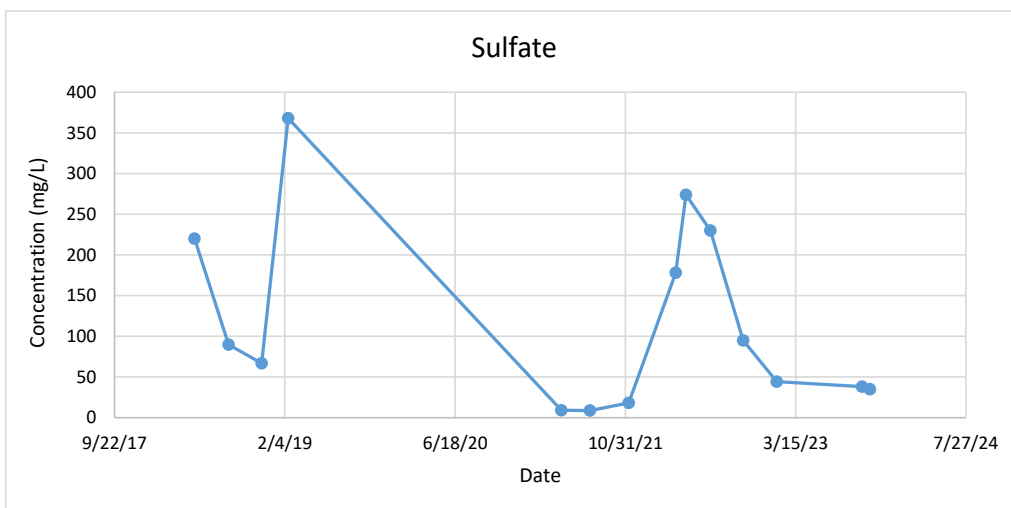
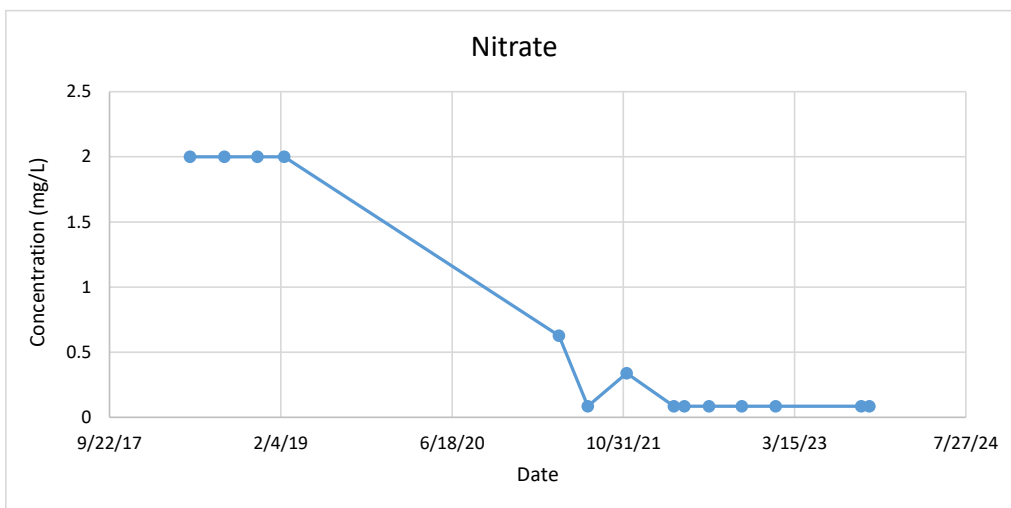
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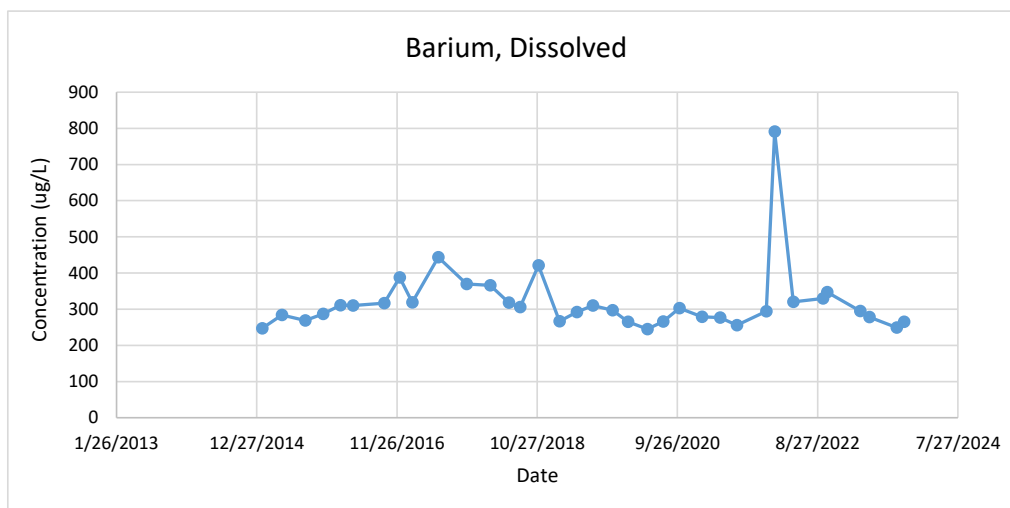
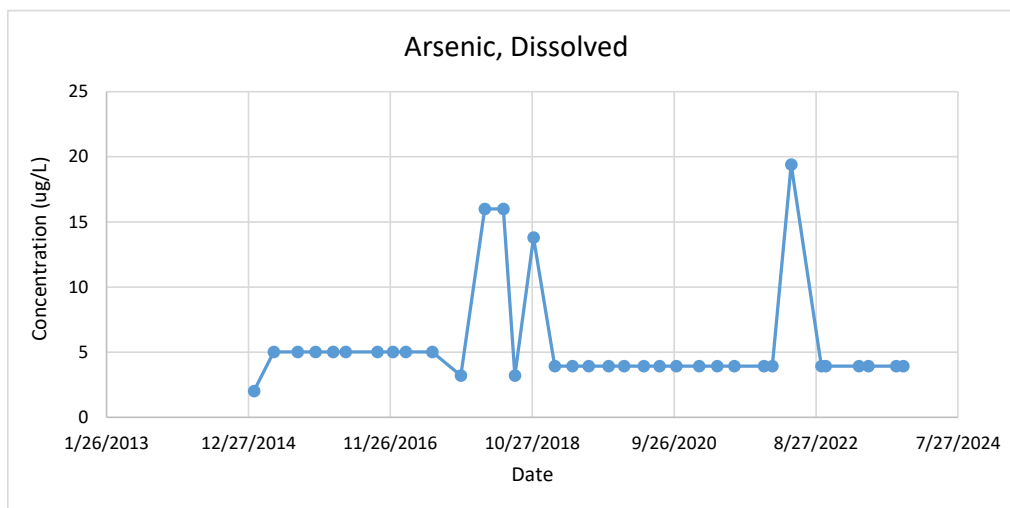


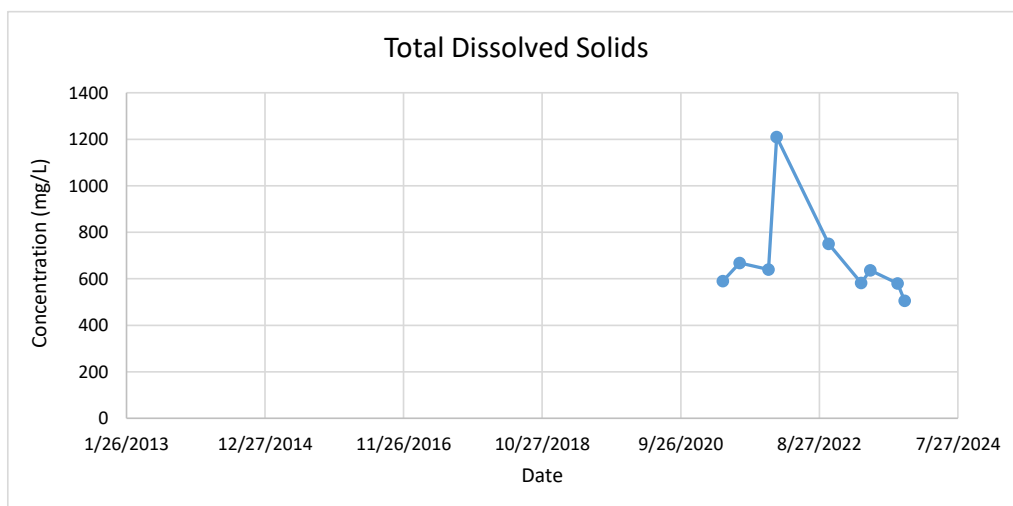
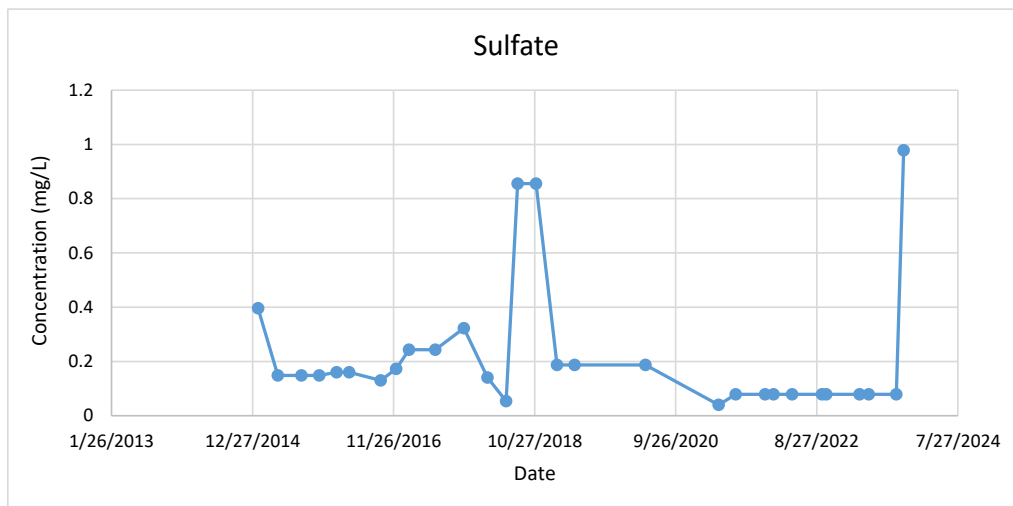
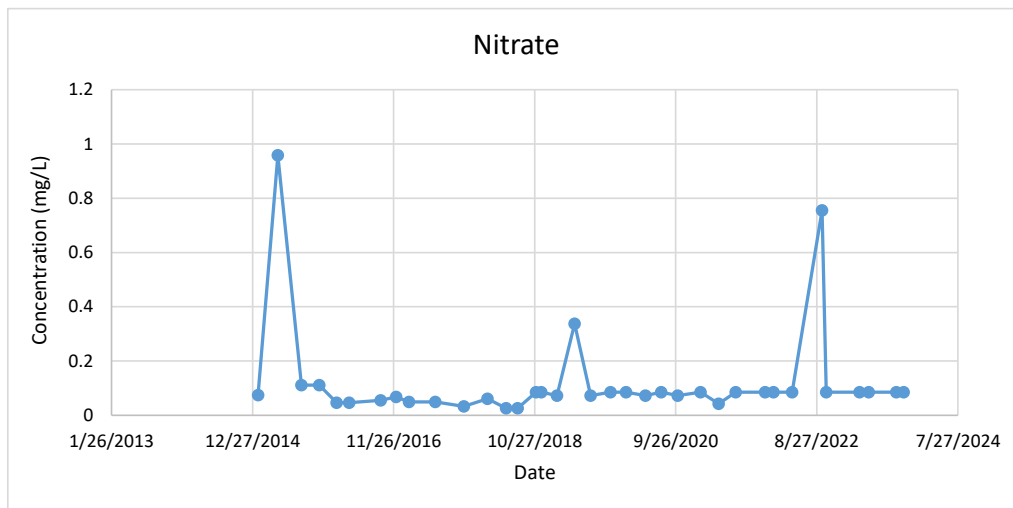
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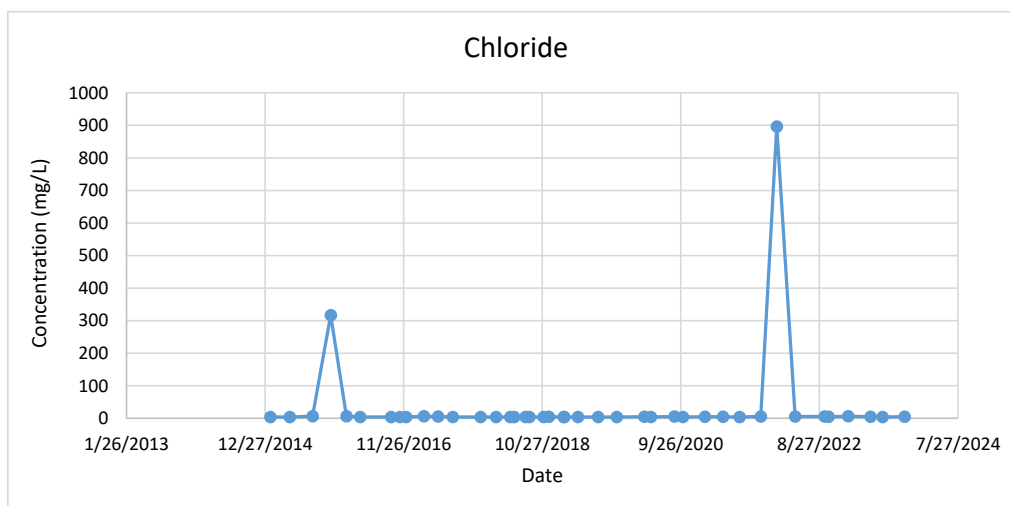
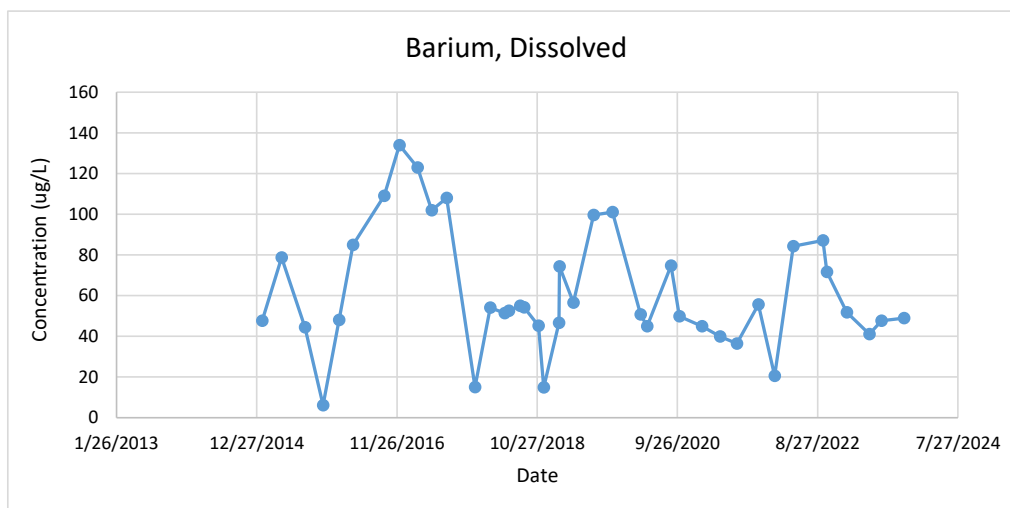
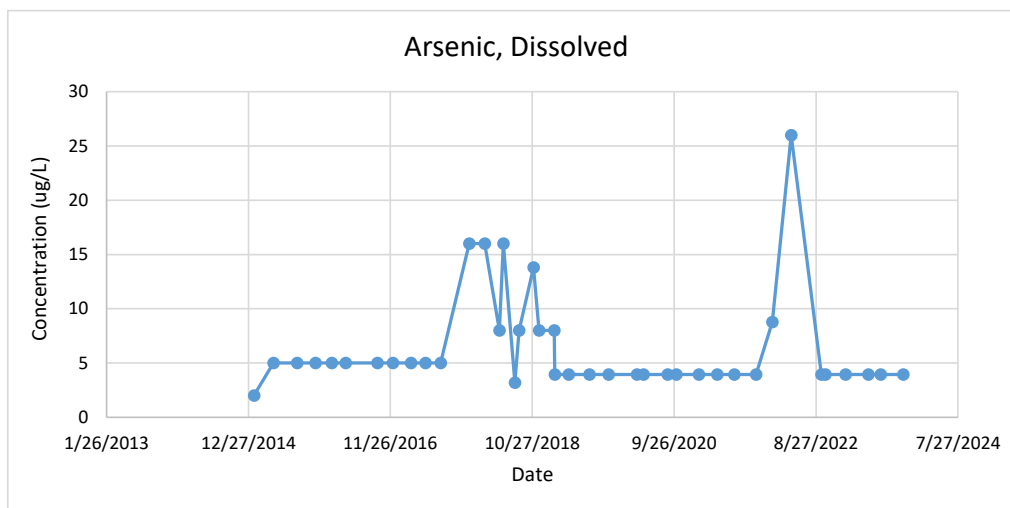


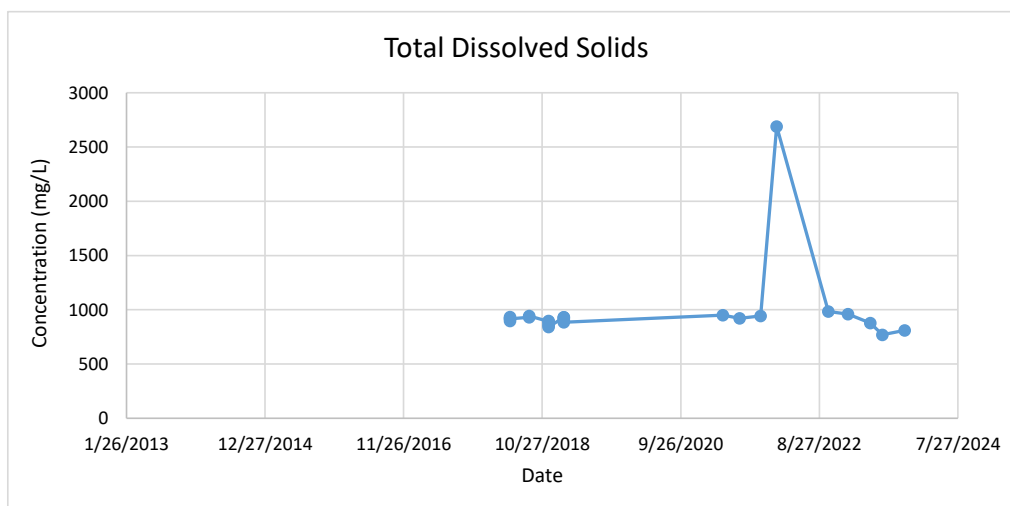
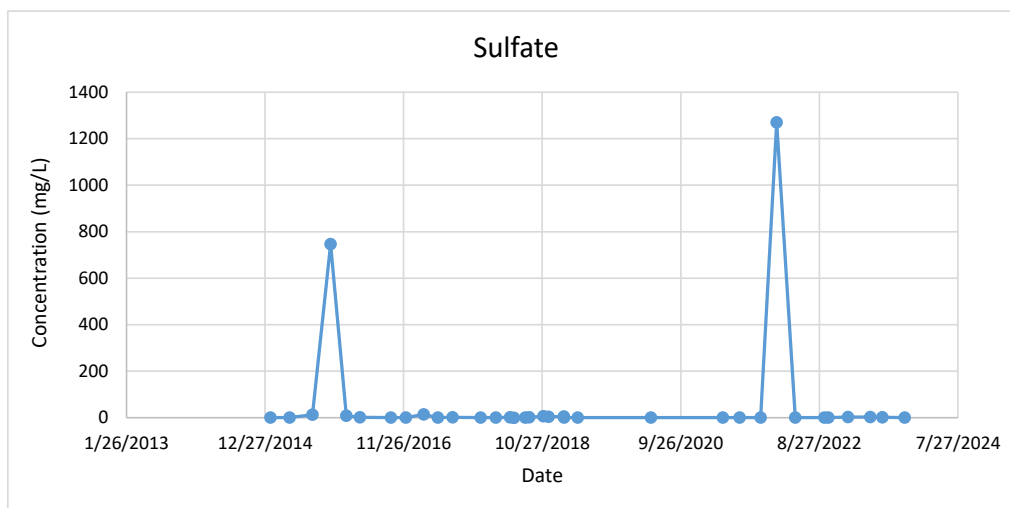
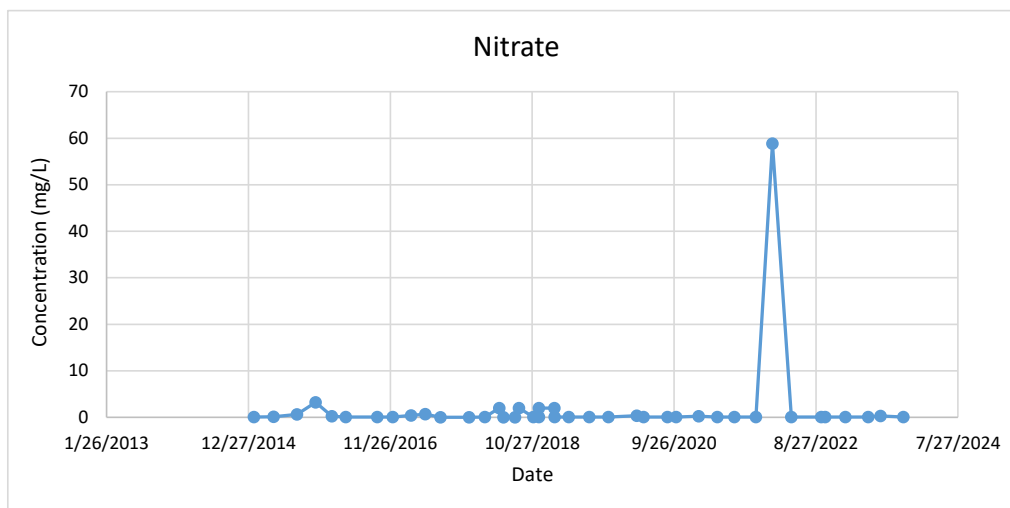
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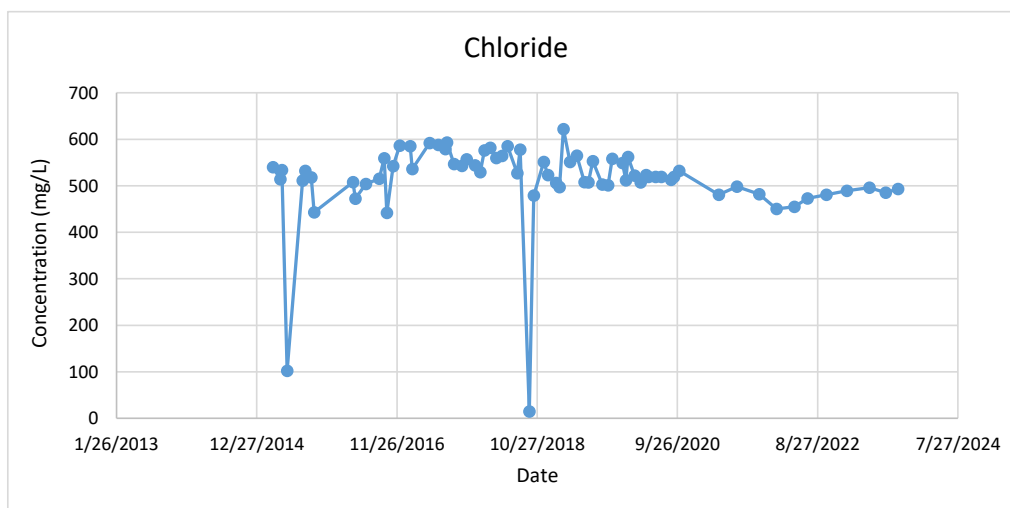
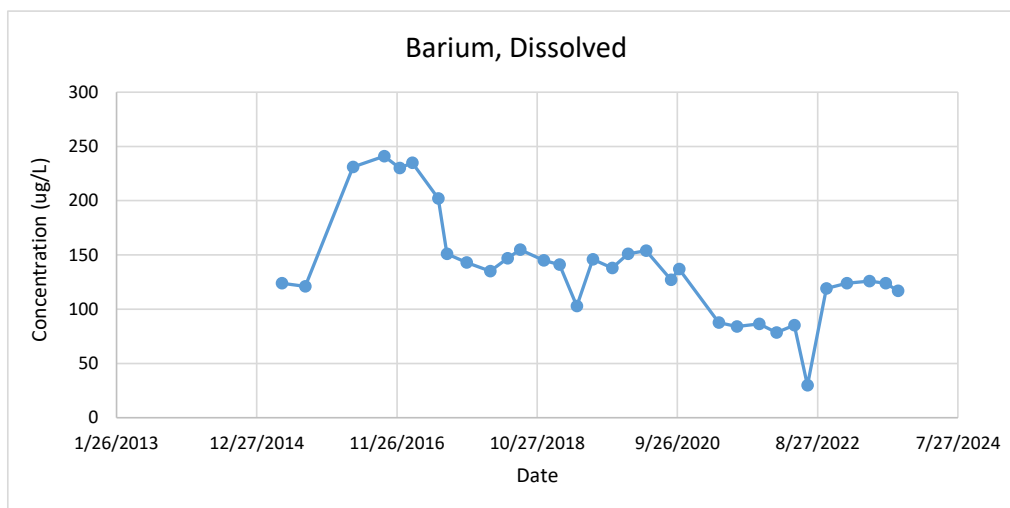
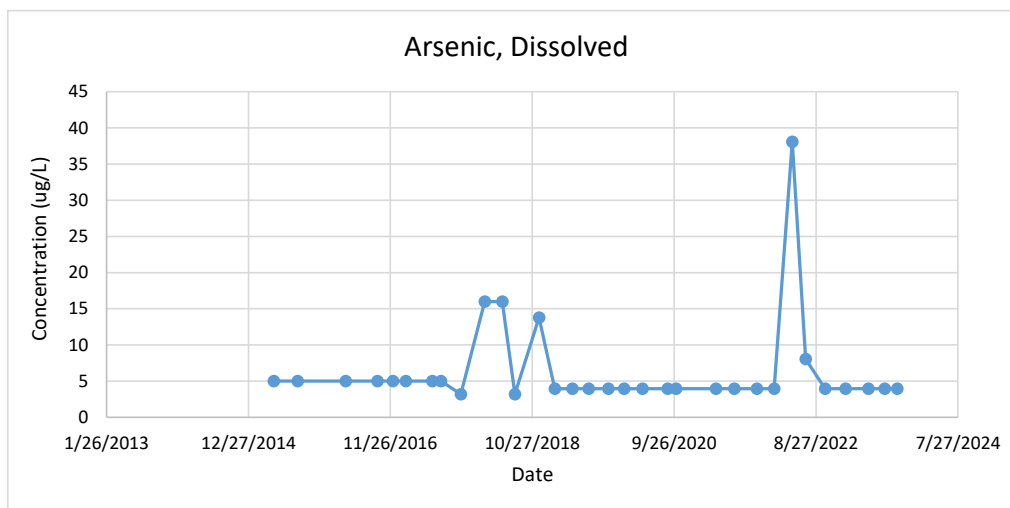


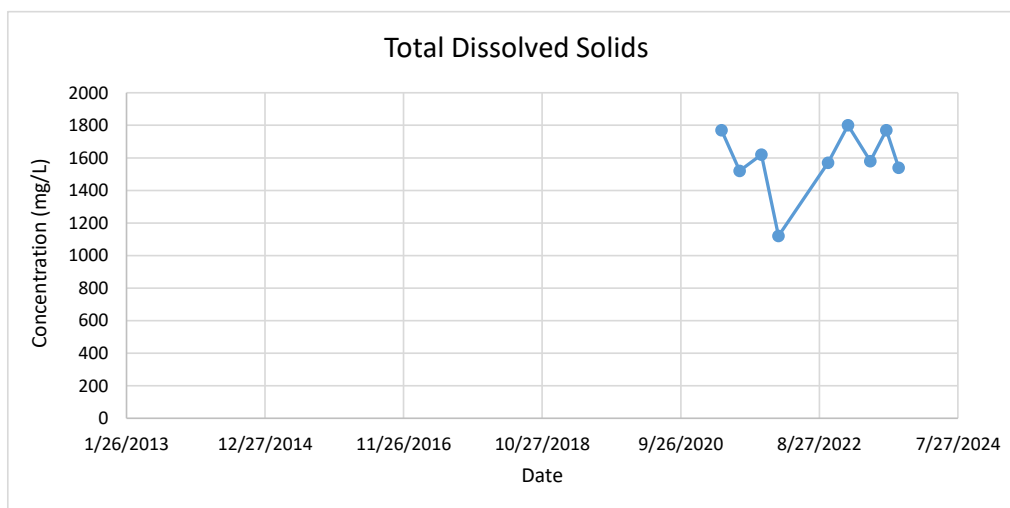
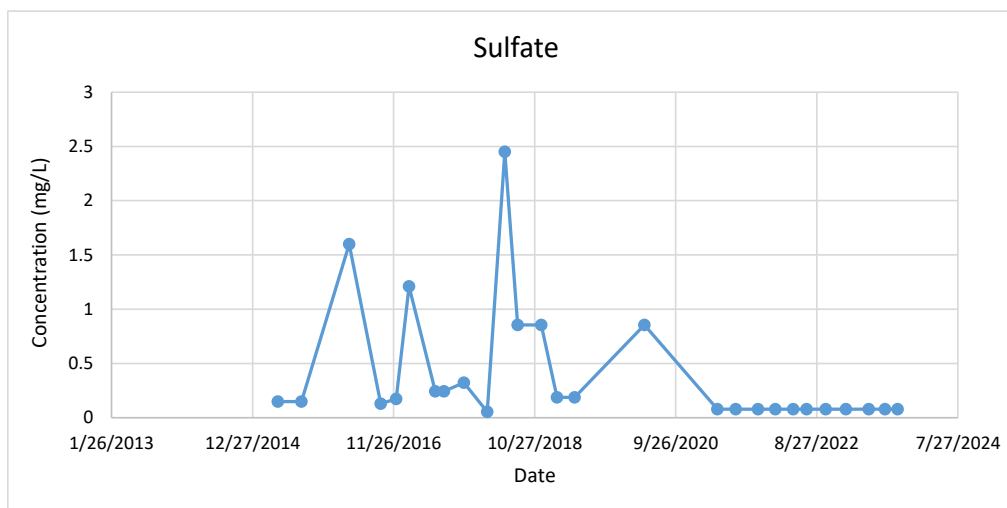
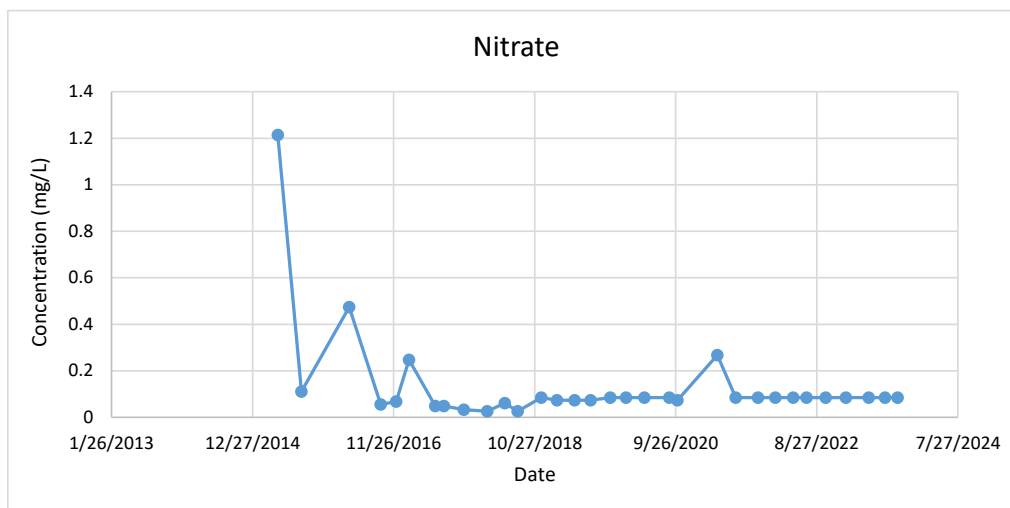


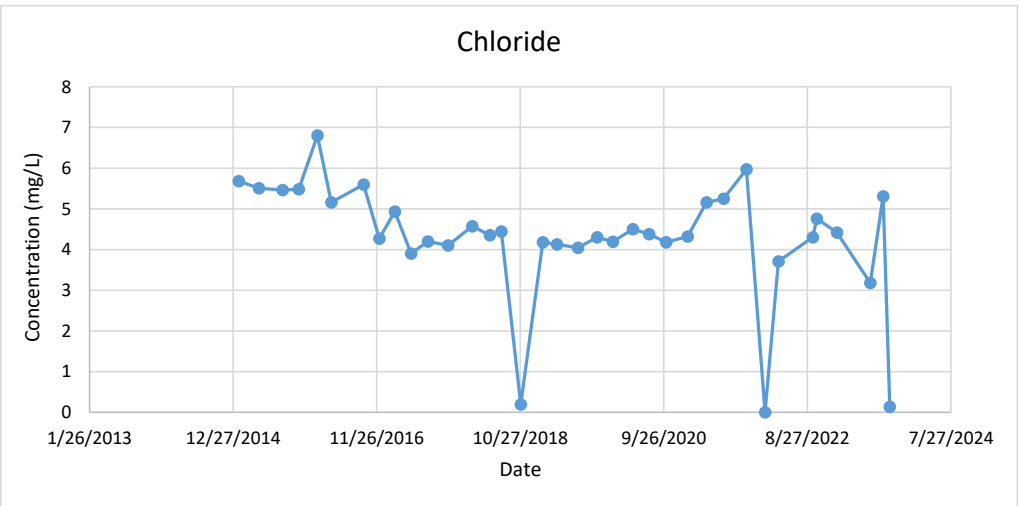
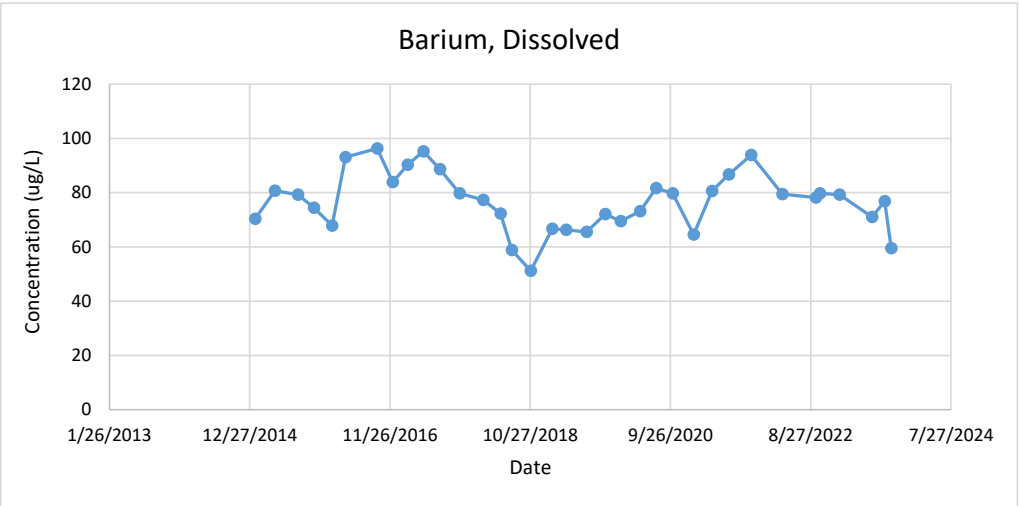
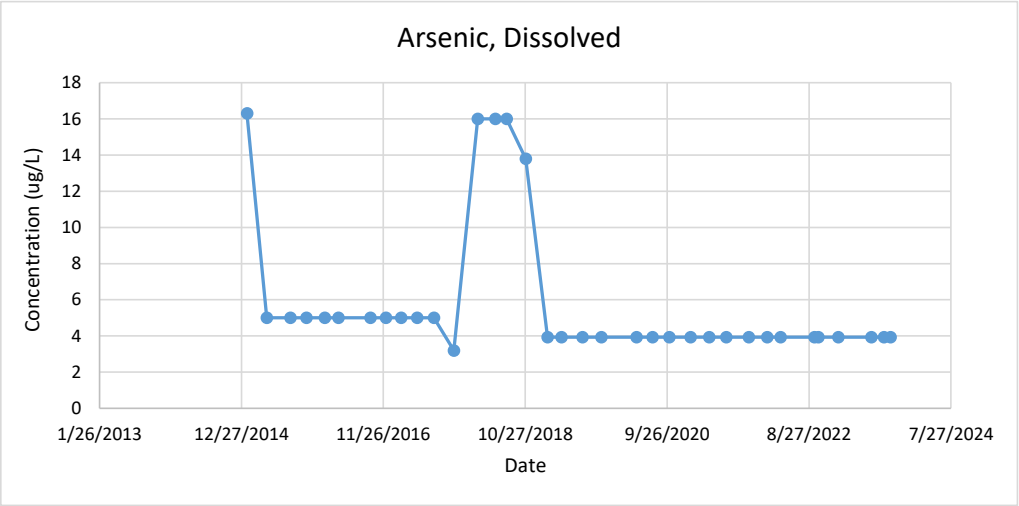


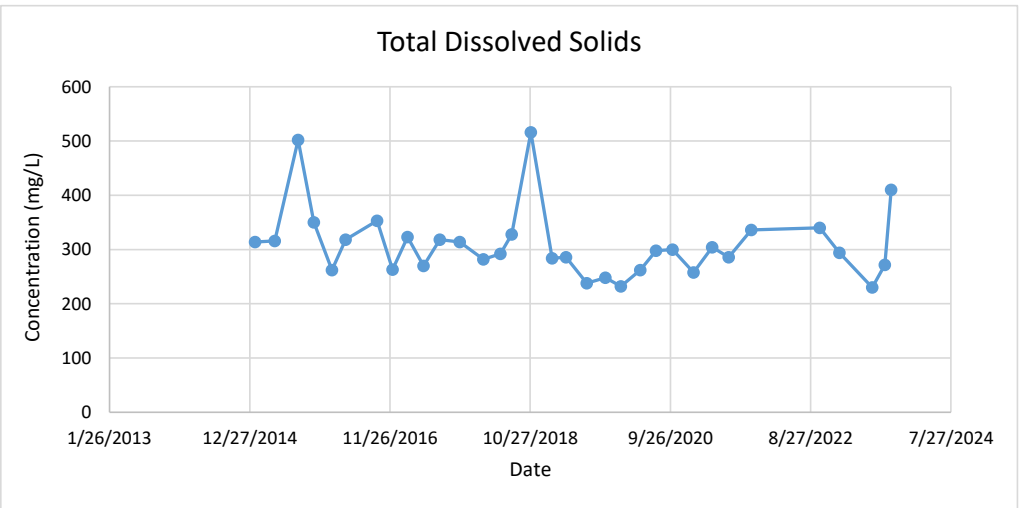
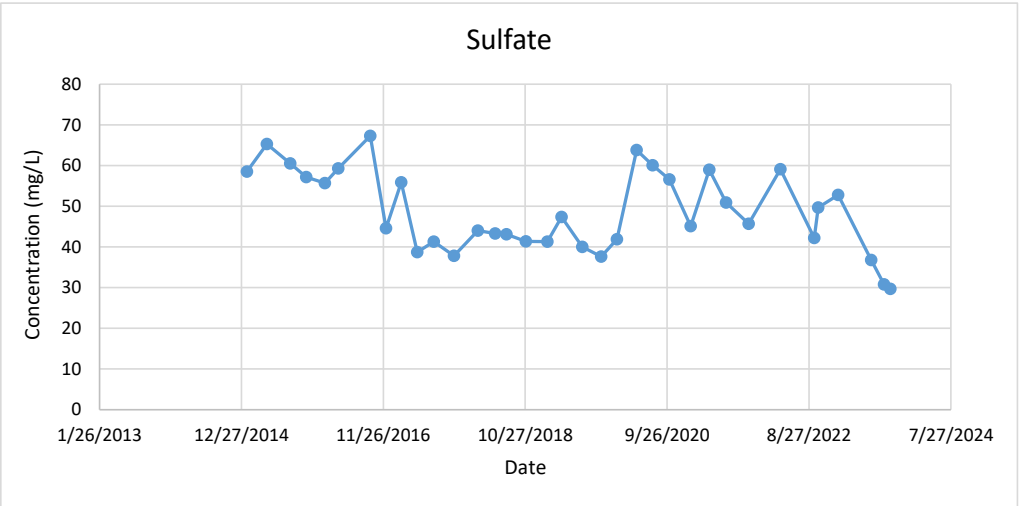
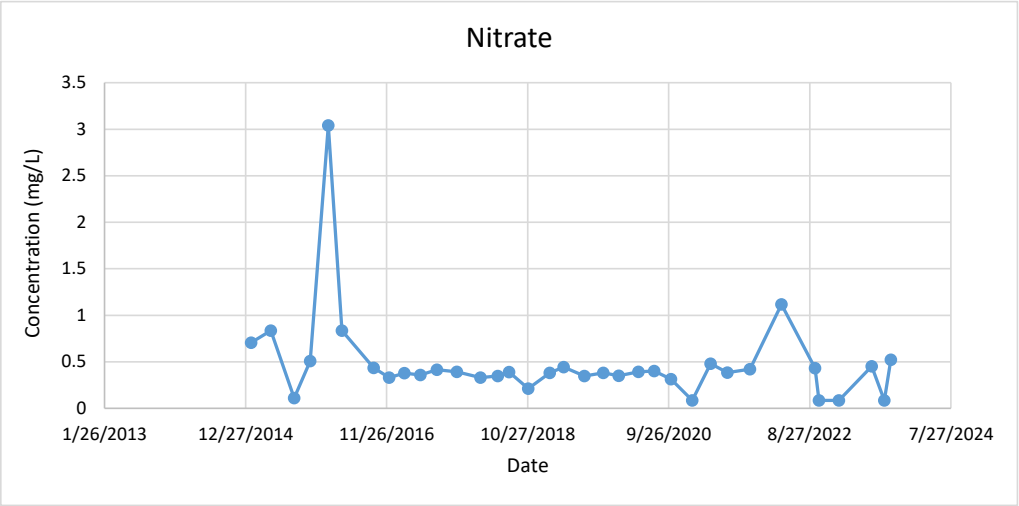


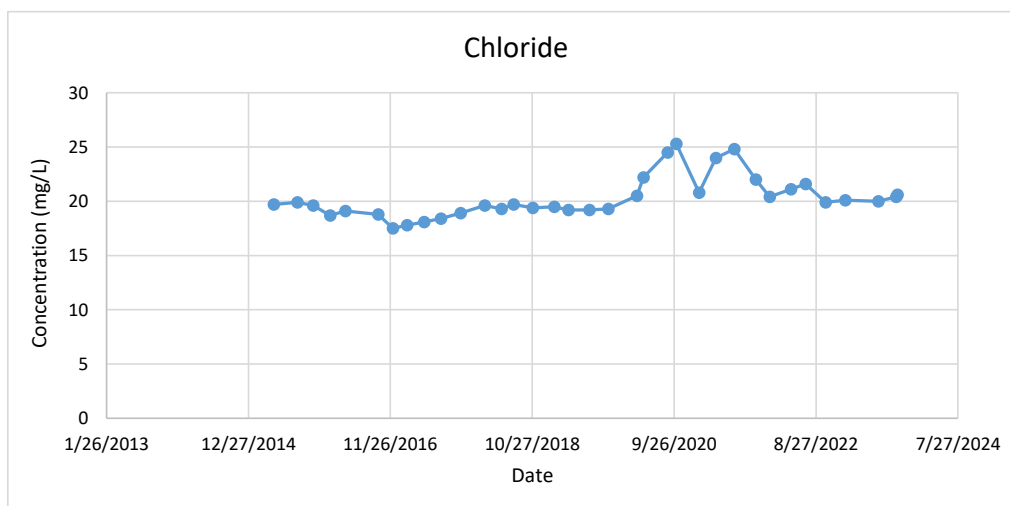
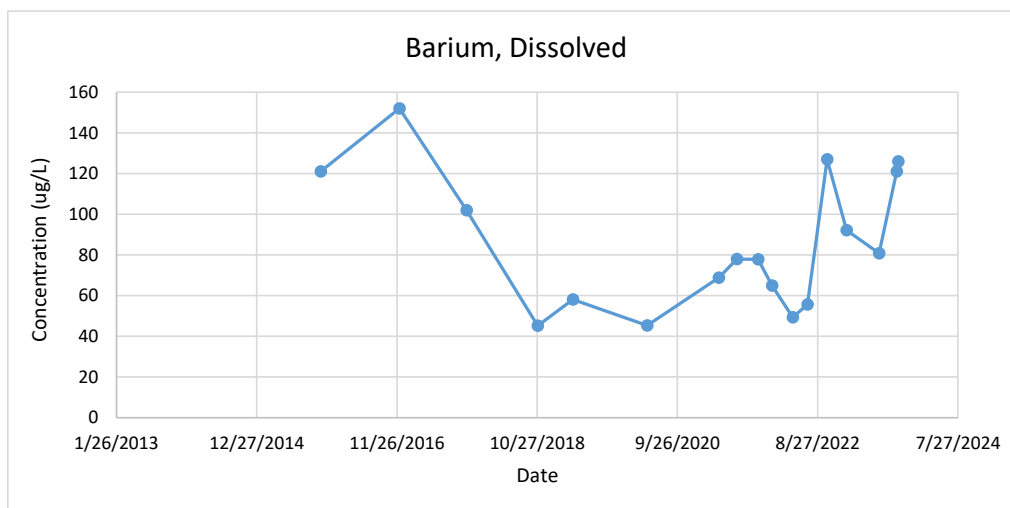
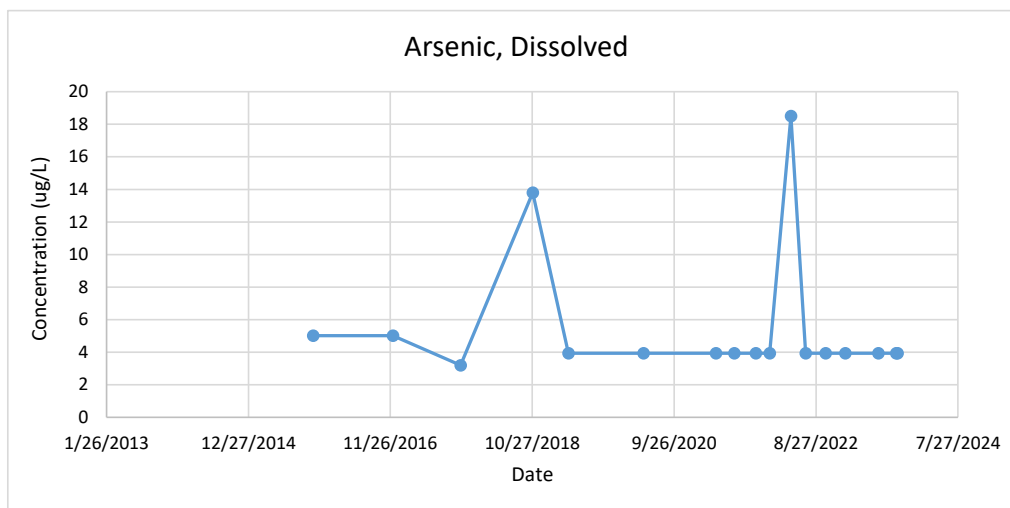


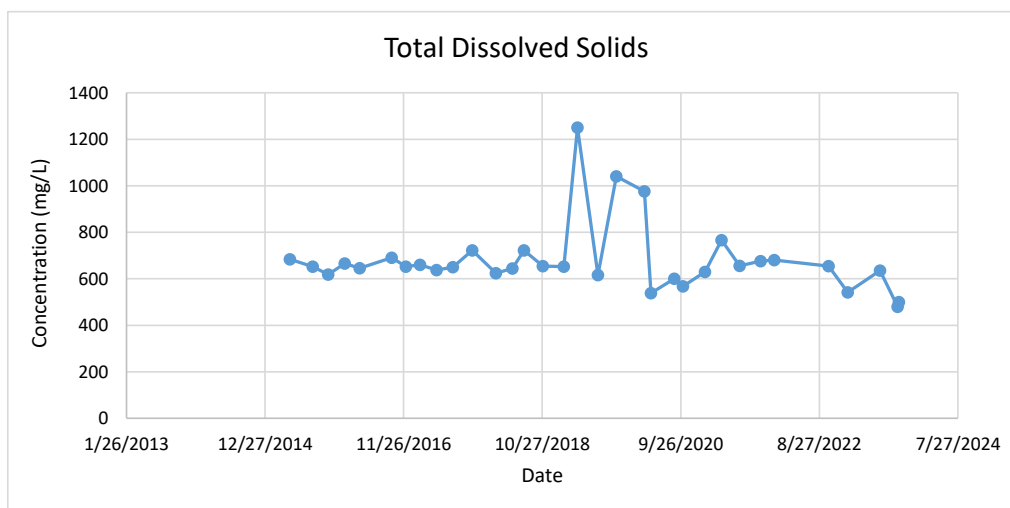
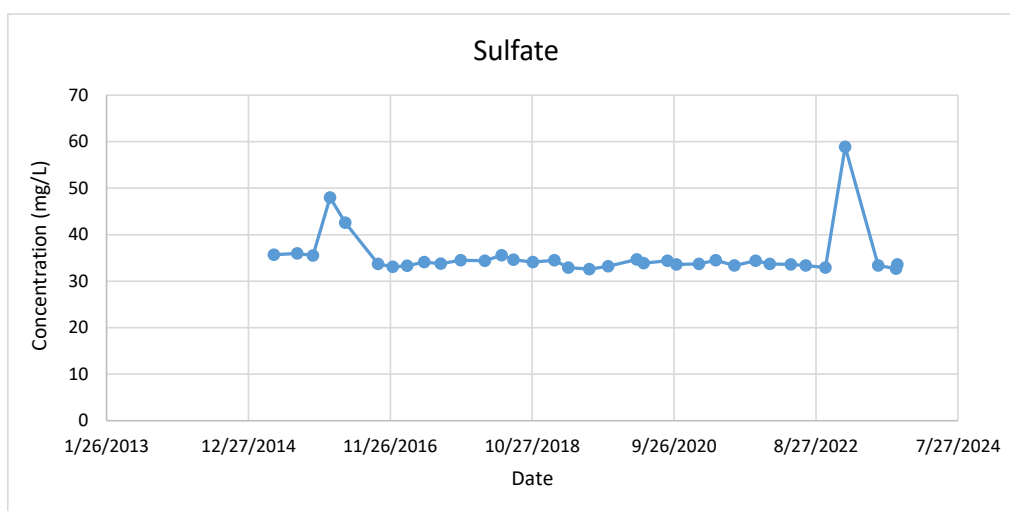
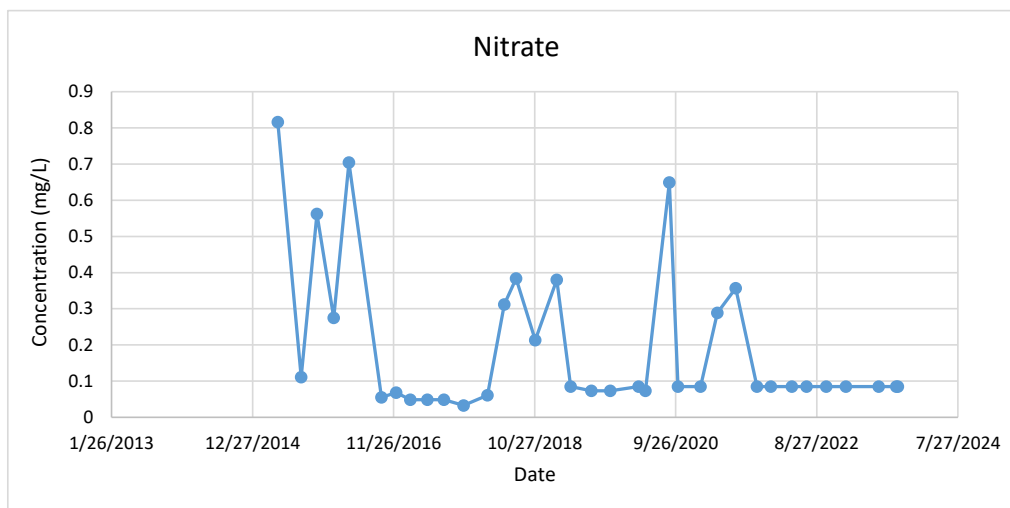


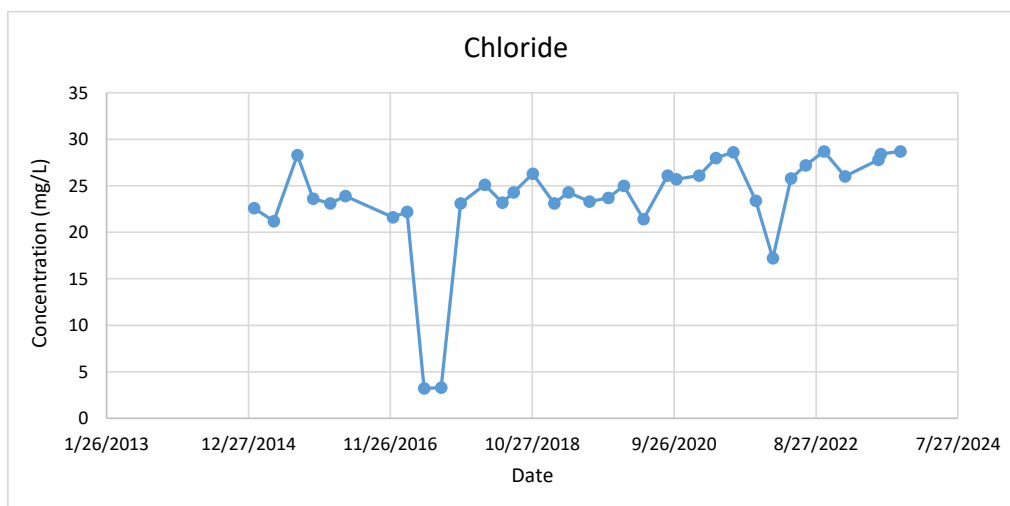
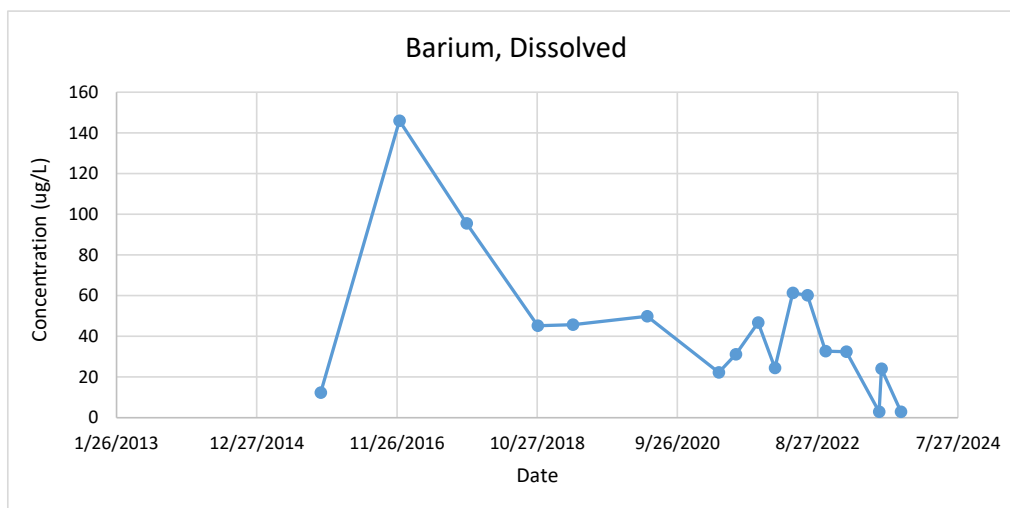
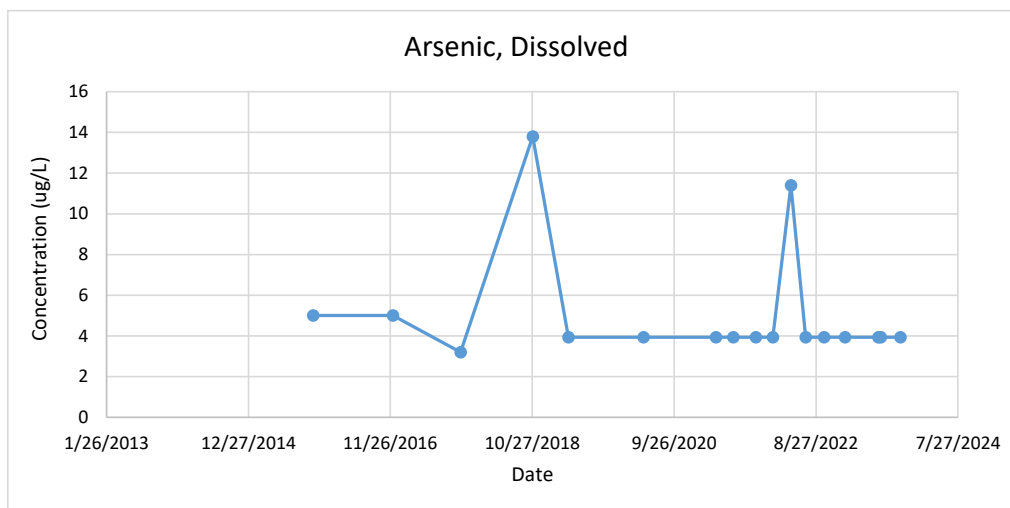


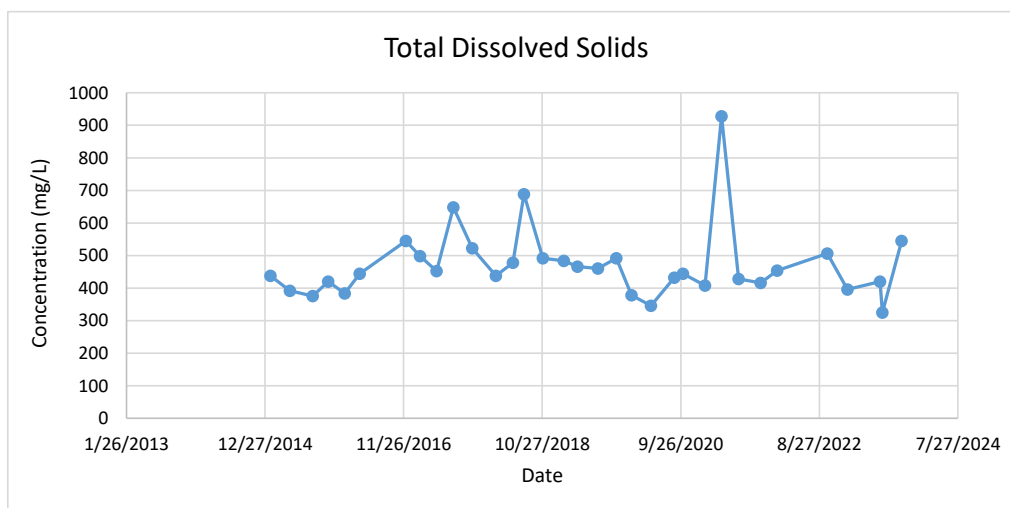
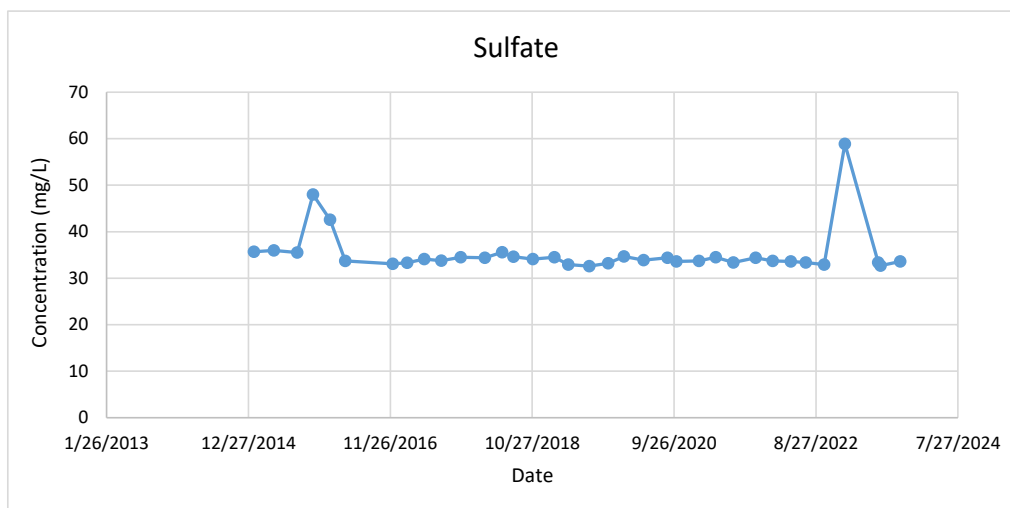
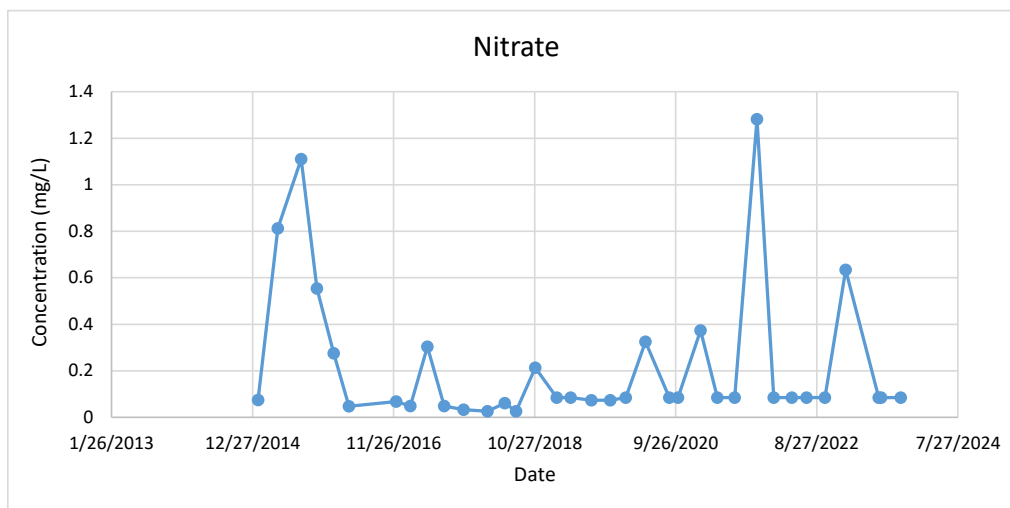


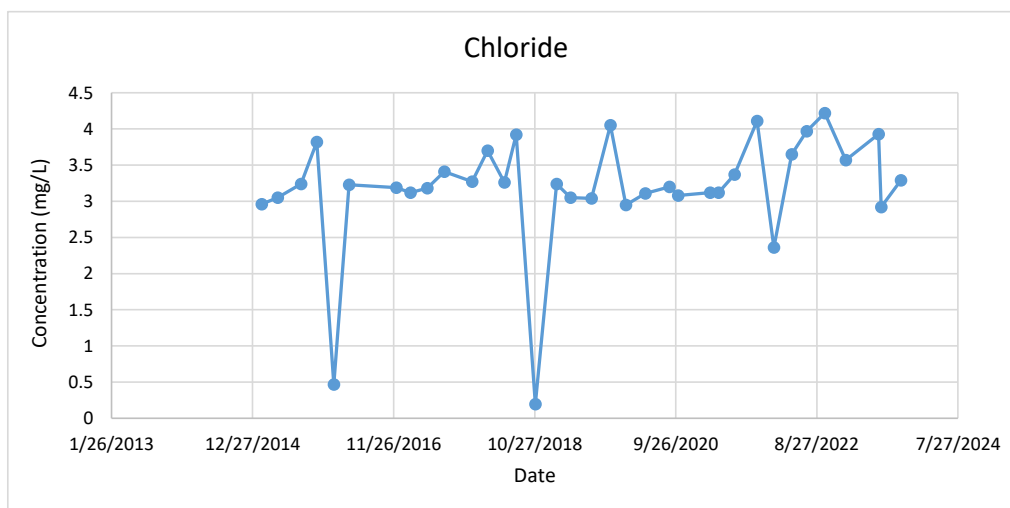
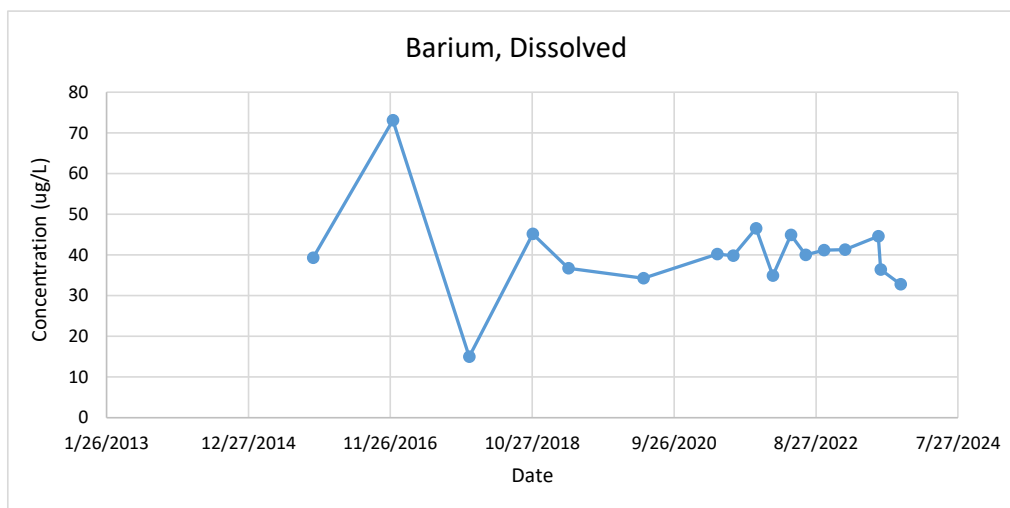
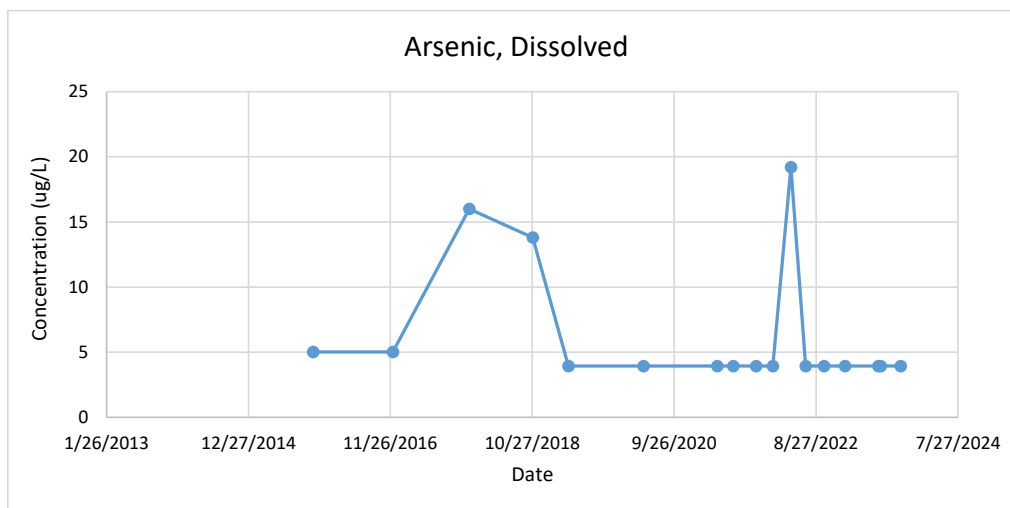


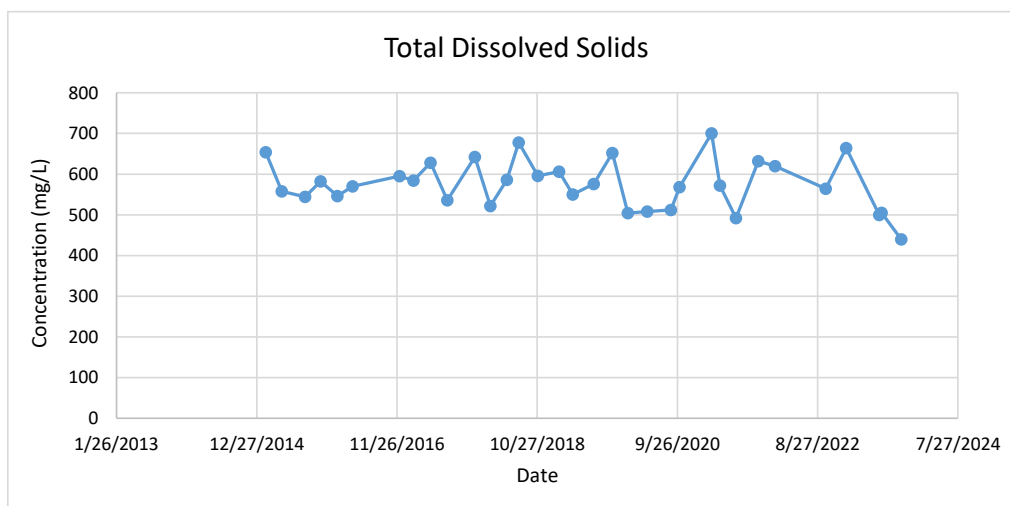
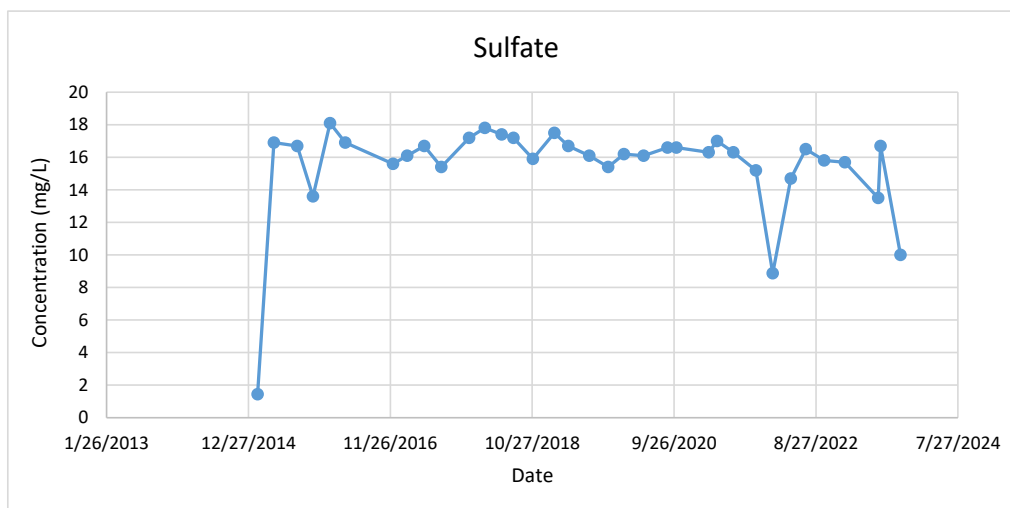
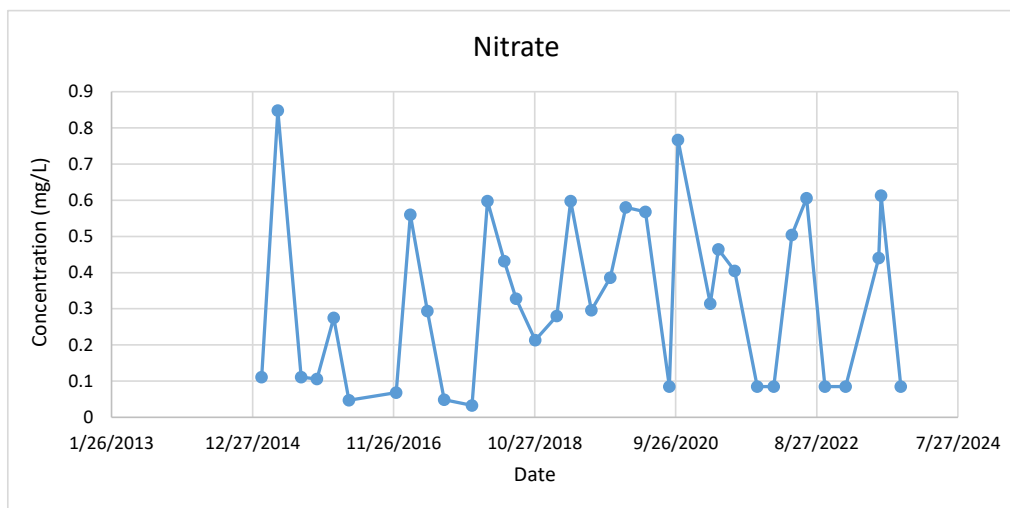


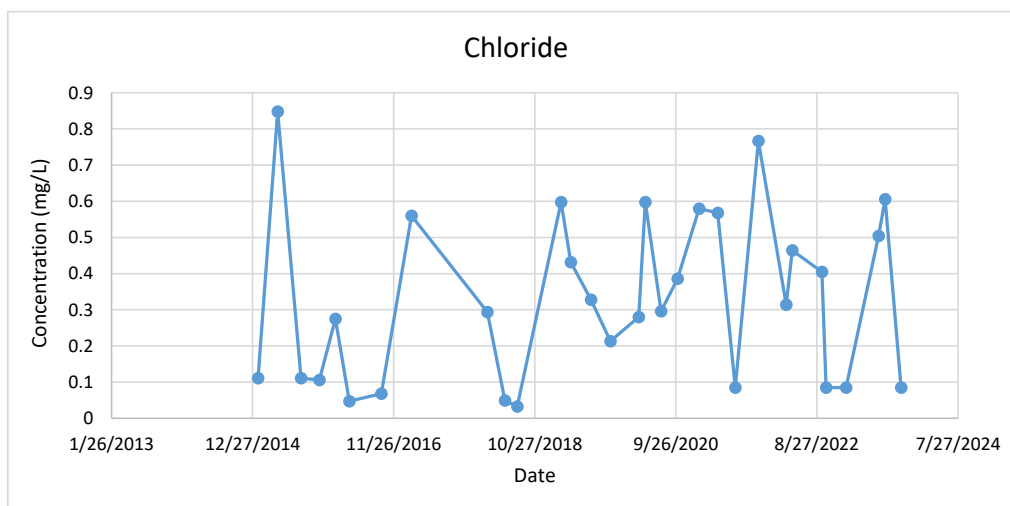
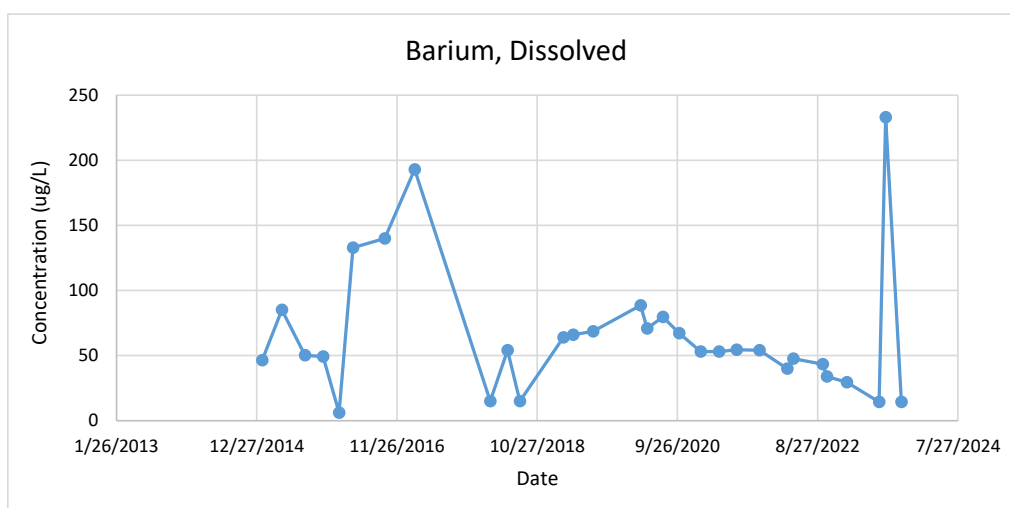
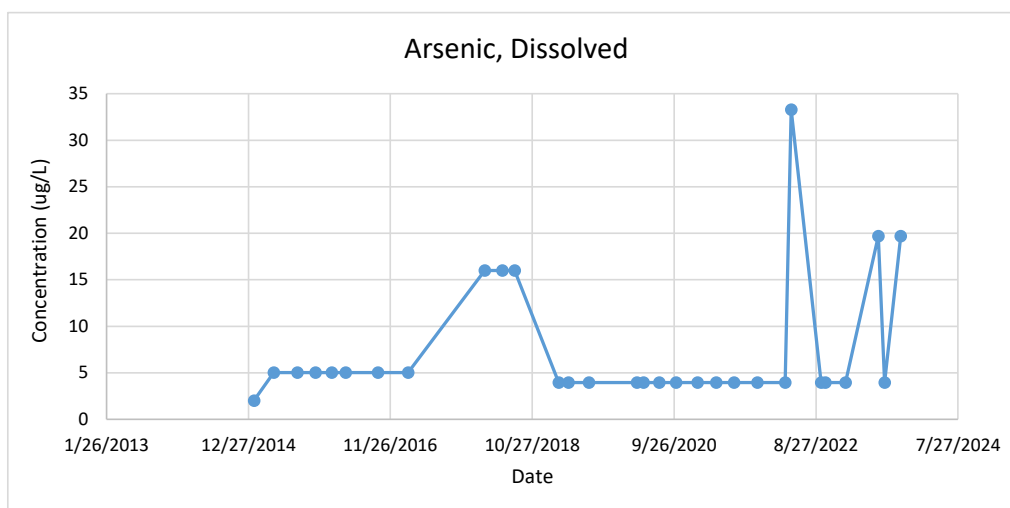


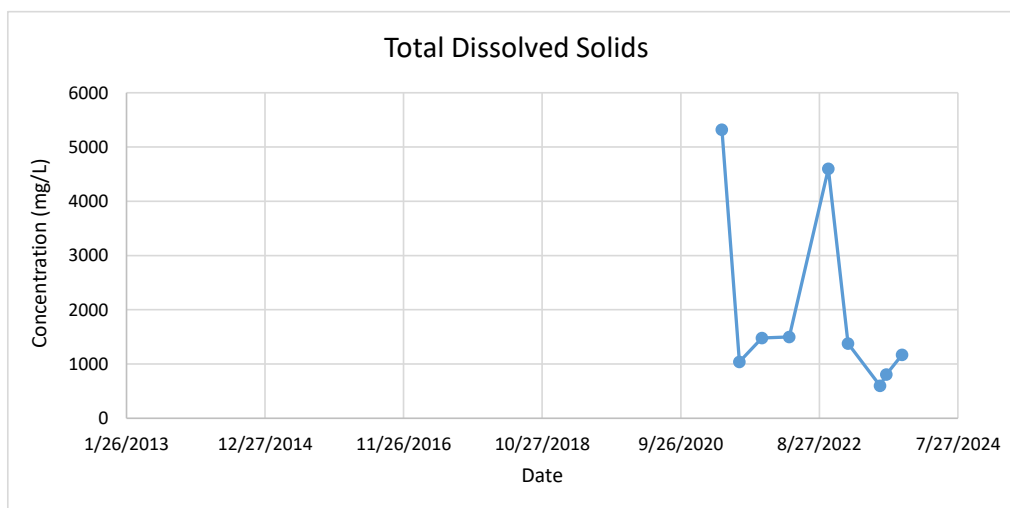
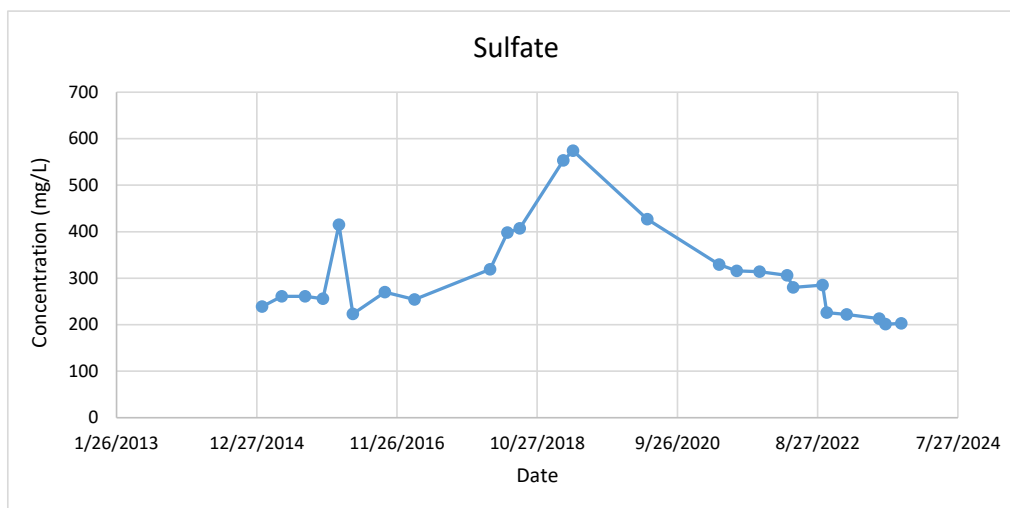
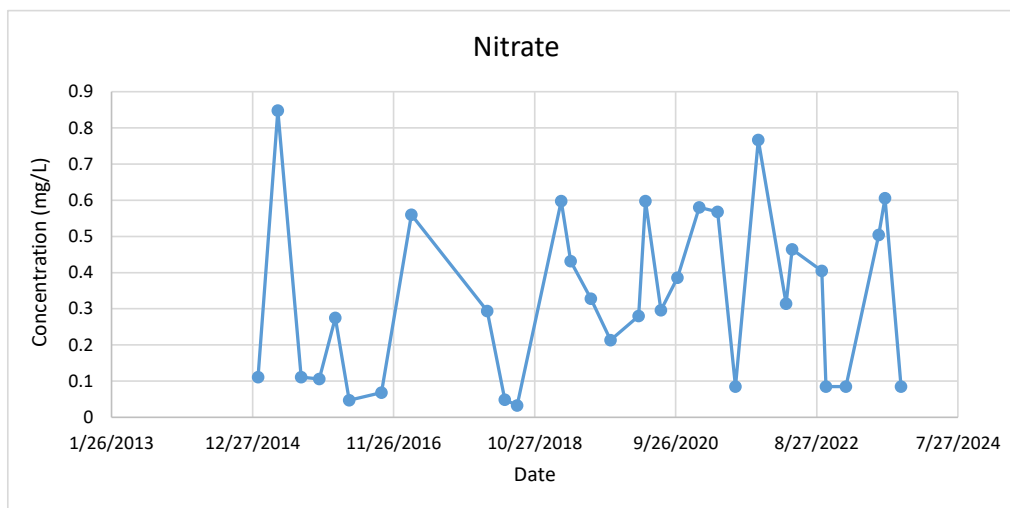












APPENDIX B

TABULATED DATA

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
1Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			MW-701-LS	MW-702-LS	MW-704-LS	MW-702-PC	MW-704-PC	PC-1	PC-2	PC-3	PC-5	PC-7	PC-8	PC-9	RC-1	
DATE COLLECTED:			01/17/2023	01/17/2023	01/19/2023	01/16/2023		01/16/2023	01/16/2023	01/17/2023			01/18/2023	01/18/2023	03/27/2023	
TIME COLLECTED:			09:30:00	09:15:00	09:10:00	14:20:00		14:00:00	13:20:00	09:10:00			09:10:00	09:15:00	14:00:00	
Parameters	Units	Method														
Dissolved Metals																
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	8.68	X	8.39	X	<	3.94	X	<	3.94	X	10.6	X	--	
Barium, Dissolved	ug/l	EPA 200.7/4.4	483	X	242	X		102	X	<	2.9	X	--		--	
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	24
Calcium, Dissolved	mg/l	EPA 200.7/4.4	5.08	X	2.94	X		8.42	X	68.7	T X	--	1070	T X	--	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	<	1.99	X	<	1.99	X	<	1.99	X	--	30.7	X	--	
Copper, Dissolved	ug/l	EPA 200.7/4.4	<	3.86	X	<	3.86	X	<	3.86	X	--	261	X	--	
Iron, Dissolved	ug/l	EPA 200.7/4.4	<	185	X	<	185	X		9020	T X	--	4050	T X	--	
Lead, Dissolved	ug/l	EPA 200.7/4.4	<	0.172	X	0.604	X	<	0.172	X	1.46	X	--		--	
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	1.97	X	0.956	X		1.98	X	25.7	T X	--	105	T X	--	
Manganese, Dissolved	ug/l	EPA 200.7/4.4	<	12.4	X	<	12.4	X		59.1	X	--	1960	X	--	
Mercury, Dissolved	ug/l	EPA 245.1/3.0	<	0.104	X	<	0.104	X	<	0.104	X	--	199	X	--	
Nickel, Dissolved	ug/l	EPA 200.7/4.4	<	5.6	X	<	5.6	X		104	X	--	519	X	--	
Potassium, Dissolved	mg/l	EPA 200.7/4.4	1.17	X	1.34	X		1.31	X	1.34	X	--	26.2	X	--	
Selenium, Dissolved	ug/l	EPA 200.7/4.4	<	5.55	X	<	5.55	X	<	5.55	X	--	5.55	X	--	
Sodium, Dissolved	mg/l	EPA 200.7/4.4	236	T X	322	T X		280	T X	15.6	X	--	334	T X	--	
Silver, Dissolved	ug/l	EPA 200.7/4.4	<	2.9	X	<	2.9	X	<	2.9	X	--	9.48	X	--	
Zinc, Dissolved	ug/l	EPA 200.7/4.4	<	10.1	X	<	10.1	X		95.1	X	--	200	X	--	
Total Metals																
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry																
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	520		545			524	<	9.24			296		103	432
Ammonia	mg/l	ASTM D6919-09	0.154		0.326			0.263		0.563			1.883		0.57	7.567
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	494		545			524	<	9.24			296		103	432
Chemical Oxygen Demand	mg/l	EPA 410.4	<	15				15	<	15			164		15	56.3
Chloride	mg/l	EPA 300.0/2.1	2.91		63.3			47.8		20.5			412		4.96	2150
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/l	EPA 300.0/2.1	3.97		5.66			3.33	<	0.099			0.099		0.099	0.099
Nitrate	mg/l	EPA 300.0/2.1	1.275	J	0.085			0.085	<	0.085			5.337		0.665	61.77
pH	pH Units	SM 4500-H11	8.56		8.31			8.1		3.35			2.94		3.28	
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	SM 2510B-11	980		1460			1180		873			8750		910	3060
Sulfate	mg/l	EPA 300.0/2.1	7.64		111			44.2		332			670		265	1340
Total Dissolved Solids	mg/l	SM 2540C-11	668		740			650		420			5920		324	2140
Total Organic Carbon	mg/l	SM 5310 C-11	0.532	K	1.15			1.49		0.561			558		558	2140
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	0.0102	C1	0.0281	C1		0.0126	C1	0.035	C1		1.84		1.51	1.64
Turbidity	NTU	SM 2130 B-11	174		21.7			29		3.92			0.0037	C1	0.0037	0.0244
Organics																
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (total)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) (Tables 1 and 2) unless otherwise noted.
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L. MSCs are the August 27, 2016 revised values.
2. MSC based on secondary contaminant limits based on cosmetic or aesthetic effects in drinking water.
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
1Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			PW-2	PW-3	Gardner (Jones)	Kiselich	Reinstadler	MD-A	MD-B	S-A	S-B	S-C	
DATE COLLECTED:			03/27/2023	03/27/2023		01/18/2023	01/18/2023			01/13/2023	01/13/2023	01/13/2023	
TIME COLLECTED:			14:45:00	14:55:00		15:30:00	15:15:00			15:15:00	15:25:00	13:00:00	
Parameters	Units	Method											
Dissolved Metals													
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 3.94 X	< 3.94 X	--	--	< 3.94 X	< 3.94 X	< 3.94 X	<
Barium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	28.4 X	27.1 X	--	--	60.8 X	38.7 X	30.5 X	
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.6 X	< 1.6 X	--	--	< 1.6 X	< 1.6 X	< 1.6 X	<
Calcium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	12.7 X	40.7 T X	--	--	60 1 T X	164 T X	134 T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.99 X	< 1.99 X	--	--	< 1.99 X	< 1.99 X	< 1.99 X	<
Copper, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	72.8 X	40.6 X	--	--	< 3.86 X	< 3.86 X	< 3.86 X	<
Iron, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 185 X	< 185 X	--	--	< 185 X	< 185 X	< 185 X	<
Lead, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 0.172 X	< 0.172 K X	--	--	1.94 X	1.82 X	0.695 X	
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	3.09 X	5.39 X	--	--	21.5 T X	35.7 T X	25.7 T X	
Manganese, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 12.4 X	30.9 X	--	--	< 12.4 X	< 12.4 X	< 12.4 X	<
Mercury, Dissolved	ug/l	EPA 245.1/3.0	--	--	--	< 0.104 X	< 0.104 X	--	--	< 0.104 X	< 0.104 X	< 0.104 X	<
Nickel, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.6 X	< 5.6 X	--	--	< 5.6 X	< 5.6 X	< 5.6 X	<
Potassium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	1.19 X	0.972 X	--	--	1.99 X	2.74 X	4.46 X	
Selenium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.55 X	< 5.55 X	--	--	< 5.55 X	< 5.55 X	< 5.55 X	<
Sodium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	14.2 X	166 X T	--	--	8.76 X	13.7 X	34.6 X	
Silver, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 2.9 X	< 2.9 X	--	--	< 2.9 X	< 2.9 G X	< 2.9 X	<
Zinc, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 10.1 X	54.5 X	--	--	43.2 X	< 10.1 X	< 10.1 X	<
Total Metals													
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
General Chemistry													
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	--	--	--	831	< 9.24	--	--	183	239	229	
Ammonia	mg/l	ASTM D6919-09	--	--	--	0.483	0.119	--	--	0.114	< 0.0475	< 0.0475	<
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	--	--	--	797	< 9.24	--	--	183	239	229	
Chemical Oxygen Demand	mg/l	EPA 410.4	--	--	--	< 15	< 15	--	--	15.9	15.9	20.5	
Chloride	mg/l	EPA 300.0/2.1	3.52	< 0.136	--	21.1	12.5	--	--	10.9	8.05	23.7	
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	
Fluoride	mg/l	EPA 300.0/2.1	--	--	--	< 0.099	< 0.099	--	--	< 0.099	< 0.099	< 0.099	<
Nitrate	mg/l	EPA 300.0/2.1	< 0.085	< 0.085	--	1.191 J	0.522 J	--	--	1.176 J	0.941 J	0.926 J	
pH	pH Units	SM 4500-H11	7.05	7.67	--	8.5	7.29	--	--	8.2	8.3	8.26	
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	
Specific Conductance	umhos/cm	SM 2510B-11	557	233	--	1590	255	--	--	464	971	880	
Sulfate	mg/l	EPA 300.0/2.1	--	--	--	20	114	--	--	59.8	315	233	
Total Dissolved Solids	mg/l	SM 2540C-11	--	--	--	106	458	--	--	264	648	535	
Total Organic Carbon	mg/l	SM 5310 C-11	--	--	--	1	< 0.258	--	--	3.48	4.56	5.29	
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	--	--	--	0.0279 C1	< 0.0037 C1	--	--	< 0.0037 C1	< 0.0037 C1	0.0342 C1	<
Turbidity	NTU	SM 2130 B-11	--	--	--	< 0.0101	1.64	--	--	25.6	2.78	3.16	
Organics													
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Benzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Ethylbenzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Methylene chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Naphthalene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Toluene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Trichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Xylenes (total)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the i
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.

Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
1Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			S-D	S-E		S-F		S-H		Impoundment 3 Seep		Impoundment 5 Blanket Drain		Impoundment 5 Bench Drain		Landfill 6 Blanket Drain		Landfill 6 LDZ		Landfill 6 LCS		Township Road Drain		Township Road Drain Tank		North Toe Tank		East Toe Tank		South Toe Tank															
DATE COLLECTED:			01/13/2023		01/13/2023		01/13/2023		01/13/2023		01/13/2023		01/13/2023		01/19/2023		01/17/2023		01/17/2023		01/17/2023		01/16/2023		01/13/2023		01/13/2023		01/17/2023																
TIME COLLECTED:			12:30:00		12:25:00		13:10:00		12:00:00		14:40:00		13:45:00		13:35:00		11:30:00		11:10:00		11:20:00		09:30:00		13:20:00		13:55:00		12:10:00		14:45:00														
Parameters		Units	Method																																										
Dissolved Metals																																													
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	106	X	334	X	39.6	X	<	3.94	X	<	3.94	X	<	3.94	X											
Barium, Dissolved	ug/l	EPA 200.7/4.4	54.8	X		47.3	X		51.5	X	<	2.9	X	<	2.9	X	<	2.9	X	22.6	X	516	X	38.6	X		20.8	X		21.5	X		22.7	X	<	2.9	X								
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	32	X	7.99	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X						
Calcium, Dissolved	mg/l	EPA 200.7/4.4	92.9	T X		89.9	T X		134	T X		16.8	X		239	T X		676	T X	126	T X	335	T X	561	T X	11000	T X	1950	T X	64.7	T X	133	T X	192	I T X	338	T X								
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	39.8	X	13.7	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X						
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	14.7	X	<	3.86	X	<	3.86	X	18.5	X	441	X	44.8	X	<	3.86	X	<	3.86	X	<	3.86	X					
Iron, Dissolved	ug/l	EPA 200.7/4.4	185	X	<	185	X	<	185	X	356	X	<	185	X	<	185	X	<	185	X	<	185	X	<	3700	X	12000	T X	<	185	X	<	185	X	<	185	X	<	185	X				
Lead, Dissolved	ug/l	EPA 200.7/4.4	1.67	X		1.18	X	<	0.172	X	0.51	X	<	0.172	X	<	0.172	X	<	0.172	X	<	0.172	X	<	1.72	X	3.38	X	<	0.172	X	<	0.172	X	<	0.172	X	<	0.172	K X				
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	26.4	T X		24.6	T X		29.8	T X		3.96	X		44.9	T X		101	T X	12.9	X	238	X	276	X	<	1.16	X	59.4	T X	12.4	X	20.6	T X	42.5	T X	96.8	T X							
Manganese, Dissolved	ug/l	EPA 200.7/4.4	12.4	X	<	12.4	X	<	12.4	X	<	12.4	X	<	12.4	X	549	X	<	12.4	X	<	12.4	X	32700	X	<	248	X	23000	T X	<	12.4	X	29.2	X	1870	X	360	X					
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X	<	0.104	X					
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	384	X	<	112	X	389	X	<	5.6	X	<	5.6	X	<	5.6	X	65	X	<	5.6	X					
Potassium, Dissolved	mg/l	EPA 200.7/4.4	2.36	X		2.95	X		1.29	X		5.77	X		5.79	X		29.8	X	7.48	X	19.7	X	263	X	1990	T X	138	X T	4.76	X	5.58	X	10.3	X	5.47	X								
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	39.4	X	<	111	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X					
Sodium, Dissolved	mg/l	EPA 200.7/4.4	12.4	X		13.2	X		1.41	X		11.3	X		83	T X		48	T X	3.01	X	306	T X	3460	T X	1240	T X	351	T X	11	X	46.7	T X	71.7	T X	16.5	X								
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	8.67	X	83.1	X	20.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X				
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	202	X	830	X	<	10.1	X	<	10.1	X	<	10.1	X	151	X	<	10.1	X				
Total Metals																																													
Arsenic, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Barium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Cadmium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Calcium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Chromium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Copper, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Iron, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Lead, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Magnesium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Manganese, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Mercury, Total	ug/l	EPA 245.1/3.0	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Nickel, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Potassium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Selenium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Sodium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Silver, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
Zinc, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		--		--		--		--			--			--			--			--							
General Chemistry																																													
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	195			166			232			32.4			301			239			152			621			857		<	9.24			86.1			161			97.2			332			
Ammonia	mg/l	ASTM D6919-09	0.0475		<	0.0475		<	0.0475		<	0.2375		<	0.0475		<	0.0475		<	0.0475		<	124.4	R	596.4		126.2		<	0.0475		<	0.0475		<	0.0475		<	0.0475			1.362		
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	195			166			232			32.4			301			239			152			621			9.24		<	9.24			86.1			161			97.2			332			
Chemical Oxygen Demand	mg/l	EPA 410.4	15.9		<	15			18.2			31.9			22.8			25.1			18.2			308			1950		171	K	<	15		<	15		<	15		<	15			47.8	
Chloride	mg/l	EPA 300.0/2.1	11.9			13.4		<	0.136			22.9			59.4			549			9.44			369																					

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the I
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
2Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			MW-701-LS		MW-702-LS		MW-704-LS		MW-702-PC		MW-704-PC		PC-1		PC-2		PC-3		PC-5		PC-7		PC-8		PC-9		RC-1							
DATE COLLECTED:			06/30/2023		05/10/2023		06/30/2023		05/10/2023				04/21/2023		06/29/2023		06/30/2023						06/30/2023		05/11/2023		05/12/2023							
TIME COLLECTED:			09:15:00		14:45:00		15:15:00		14:25:00				10:30:00		14:00:00		09:30:00						09:50:00		12:30:00		10:30:00							
Parameters		Units	Method																															
Dissolved Metals																																		
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	<	3.94	X	<	3.94	X	--	<	3.94	X	--	<	3.94	X	<	3.94	X	--	--	<	3.94	X	<	3.94	X	<	9.76	X	<			
Barium, Dissolved	ug/l	EPA 200.7/4.4		943	X		106	X	--	<	2.9	X	--	<	2.9	X	<	2.9	X	--	--		146	X	<	2.9	X	<	2.9	X	<			
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	<	1.6	X	<	1.6	X	--	<	1.6	X	--	<	1.6	X	<	1.6	X		8.67	X	--	--	<	1.6	X	<	1.6	X	<			
Calcium, Dissolved	mg/l	EPA 200.7/4.4		10.7	X		13	X	--		73.2	T X	--		140	T X		72.4	X T		979	X T	--	--		177	T X		141	T X		476	T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	<	1.99	X	<	1.99	X	--	<	1.99	X	--		8.96	X	<	1.99	X		23.5	X	--	--	<	1.99	X	<	1.99	X	<	1.99	X	<
Copper, Dissolved	ug/l	EPA 200.7/4.4	<	3.86	X	<	3.86	X	--		25.3	X	--		57.1	X		16.1	X		196	X	--	--	<	3.86	X	<	3.86	X	<	3.86	X	<
Iron, Dissolved	ug/l	EPA 200.7/4.4	<	185	X	<	185	X	--		14300	T X	--		7890	T X		6660	T X		7950	T X	--	--	<	185	X	<	185	X	<	185	X	<
Lead, Dissolved	ug/l	EPA 200.7/4.4	<	0.172	X	<	0.172	X	--		1.33	X	--		13	X		6.76	X		33.4	X	--	--	<	0.172	X	<	0.172	X	<	0.172	X	<
Magnesium, Dissolved	mg/l	EPA 200.7/4.4		3.7	X		4	X	--		22.4	T X	--		32.7	T X		18.8	X		93.9	T X	--	--		28.5	X T		39.1	T X		101	T X	
Manganese, Dissolved	ug/l	EPA 200.7/4.4	<	12.4	X		299	X	--		1560	X	--		1580	X		1010	X		9230	T X	--	--		296	X		43.5	X		781	X	
Mercury, Dissolved	ug/l	EPA 245.1/3.0	<	0.0932	X	<	0.0932	X	--	<	0.0932	X	--	<	0.0932	X	<	0.0932	X	<	0.0932	X	--	--	<	0.0932	X	<	0.0932	X	<	0.0932	X	<
Nickel, Dissolved	ug/l	EPA 200.7/4.4	<	5.6	X	<	5.6	X	--		101	X	--		157	X		74.6	X		478	X	--	--	<	5.6	X	<	5.6	X	<	5.6	X	<
Potassium, Dissolved	mg/l	EPA 200.7/4.4		1.69	X		1.21	X	--		1.34	X	--		4.37	X		2.35	X		23.7	X	--	--		6.92	X		4.09	X		11.2	X	
Selenium, Dissolved	ug/l	EPA 200.7/4.4	<	5.55	X	<	5.55	X	--	<	5.55	X	--	<	5.55	X	<	5.55	X	<	5.55	X	--	--	<	5.55	X	<	5.55	X	<	5.55	X	<
Sodium, Dissolved	mg/l	EPA 200.7/4.4		202	T X		245	T X	--		28.4	X	--		71.7	T X		5.8	X		252	T X	--	--		49.2	T X		48.7	T X		107	T X	
Silver, Dissolved	ug/l	EPA 200.7/4.4	<	2.9	X	<	2.9	X	--	<	2.9	T X	--	<	2.9	X	<	2.9	X	<	2.9	X	--	--	<	2.9	X	<	2.9	X	<	2.9	X	<
Zinc, Dissolved	ug/l	EPA 200.7/4.4	<	10.1	X	<	10.1	X	--		236	X	--		405	X		145	X		875	X	--	--		42.2	X	<	10.1	X	<	10.1	X	<
Total Metals																																		
Arsenic, Total	ug/l	EPA 200.7/4.4	<	3.94		<	3.94		--	<	3.94		--	<	3.94		<	3.94		<	3.94		--	--	<	3.94		<	3.94			11		<
Barium, Total	ug/l	EPA 200.7/4.4		996			129		--	<	2.9		--	<	2.9		<	2.9			81.3		--	--		1330	I		26.1			23.5		
Cadmium, Total	ug/l	EPA 200.7/4.4	<	1.6		<	1.6		--	<	1.6		--	<	1.6		<	1.6			6.74		--	--	<	1.6		<	1.6		<	1.6		<
Calcium, Total	mg/l	EPA 200.7/4.4		11.2			13.8		--		68.5	T	--		145	T		72	T		814	T	--	--		158	H T		147	T		480	T	
Chromium, Total	ug/l	EPA 200.7/4.4	<	1.99		<	1.99		--	<	1.99		--		9.04			6.14			26.7		--	--		7.1		<	1.99		<	1.99		<
Copper, Total	ug/l	EPA 200.7/4.4	<	3.86		<	3.86		--		24.8		--		59.6			21.8			185		--	--		17.7		<	3.86		<	3.86		<
Iron, Total	ug/l	EPA 200.7/4.4		580			4510	H T	--		16600	T	--		9360	T		10800	T		9680	T	--	--		16900	T		2310			2250		
Lead, Total	ug/l	EPA 200.7/4.4		1.44			2.44		--		1.1		--		16			14.8			15.7		--	--		21.4			2.6			11.1		
Magnesium, Total	mg/l	EPA 200.7/4.4		3.82			4.1		--		20.3	T	--		33.9	T		19.1			84.1	T	--	--		23	T		41	T		102	T	
Manganese, Total	ug/l	EPA 200.7/4.4		28.6			314		--		1500		--		1600			1060			8070	T	--	--		798			57.6			882		
Mercury, Total	ug/l	EPA 245.1/3.0	<	0.0932			0.111		--		0.108		--	<	0.0932		<	0.0932		<	0.0932		--	--	<	0.0932		<	0.0932		<	0.0932		<
Nickel, Total	ug/l	EPA 200.7/4.4	<	5.6		<	5.6		--		95.5		--		160			80.9			471		--	--	<	5.6		<	5.6		<	5.6		<
Potassium, Total	mg/l	EPA 200.7/4.4		1.73			1.36		--		1.39		--		4.4			2.52			21.8		--	--		7.93			4.61			9.94		
Selenium, Total	ug/l	EPA 200.7/4.4	<	5.55		<	5.55		--	<	5.55		--	<	5.55		<	5.55		<	5.55		--	--	<	5.55		<	5.55		<	5.55		<
Sodium, Total	mg/l	EPA 200.7/4.4		190	T		253	H T	--		26.1		--		72.9	T		7.59			223	T	--	--		39.4			49.9	T		108	T	
Silver, Total	ug/l	EPA 200.7/4.4	<	2.9		<	2.9		--	<	2.9		--	<	2.9		<	2.9		<	2.9		--	--	<	2.9		<	2.9		<	2.9		<
Zinc, Total	ug/l	EPA 200.7/4.4	<	10.1			44.4		--		205		--		391			157			784		--	--		125			20.2			21		<
General Chemistry																																		
Alkalinity, Total	mg CaCO3/L	SM 2320B-11		491			400		--	<	9.24		--	<	9.24		<	9.24		<	9.24		--	--		205			89.9			400		
Ammonia	mg/l	ASTM D6919-09		0.142		<	0.0475		--		0.717		--		1.502			0.302			22.1		--	--	<	0.0475		<	0.0475			3.951		A1
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B		491			400		--	<	9.24		--	<	9.24		<	9.24		<	9.24		--	--		205			89.9			400		
Chemical Oxygen Demand	mg/l	EPA 410.4	<	15			18		--		18		--		20.3			31.5			297		--	--		182			20.3			60.8		
Chloride	mg/l	EPA 300.0/2.1		2.26			55.6		--		55.3		--		150			3.36			1760		--	--		109			96.2			538		
Cyanide, Total	ug/l	SM 4500 CN C11	<	6		<	6		<	6		--	--	<	6			12			6		--	--	<	6		<	6		<	6		<
Fluoride	mg/l	EPA 300.0/2.1		3.79			4.66		--	<	0.099		--	<	0.05		<	0.099		<	0.099		--	--	<	0.099		<	0.099		<	0.099		<
Nitrate	mg/l	EPA 300.0/2.1		0.789	J	<	0.085		--		0.631	J	--		2.862			0.633	J		44.18		--	--		1.458	J		1.222	J		2.37		<
pH	pH Units	SM 4500-H11		8.02			7.88		--		3.43		--		3.03			3			3.63		--	--		7.08			6.48			7.18		
Phenolics	--	EPA 420.1		0.211			0.024		--		0.65																							

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
2Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			RC-2	RC-5	RC-6A	SP-2	SP-3	W-2	W-4	W-5	W-6	W-8	W-9	W-10	W-11	W-12	W-13	PW-1														
DATE COLLECTED:			05/12/2023		06/30/2023	06/30/2023	05/12/2023	05/10/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023	06/30/2023	06/30/2023	06/30/2023	06/30/2023	06/30/2023	04/21/2023														
TIME COLLECTED:			10:00:00		12:00:00	13:45:00	13:00:00	13:00:00	11:00:00	09:15:00	10:15:00	11:45:00	11:00:00	13:35:00	14:00:00	14:10:00	15:30:00	11:00:00														
Parameters	Units	Method																														
Dissolved Metals																																
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	3.94	X	--	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 19.7	X	--												
Barium, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	--	132	X	< 2.9	X	< 2.9	X	278	X	41.1	X	126	X	80.8	X	< 2.9	X	44.6	X	< 14.5	X	--						
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	--	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 8	X	--						
Calcium, Dissolved	mg/l	EPA 200.7/4.4	109	T X	--	1.91	X	99.5	T X	390	T X	106	T X	5.59	X	2.49	X	10.9	X	111	T X	88.9	T X	1.9	X	4.14	X	4.25	X	6.33	X	--
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	--	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 9.95	X	--		
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	--	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 19.3	X	--		
Iron, Dissolved	ug/l	EPA 200.7/4.4	15000	T X	--	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 185	X	< 925	X	--		
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	--	< 0.172	X	< 0.172	X	< 0.172	K X	< 0.172	X	< 0.172	X	< 0.172	X	< 0.172	X	< 0.172	X	0.571	X	0.544	X	0.845	X	< 0.172	X	--		
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	27.9	T X	--	0.435	X	32.1	T X	157	X	37.4	T X	1.53	X	0.57	X	3.13	X	34.5	T X	9.36	X	0.518	X	0.681	X	0.577	X	1.17	X	--
Manganese, Dissolved	ug/l	EPA 200.7/4.4	554	X	--	< 12.4	X	< 12.4	X	5700	X T	232	X	< 12.4	X	< 12.4	X	< 12.4	X	< 12.4	X	130	X	< 12.4	X	< 12.4	X	< 12.4	X	105	X	--
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	--	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	--
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	--	< 5.6	X	< 5.6	X	88	X	< 5.6	X	< 5.6	X	< 5.6	X	< 5.6	X	< 5.6	X	< 5.6	X	< 5.6	X	< 5.6	X	< 28	X	--		
Potassium, Dissolved	mg/l	EPA 200.7/4.4	8.1	X	--	1.83	X	4.19	X	36.2	X	8.18	X	4.88	X	1.7	X	2.2	X	6.42	X	1.43	X	0.656	X	0.717	X	0.858	X	2.54	X	--
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	--	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 27.8	X	--
Sodium, Dissolved	mg/l	EPA 200.7/4.4	470	T X	--	378	T X	16.7	X	495	T X	20.7	X	314	T X	411	T X	278	T X	59.5	T X	3.8	X	540	T X	185	T X	282	T X	540	T X	--
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	--	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 2.9	X	< 14.5	X	--
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	--	< 10.1	X	< 10.1	X	102	X	< 10.1	X	< 10.1	X	58.4	X	< 10.1	X	< 10.1	X	< 10.1	X	< 10.1	X	< 10.1	X	< 10.1	X	< 50.5	X	--
Total Metals																																
Arsenic, Total	ug/l	EPA 200.7/4.4	3.94		--	< 3.94		< 3.94	K	10.2		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		< 3.94		--
Barium, Total	ug/l	EPA 200.7/4.4	252		--	141		102		52.6		34.4		318		39.9		52.3		94.1		82.8		49.6		87.3		75.1		75.1		--
Cadmium, Total	ug/l	EPA 200.7/4.4	1.6		--	< 1.6		< 1.6		4.23		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		< 1.6		--
Calcium, Total	mg/l	EPA 200.7/4.4	131	T	--	2.08		115	1 T	411	T	110	T	6.91		12.6		124	T	92.5	T	2.3		4.36		7.37		6.22		6.22		--
Chromium, Total	ug/l	EPA 200.7/4.4	1.99		--	< 1.99		17.4	K	8.05		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		< 1.99		--
Copper, Total	ug/l	EPA 200.7/4.4	3.86		--	< 3.86		26.3	K	< 3.86		< 3.86		14.2		< 3.86		11.8		< 3.86		< 3.86		< 3.86		< 3.86		16.1		16.2		--
Iron, Total	ug/l	EPA 200.7/4.4	49600	T	--	< 185		25600	1 K T	6740	T	270		1030		820		3540		2100		596		< 185		2310		1410		2470		--
Lead, Total	ug/l	EPA 200.7/4.4	1.26		--	< 0.172		90		6.73		1.98		47.3		< 0.172		12.9		4.58		14.2		1.89		3.87		23.2		6.59		--
Magnesium, Total	mg/l	EPA 200.7/4.4	31.4	T	--	0.485		38.9	1 T	161		38.3	T	1.55		0.578		3.49		37.2	T	9.47		0.521		0.702		0.674		1.42		--
Manganese, Total	ug/l	EPA 200.7/4.4	675		--	< 12.4		2090	K T	6020	T	756		34		< 12.4		42.2		217		208		< 12.4		< 12.4		22.5		119		--
Mercury, Total	ug/l	EPA 245.1/3.0	0.0932		--	< 0.0932		< 0.932		< 0.0932		< 0.101		< 0.0932		< 0.0932		< 0.0932		< 0.0932		< 0.0932		< 0.0932		< 0.0932		< 0.0932		< 0.0932		--
Nickel, Total	ug/l	EPA 200.7/4.4	5.6		--	< 5.6		5.6		116		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		< 5.6		--
Potassium, Total	mg/l	EPA 200.7/4.4	8.81		--	1.77		5.52		39.7		8.43		3.21		1.97		2.13		5.48		1.33		0.556		0.555		0.761		2.94		--
Selenium, Total	ug/l	EPA 200.7/4.4	5.55		--	< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		< 5.55		--
Sodium, Total	mg/l	EPA 200.7/4.4	476	T	--	370	T	17.2		509	T	22.2		345	T	414	T	711	T	61.9	T	4.06		260	T	178	T	272	T	546	T	--
Silver, Total	ug/l	EPA 200.7/4.4	2.9		--	< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		< 2.9		--
Zinc, Total	ug/l	EPA 200.7/4.4	10.1		--	< 10.1		113	K	188		< 10.1		61.7		< 10.1		435		< 10.1		< 10.1		< 10.1		< 10.1		76		75.9		--
General Chemistry																																
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	249		--	853		134		135		302		712		904		866		357		229		551		361		633		792		--
Ammonia	mg/l	ASTM D6919-09	3.91	A1	--	0.175		< 0.0475		< 0.0475	A1	0.197		0.429	A1	< 0.0475	A1	1.087	A1	< 0.0475	A1	< 0.0475		0.193		0.592		0.484		0.125		--
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	249		--	827		134		135		302		712		866		357		229		469		306		621		792		792		--
Chemical Oxygen Demand	mg/l	EPA 410.4	101		--	< 15		< 15		282		< 15																				

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the 1
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"use" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
2Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			PW-2	PW-3	Gardner (Jones)	Kiselich	Reinstadler	MD-A	MD-B	S-A	S-B	S-C	
DATE COLLECTED:			04/21/2023	04/21/2023		06/30/2023	06/30/2023			06/29/2023	06/29/2023	04/21/2023	
TIME COLLECTED:			11:45:00	10:15:00		10:50:00	11:00:00			11:30:00	11:50:00	11:30:00	
Parameters	Units	Method											
Dissolved Metals													
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 3.94 X	< 3.94 X	--	--	< 3.94 X	< 3.94 X	< 3.94 X	<
Barium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	35.9 X	< 2.9 X	--	--	79.6 X	66.5 X	40.4 X	<
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.6 X	< 1.6 X	--	--	< 1.6 X	< 1.6 X	< 1.6 X	<
Calcium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	17.2 X	30.5 T X	--	--	67.5 T X	85.9 T X	268 T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.99 X	< 1.99 X	--	--	< 1.99 X	< 1.99 X	< 1.99 X	<
Copper, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	43.8 X	< 3.86 X	--	--	< 3.86 X	< 3.86 X	< 3.86 X	<
Iron, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 185 X	< 185 X	--	--	< 185 X	< 185 X	< 185 X	<
Lead, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	2.38 C	< 0.172 X	--	--	< 0.172 X	0.814 X	< 0.172 X	<
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	4.39 X	4.2 X	--	--	36.3 T X	38.3 T X	50.1 T X	
Manganese, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 12.4 X	< 12.4 X	--	--	< 12.4 X	95.1 X	< 12.4 X	<
Mercury, Dissolved	ug/l	EPA 245.1/3.0	--	--	--	< 0.0932 X	< 0.0932 X	--	--	< 0.0932 X	< 0.0932 X	< 0.0932 X	<
Nickel, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.6 X	< 5.6 X	--	--	< 5.6 X	< 5.6 X	< 5.6 X	<
Potassium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	1.28 X	0.726 X	--	--	2.07 X	2.4 X	6.24 X	
Selenium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.55 X	< 5.55 X	--	--	< 5.55 X	< 5.55 X	< 5.55 X	<
Sodium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	14.1 X	164 T X	--	--	14.7 X	16.8 X	90.6 T X	
Silver, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 2.9 X	< 2.9 X	--	--	< 2.9 1X	< 2.9 X	< 2.9 X	<
Zinc, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 10.1 X	26.7 X	--	--	< 10.1 X	< 10.1 X	< 10.1 X	<
Total Metals													
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	< 3.94	< 3.94	--	--	< 3.94	15.6	< 3.94	<
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	34.7	< 2.9	--	--	123	450	47.3	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	< 1.6	< 1.6	--	--	< 1.6	10.8	< 1.6	<
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	17.7	30.8 T	--	--	73.5 T	151 T	277 T	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	< 1.99	< 1.99	--	--	11.1	171	< 1.99	<
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	49.9	< 3.86	--	--	< 3.86	139	< 3.86	<
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	< 185	< 185	--	--	3760	25900 T	< 185	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	2.69	0.562	--	--	36.7	1420 T	4.71	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	4.41	4.24	--	--	40.9 T	45.9 T	51.5 T	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	< 12.4	< 12.4	--	--	222	6410 T	< 12.4	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	< 0.0932	< 0.0932	--	--	< 0.0932	< 0.466	< 0.0932	<
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	< 5.6	< 5.6	--	--	< 5.6	158	< 5.6	<
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	1.17	0.67	--	--	2.54	4.15	6.19	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	< 5.55	< 5.55	--	--	< 5.55	< 5.55	< 5.55	<
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	13.5	159 T	--	--	16.9	18.6	91.3 T	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	< 2.9	< 2.9	--	--	< 2.9	< 2.9	4.13	<
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	< 10.1	79.9	--	--	57.7	763	< 10.1	<
General Chemistry													
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	--	--	--	26.5	349	--	--	229	265	243	
Ammonia	mg/l	ASTM D6919-09	--	--	--	0.714	< 0.0475	--	--	< 0.0475	< 0.0475	< 0.0475	<
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	--	--	--	26.5	349	--	--	229	265	243	
Chemical Oxygen Demand	mg/l	EPA 410.4	--	--	--	< 15	< 15	--	--	< 15	27	18	
Chloride	mg/l	EPA 300.0/2.1	57.2	< 0.068	--	22.1	13.7	--	--	26.9	27.2	97.4	
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	< 6	< 6	--	--	< 6	< 6	< 6	<
Fluoride	mg/l	EPA 300.0/2.1	--	--	--	< 0.099	< 0.099	--	--	< 0.099	< 0.099	1.52	<
Nitrate	mg/l	EPA 300.0/2.1	0.528 J	1.048	--	0.953 J	< 0.085	--	--	0.463 J	0.471 J	0.471 J	<
pH	pH Units	SM 4500-H11	7.06	7.49	--	7.1	8.2	--	--	7.76	7.67	7.86	
Phenolics	--	EPA 420.1	--	--	--	0.024	0.049	--	--	0.105	0.235	0.041	
Specific Conductance	umhos/cm	SM 2510B-11	1060	200	--	212	857	--	--	676	751	1820	
Sulfate	mg/l	EPA 300.0/2.1	--	--	--	31.8	90.2	--	--	102	112	650	
Total Dissolved Solids	mg/l	SM 2540C-11	--	--	--	< 45	330	--	--	270	180	1220	
Total Organic Carbon	mg/l	SM 5310 C-11	--	--	--	1.21	0.611 K	--	--	3.33	4.55	4.87	
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	--	--	--	0.177 C1	< 0.0037 C1	--	--	< 0.0037 C1	< 0.0037 C1	0.0215 C1a	<
Turbidity	NTU	SM 2130 B-11	--	--	--	1.18	1.49	--	--	43.1	1810	3.52	
Organics													
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	< 0.29	< 0.29	--	--	< 0.29	< 0.29	< 0.29	<
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	< 0.27	< 0.27	--	--	< 0.27	< 0.27	< 0.27	<
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	< 0.33	< 0.33 D	--	--	< 0.33 D	< 0.33 D	< 0.33	<
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	< 0.49	< 0.49	--	--	< 0.49	< 0.49	< 0.49	<
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	< 0.4	< 0.4	--	--	< 0.4	< 0.4	< 0.4	<
Benzene	ug/l	EPA 8260B	--	--	--	< 0.31	< 0.31	--	--	< 0.31	< 0.31	< 0.31	<
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	< 0.37	< 0.37	--	--	< 0.37	< 0.37	< 0.37	<
Ethylbenzene	ug/l	EPA 8260B	--	--	--	< 0.23	< 0.23	--	--	< 0.23	< 0.23	< 0.23	<
Methylene chloride	ug/l	EPA 8260B	--	--	--	< 0.43	< 0.43	--	--	< 0.43	< 0.43	< 0.43	<
Naphthalene	ug/l	EPA 8260B	--	--	--	< 0.55	< 0.55	--	--	< 0.55	< 0.55	< 0.55	<
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	< 0.46	< 0.46	--	--	< 0.46	< 0.46	< 0.46	<
Toluene	ug/l	EPA 8260B	--	--	--	< 0.21	< 0.21	--	--	< 0.21	0.21	0.21	*
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	0.4	0.4	--	--	0.4	0.4	0.4	*
Trichloroethene	ug/l	EPA 8260B	--	--	--	0.7	0.7	--	--	0.7	0.7	0.7	*
Vinyl chloride	ug/l	EPA 8260B	--	--	--	0.4	0.4	--	--	0.4	0.4	0.4	*
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Xylenes (total)	ug/l	EPA 8260B	--	--	--	0.76	0.76	--	--	0.76	0.76	0.76	*

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
2Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			S-D	S-E		S-F	S-H		Impoundment 3 Seep	Impoundment 5 Blanket Drain	Impoundment 5 Bench Drain	Landfill 6 Blanket Drain	Landfill 6 LDZ	Landfill 6 LCS	Township Road Drain	Township Road Drain Tank	North Toe Tank	East Toe Tank	South Toe Tank		
DATE COLLECTED:			06/29/2023	06/29/2023			06/29/2023		06/29/2023	06/29/2023		05/12/2023	05/12/2023	05/12/2023	06/29/2023	06/29/2023	06/29/2023	04/21/2023	06/29/2023		
TIME COLLECTED:			15:25:00	15:20:00			11:10:00		08:25:00			14:15:00	13:40:00	13:20:00	09:45:00	08:35:00	08:35:00	09:10:00	12:45:00		
Parameters	Units	Method																			
Dissolved Metals																					
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	3.94	X	<	3.94	X	--	--	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X
Barium, Dissolved	ug/l	EPA 200.7/4.4	64.1	X	<	66.2	X	--	--	<	2.9	X	<	2.9	X	<	290	X	<	2.9	X
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	<	1.6	X	--	--	<	1.6	X	<	1.6	X	<	160	X	<	1.6	X
Calcium, Dissolved	mg/l	EPA 200.7/4.4	75.8	T X		77.8	T X	--	--		224	T X		996	T X	--	573	H T X		275	T X
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	<	1.99	X	--	--	<	1.99	X	<	1.99	X	<	39.8	X	<	199	X
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	<	3.86	X	--	--	<	3.86	X	<	3.86	X	<	77.2	X	<	386	X
Iron, Dissolved	ug/l	EPA 200.7/4.4	185	X	<	185	X	--	--	<	185	X	<	185	X	<	3700	X	<	185	X
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	<	0.172	X	--	--	<	0.172	X	<	0.172	X	<	344	X	<	0.172	X
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	35.3	T X		33.9	T X	--	--		50.5	T X		91	T X	--	388	I X		79	X
Manganese, Dissolved	ug/l	EPA 200.7/4.4	12.4	X	<	12.4	X	--	--	<	12.4	X		833	X	--	12.4	X		12800	X
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	<	0.0932	X	--	--	<	0.0932	X	<	0.932	X	<	0.0932	X	<	0.0932	X
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	<	5.6	X	--	--	<	5.6	X	<	5.6	X	<	112	X	<	560	X
Potassium, Dissolved	mg/l	EPA 200.7/4.4	2.62	X		2.73	X	--	--		6.53	X		55.7	T X	--	42	T X		565	T X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	<	5.55	X	--	--	<	5.55	X	<	5.55	X	<	111	X	<	555	X
Sodium, Dissolved	mg/l	EPA 200.7/4.4	16	X		16.5	X	--	--		127	T X		80.2	T X	--	865	I T X		14500	T X
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	<	2.9	X	--	--	<	2.9	X	<	2.9	X	<	58	X	<	290	X
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	<	10.1	X	--	--	<	10.1	X	<	101	X	<	202	X		2020	X
Total Metals																					
Arsenic, Total	ug/l	EPA 200.7/4.4	3.94		<	3.94		--	--	<	3.94			4310			394		<	3.94	
Barium, Total	ug/l	EPA 200.7/4.4	72.9			75.3		--	--	<	2.9		<	2.9			517		<	290	
Cadmium, Total	ug/l	EPA 200.7/4.4	1.6		<	1.6		--	--	<	1.6		<	1.6			32		<	160	
Calcium, Total	mg/l	EPA 200.7/4.4	76.8	T		80.6	T	--	--		242	T		997	T	--	561	T		263	
Chromium, Total	ug/l	EPA 200.7/4.4	1.99		<	1.99		--	--	<	1.99		<	49.8			39.8	I	<	199	
Copper, Total	ug/l	EPA 200.7/4.4	3.86		<	3.86		--	--	<	3.86		<	96.5			77.2		<	386	
Iron, Total	ug/l	EPA 200.7/4.4	485			606		--	--	<	185		<	185			3700	I		67200	
Lead, Total	ug/l	EPA 200.7/4.4	6.82			7.42		--	--		0.7			0.738		--	0.172		<	344	
Magnesium, Total	mg/l	EPA 200.7/4.4	37.4	T		36.8	T	--	--		54.3	T		99.2	T	--	394			71.6	
Manganese, Total	ug/l	EPA 200.7/4.4	56.1			115		--	--	<	12.4			7190	T	--	12.4			12000	
Mercury, Total	ug/l	EPA 245.1/3.0	0.0932		<	0.0932		--	--	<	0.0932		<	0.466			0.0932		<	0.0932	
Nickel, Total	ug/l	EPA 200.7/4.4	5.6		<	5.6		--	--	<	5.6		<	68.5			5.6		<	140	
Potassium, Total	mg/l	EPA 200.7/4.4	2.97			3.21		--	--		6.67			60	T	--	43			599	
Selenium, Total	ug/l	EPA 200.7/4.4	5.55		<	5.55		--	--	<	5.55		<	5.55			111	I	<	555	
Sodium, Total	mg/l	EPA 200.7/4.4	17.9			19.6		--	--		142	T		89.6	T	--	848	T		12500	
Silver, Total	ug/l	EPA 200.7/4.4	2.9		<	2.9		--	--	<	2.9		<	2.9			72.5		<	58	I
Zinc, Total	ug/l	EPA 200.7/4.4	10.1		<	10.1		--	--	<	10.1		<	252			202	I		2500	
General Chemistry																					
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	245			247		--	--		308			217		--	201			937	
Ammonia	mg/l	ASTM D6919-09	0.0475			0.105		--	--	<	0.0475		<	0.0475	A1		69.28	A1		662.1	A1
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	240			247		--	--		308			217		--	201			937	
Chemical Oxygen Demand	mg/l	EPA 410.4	20.3		<	15	K	--	--		33.8			67.6		--	49.6			2200	
Chloride	mg/l	EPA 300.0/2.1	26.6			26.3		--	--		119			1030		--	1050			4670	
Cyanide, Total	ug/l	SM 4500 CN C11	6		<	6		--	--	<	6		<	6		--	12		<	6	
Fluoride	mg/l	EPA 300.0/2.1	0.099		<	0.099		--	--		2.1		<	0.099		--	0.992		<	0.992	
Nitrate	mg/l	EPA 300.0/2.1	0.085			0.455	J	--	--		0.928	J		40.98		--	29.25		<	0.852	
pH	pH Units	SM 4500-H11	8.32			8.11		--	--		7.12			7.1		--	7.81			7.22	
Phenolics	--	EPA 420.1	0.122			0.194	H F	--	--	<	0.017			0.332		--	0.073			0.057	
Specific Conductance	umhos/cm	SM 2510B-11	688			692		--	--		1950			5160		--	7640			48600	
Sulfate	mg/l	EPA 300.0/2.1	105			96		--	--		669			1360		--	3250			26900	
Total Dissolved Solids	mg/l	SM 2540C-11	230			130		--	--		1180			4180	K	--	6000	K		55800	
Total Organic Carbon	mg/l	SM 5310 C-11	4.28			4.26		--	--		2.77		<	0.258		--	0.658	K		112	K
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	0.0037	C1	<	0.0037	C	--	--		0.106	C1		0.0105	C1	--	0.0236	C1		0.224	C1
Turbidity	NTU	SM 2130 B-11	27.6			149		--	--		1.58			2.32		--	6.34			147	
Organics																					
1,1,1-Trichloroethane	ug/l	EPA 8260B	0.29		<	0.29		--	--	<	0.29		<	0.29		--	0.29	A4	<	0.29	
1,1-Dichloroethane	ug/l	EPA 8260B	0.27		<	0.27		--	--	<	0.27		<	0.27		--	1.48	A4	<	0.27	
1,1-Dichloroethene	ug/l	EPA 8260B	0.33	D	<	0.33	D	--	--	<	0.33	D	<	0.33	D	--	0.33	A4	<	0.33	D
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	0.49		<	0.49		--	--	<	0.49		<	0.49		--	0.49	A4	<	0.49	
1,2-Dichloroethane	ug/l	EPA 8260B	0.4		<	0.4		--	--	<	0.4		<	0.4		--	0.4	A4	<	0.4	
Benzene	ug/l	EPA 8260B	0.31		<	0.31		--	--	<	0.31		<	0.31		--	2.32	A4	<	0.31	
cis-1,2-Dichloroethene	ug/l	EPA 8260B	0.37		<	0.37		--	--	<	0.37		<	0.37		--	0.37	A4	<	0.37	
Ethylbenzene	ug/l	EPA 8260B	0.23		<	0.23		--	--	<	0.23		<	0.23		--	0.23	A4	<	0.23	
Methylene chloride	ug/l	EPA 8260B	0.43		<	0.43		--	--	<	0.43		<	0.43		--	0.43	A4		61.8	
Naphthalene	ug/l	EPA 82																			

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
3Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			MW-701-LS		MW-702-LS		MW-704-LS		MW-702-PC		MW-704-PC		PC-1		PC-2		PC-3		PC-5		PC-7		PC-8		PC-9		RC-1					
DATE COLLECTED:			08/01/2023		08/01/2023		09/26/2023		07/31/2023				07/12/2023		07/31/2023		08/01/2023						08/01/2023		08/01/2023		07/28/2023					
TIME COLLECTED:			13:30:00		11:00:00		09:40:00		13:20:00				10:00:00		15:00:00		15:00:00						09:45:00		09:30:00		11:00:00					
Parameters		Units	Method																													
Dissolved Metals																																
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	--	<	3.94	X	<	3.94	X	--	--	<	3.94	X	<	3.94	X	<	3.94	X
Barium, Dissolved	ug/l	EPA 200.7/4.4		986	X		242	X		172	X	<	2.9	X	--	<	2.9	X	<	2.9	X	--	--		114	X	<	2.9	X	<	2.9	X
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	--	<	1.6	X	<	1.6	X	--	--	<	1.6	X	<	1.6	X	<	1.6	X
Calcium, Dissolved	mg/l	EPA 200.7/4.4		11.5	X		2.48	X		7.26	X		37.2	T X	--		217	T X		79.4	T X		1200	T X	--	--		271	T X		132	T X
Chromium, Dissolved	ug/l	EPA 200.7/4.4	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	--		10.6	X		5.54	X		23.3	X	--	--	<	1.99	X	<	1.99	X
Copper, Dissolved	ug/l	EPA 200.7/4.4	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	--		55.7	X		21.1	X		218	X	--	--	<	3.86	X	<	3.86	X
Iron, Dissolved	ug/l	EPA 200.7/4.4	<	185	X	<	185	X	<	185	X		17000	T X	--		6560	T X		10300	T X		10500	T X	--	--	<	185	X	<	185	X
Lead, Dissolved	ug/l	EPA 200.7/4.4	<	0.172	X	<	0.172	X	<	0.172	F X	<	0.172	X	--		3.79	X		2.77	X		11.4	X	--	--	<	0.172	X	<	0.172	X
Magnesium, Dissolved	mg/l	EPA 200.7/4.4		4.12	X		0.771	X		1.87	X		13.1	X	--		38.7	T X		20.8	T X		109	T X	--	--		43.7	T X		36.8	T X
Manganese, Dissolved	ug/l	EPA 200.7/4.4		23.5	X	<	12.4	X		43.5	X		1170	X	--		2360	T X		1130	X		10900	T X	--	--		802	X		41	X
Mercury, Dissolved	ug/l	EPA 245.1/3.0	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	--	<	0.0932	X	<	0.0932	X	<	0.0932	X	--	--	<	0.0932	X	<	0.0932	X
Nickel, Dissolved	ug/l	EPA 200.7/4.4	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	--		211	X		82.3	X		516	X	--	--		51.1	X	<	5.6	X
Potassium, Dissolved	mg/l	EPA 200.7/4.4		1.79	X		1.02	X		0.959	X		1.38	X	--		5.54	X		1.18	X		28.7	X	--	--		6.73	X		3.55	X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	--	<	5.55	X	<	5.55	X	<	5.55	X	--	--	<	5.55	X	<	5.55	X
Sodium, Dissolved	mg/l	EPA 200.7/4.4		126	T X		306	T X		276	T X		11.4	X	--		124	T X		5.83	X		286	T X	--	--		83.1	T X		37.5	X
Silver, Dissolved	ug/l	EPA 200.7/4.4	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	--	<	2.9	X	<	2.9	X	<	2.9	X	--	--	<	2.9	X	<	2.9	X
Zinc, Dissolved	ug/l	EPA 200.7/4.4	<	10.1	X	<	10.1	X		22	X		62.3	X	--		324	X		151	X		831	X	--	--		47.6	X	<	10.1	X
Total Metals																																
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
General Chemistry																																
Alkalinity, Total	mg CaCO3/L	SM 2320B-11		382			520			532		<	9.24		--	<	9.24		<	9.24		<	9.24		--	--		183		133		405
Ammonia	mg/l	ASTM D6919-09	<	9.5			0.1245			0.2077			0.4668		--		2.413			0.3812			26.68		--	--		0.1898		1.024		3.37
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B		382			520			532		<	9.24		--	<	9.24		<	9.24		<	9.24		--	--		183		133		405
Chemical Oxygen Demand	mg/l	EPA 410.4		96.8			22.5			67.6		<	15		--		24.8			29.3			181		--	--		58.6		<	15	
Chloride	mg/l	EPA 300.0/2.1	<	0.136			66.1			50.4			9.6		--		298			4.69			2420		--	--		227		65.5		536
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoride	mg/l	EPA 300.0/2.1		2.03			5.69			3.56		<	0.099		--	<	0.05		<	0.099		<	0.099		--	--	<	0.099		<	0.099	<
Nitrate	mg/l	EPA 300.0/2.1		0.819	J		0.432	J	<	0.085			0.085		--		4.346			0.338	J		57.99		--	--		1.225	J		0.686	J
pH	pH Units	SM 4500-H11		8.1			8.32			8.23			5.37		--		2.95			3.01			3.59		--	--		6.74		6.51		7.18
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Specific Conductance	umhos/cm	SM 2510B-11		689			1380			1200			451		--		2740			1190			8390		--	--		1830		1050		3330
Sulfate	mg/l	EPA 300.0/2.1		2.68			101			38.2			179		--		852			482			1530		--	--		581		344		709
Total Dissolved Solids	mg/l	SM 2540C-11		370			925			965			305		--		1650			625			7560		--	--		1310		655		2400
Total Organic Carbon	mg/l	SM 5310 C-11		1.64			0.981			1.59			1.23																			

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
3Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			RC-2	RC-5	RC-6A	SP-2	SP-3	W-2	W-4	W-5	W-6	W-8	W-9	W-10	W-11	W-12	W-13	PW-1	
DATE COLLECTED:			07/28/2023		09/26/2023	08/25/2023	07/28/2023	07/12/2023	09/26/2023	07/12/2023	08/01/2023	07/28/2023	09/01/2023	09/26/2023	07/12/2023	07/12/2023	08/01/2023	09/26/2023	
TIME COLLECTED:			11:35:00		12:00:00	15:30:00	11:15:00	11:30:00	11:10:00	11:00:00	16:15:00	12:00:00	11:00:00	10:40:00	12:00:00	12:15:00	10:10:00	08:45:00	
Parameters	Units	Method																	
Dissolved Metals																			
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	10.1	K X I	--	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X	< 3.94	X
Barium, Dissolved	ug/l	EPA 200.7/4.4	197	X	--	148	X	< 2.9	X	< 2.9	X	249	X	124	X	49	X	76.9	X
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	--	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X	< 1.6	X
Calcium, Dissolved	mg/l	EPA 200.7/4.4	94.7	I T X	--	2.27	X	59.7	T X	439	T X	110	I T X	4.61	X	2.23	X	12.9	1 X
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	1 X	--	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	X	< 1.99	1 X	< 1.99	X	< 1.99	X
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	--	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X	< 3.86	X
Iron, Dissolved	ug/l	EPA 200.7/4.4	1360	1 X	--	< 185	X	< 185	X	< 185	X	329	X	< 185	X	< 185	X	224	X
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	--	< 0.172	F X	< 0.172	X	< 0.172	K X	< 0.172	F X	< 0.172	X	0.559	X	< 0.172	F X
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	26.7	I T X	--	0.482	X	18.2	X	175	X	37.4	T X	1.26	X	0.478	X	3.24	X
Manganese, Dissolved	ug/l	EPA 200.7/4.4	549	X	--	< 12.4	X	643	X	5050	T X	70.2	X	< 12.4	X	< 12.4	X	52.7	X
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	--	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X	< 0.0932	X
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	--	< 5.6	X	< 5.6	X	80.5	X	5.6	X	< 5.6	X	< 5.6	X	< 5.6	X
Potassium, Dissolved	mg/l	EPA 200.7/4.4	7.78	X	--	3.2	X	4.07	X	45.5	T X	5.82	X	1.65	X	1.31	X	2.37	X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	--	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X	< 5.55	X
Sodium, Dissolved	mg/l	EPA 200.7/4.4	473	I T X	--	380	I T X	9.67	X	581	X T	21.5	X	285	T X	415	T X	669	I T X
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	1 X	--	< 2.9	1 X	< 2.9	X	< 2.9	1 X	< 2.9	X	< 2.9	1 X	< 2.9	X	< 2.9	1 X
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	--	< 10.1	X	< 10.1	D X	112	X	< 10.1	X	< 10.1	X	< 10.1	X	< 10.1	X
Total Metals																			
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Chemistry																			
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	398	--	--	846	--	112	--	96.8	--	299	--	683	--	925	--	939	--
Ammonia	mg/l	ASTM D6919-09	7.223	--	--	< 0.0475	--	0.2023	--	< 0.0475	--	0.1891	--	0.2863	--	0.1245	--	< 0.0475	--
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	398	--	--	817	--	112	--	96.8	--	299	--	683	--	886	--	939	--
Chemical Oxygen Demand	mg/l	EPA 410.4	135	--	--	< 15	--	144	K	56.3	--	< 15	--	< 15	--	< 15	--	20.3	--
Chloride	mg/l	EPA 300.0/2.1	526	--	--	23.5	--	7.24	--	1200	--	16.8	--	8.91	--	4.17	--	485	--
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/l	EPA 300.0/2.1	0.099	--	--	3.8	--	< 0.099	--	< 0.099	--	1.35	--	6.84	--	8.19	--	3.36	--
Nitrate	mg/l	EPA 300.0/2.1	0.085	--	--	< 0.085	--	1.231	J	12.76	--	0.396	J	< 0.085	--	0.302	J	< 0.085	--
pH	pH Units	SM 4500-H11	7.14	--	--	8.56	--	7.47	--	6.57	--	7.92	--	8.27	--	8.67	--	7.34	--
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Specific Conductance	umhos/cm	SM 2510B-11	2910	--	--	1600	--	495	--	5620	--	894	--	1260	--	1680	--	3060	--
Sulfate	mg/l	EPA 300.0/2.1	304	--	--	32.6	--	117	--	1240	--	155	--	< 0.079	--	1.74	--	< 0.079	--
Total Dissolved Solids	mg/l	SM 2540C-11	1560	--	--	680	--	215	--	3270	--	500	K	580	--	770	--	1770	--
Total Organic Carbon	mg/l	SM 5310 C-11	6.51	--	--	1.07	--	4.7	--	< 0.258	--	1.47	--	1.27	--	1.02	--	0.738	--
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	0.551	C1	--	< 0.0037	C1a	< 0.0073	C1	0.0162	C1	< 0.0037	C1	< 0.0037	C1a	0.0214	C1a	< 0.0037	C1
Turbidity	NTU	SM 2130 B-11	34.3	--	--	1.2	--	595	--	209	--	19.3	--	1.8	--	6.49	--	22.6	--
Organics																			
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes (total)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
3Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			PW-2	PW-3	Gardner (Jones)	Kiselich	Reinstadler	MD-A	MD-B	S-A	S-B	S-C	
DATE COLLECTED:			09/01/2023	09/01/2023		09/26/2023	09/26/2023			07/27/2023	07/27/2023	07/27/2023	
TIME COLLECTED:			13:35:00	12:30:00		10:30:00	11:15:00			10:30:00	11:00:00	09:45:00	
Parameters	Units	Method											
Dissolved Metals													
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 3.94 X	< 3.94 X	--	--	< 3.94 X	< 3.94 X	< 3.94 X	<
Barium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	30 X	< 2.9 X	--	--	66.8 X	73.2 X	82.8 X	X
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.6 X	< 1.6 X	--	--	< 1.6 X	< 1.6 X	< 1.6 X	X
Calcium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	15.5 X	16.1 X	--	--	44.5 F T X	94 X F T	227 F T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.99 X	< 1.99 X	--	--	< 1.99 X	< 1.99 X	< 1.99 X	<
Copper, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	64.9 X	< 3.86 X	--	--	< 3.86 X	< 3.86 X	< 3.86 X	<
Iron, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 185 X	< 185 X	--	--	< 185 X	< 185 X	< 185 X	<
Lead, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	1.15 X	1.14 X	--	--	< 0.172 X	< 0.172 X	0.643 X	<
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	3.7 X	2.94 X	--	--	22 X	32 X	48.4 X	X
Manganese, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 12.4 X	< 12.4 X	--	--	< 12.4 X	1670 X	< 12.4 X	X
Mercury, Dissolved	ug/l	EPA 245.1/3.0	--	--	--	< 0.0932 X	< 0.0932 X	--	--	< 0.0932 X	< 0.0932 X	< 0.0932 X	<
Nickel, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.6 X	< 5.6 X	--	--	< 5.6 X	< 5.6 X	< 5.6 X	<
Potassium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	1.4 X	0.685 X	--	--	5.1 X	3.25 X	6.42 X	X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.55 X	< 5.55 X	--	--	< 5.55 X	< 5.55 X	< 5.55 X	<
Sodium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	11 X	179 T X	--	--	16.5 X	21.4 X	152 T X	
Silver, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 2.9 X	< 2.9 X	--	--	< 2.9 X	< 2.9 X	< 2.9 X	<
Zinc, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	24.2 X	23.6 X	--	--	< 10.1 X	< 10.1 X	< 10.1 X	<
Total Metals													
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
General Chemistry													
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	--	--	--	28.3	355	--	--	161	304	276	
Ammonia	mg/l	ASTM D6919-09	--	--	--	0.4217	0.2054	--	--	< 0.0475	0.1875	< 0.0475	<
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	--	--	--	28.3	347	--	--	161	304	276	
Chemical Oxygen Demand	mg/l	EPA 410.4	--	--	--	20.3	< 15	--	--	67.6	24.8	40.5	
Chloride	mg/l	EPA 300.0/2.1	2.98	20.8	--	16.8	18.6	--	--	15.9	24.1	173	
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	
Fluoride	mg/l	EPA 300.0/2.1	--	--	--	< 0.099	2.27	--	--	< 0.099	2.09	< 0.099	<
Nitrate	mg/l	EPA 300.0/2.1	0.565 J	20.02	--	0.695 J	< 0.085	--	--	0.393 J	< 0.085	< 0.085	
pH	pH Units	SM 4500-H11	6.95	7.2	--	7.5	8.4	--	--	7.48	7.32	8.12	
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	
Specific Conductance	umhos/cm	SM 2510B-11	667	642	--	183	884	--	--	466	797	1940	
Sulfate	mg/l	EPA 300.0/2.1	--	--	--	24.9	81.1	--	--	53.6	110	568	
Total Dissolved Solids	mg/l	SM 2540C-11	--	--	--	50	495	--	--	340	405	1140	
Total Organic Carbon	mg/l	SM 5310 C-11	--	--	--	1.68	< 0.258	--	--	4.12 L	3.6 L	4.12 L	
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	--	--	--	0.172 C1	< 0.0037 C1a	--	--	< 0.0184 C1	< 0.0037 C1	0.0304 C1	
Turbidity	NTU	SM 2130 B-11	--	--	--	0.55	0.3	--	--	1.54	3.04	36.4	
Organics													
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Benzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Ethylbenzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Methylene chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Naphthalene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Toluene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Trichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Xylenes (total)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the i
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
 Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
3Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			S-D	S-E	S-F	S-H	Impoundment 3 Seep	Impoundment 5 Blanket Drain	Impoundment 5 Bench Drain	Landfill 6 Blanket Drain	Landfill 6 LDZ	Landfill 6 LCS	Township Road Drain	Township Road Drain Tank	North Toe Tank	East Toe Tank	South Toe Tank			
DATE COLLECTED:			07/27/2023	07/27/2023	08/25/2023	08/25/2023	07/27/2023	07/27/2023		07/27/2023	07/27/2023	07/27/2023	07/27/2023	08/25/2023	07/27/2023	07/27/2023	07/27/2023			
TIME COLLECTED:			13:50:00	13:55:00	11:20:00	14:10:00	10:15:00	08:45:00		11:40:00	11:20:00	11:30:00	08:50:00	11:30:00	08:45:00	14:25:00	12:10:00			
Parameters	Units	Method																		
Dissolved Metals																				
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	
Barium, Dissolved	ug/l	EPA 200.7/4.4	94.8	X		113	X		21.9	X	<	2.9	X		25.1	X	<	2.9	X	
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X		<	1.6	X	<	1.6	X
Calcium, Dissolved	mg/l	EPA 200.7/4.4	135	F T X		124	T		56.9	T X		81.9	T X		213	T X		1000	F T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	<	1.99	X		8	X	<	1.99	X		<	1.99	X	<	1.99	X
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X		<	3.86	X	<	3.86	X
Iron, Dissolved	ug/l	EPA 200.7/4.4	185	X	<	185	X	<	185	X	<	185	X		<	185	X	<	185	X
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	<	0.172	X	<	0.172	X	<	0.172	X		2.26	X	<	6.88	X	
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	39.4	T X		38.8	T X		10.7	X		19.4	X		409	T X		63.2	X	
Manganese, Dissolved	ug/l	EPA 200.7/4.4	29.7	X		174	X	<	12.4	X	<	12.4	X		205	X		14100	X	
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X		<	0.0932	X	<	0.0932	X
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X		<	5.6	X	<	5.6	X
Potassium, Dissolved	mg/l	EPA 200.7/4.4	4.23	X		4.34	X		3.51	X		5.61	X		82.6	T X		58.7	T X	
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	<	5.55	X	<	5.55	X		57.3	X		<	5.55	X	<	5.55	X
Sodium, Dissolved	mg/l	EPA 200.7/4.4	73.8	T X		63.5	T X		1.92	X		49.4	T X		3110	X		15200	T X	
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X		<	2.9	X	<	2.9	X
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X		20.8	X	<	10.1	D X	<	10.1	D X		20.5	X	<	101	X	
Total Metals																				
Arsenic, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Barium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Cadmium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Calcium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		
Chromium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Copper, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Iron, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Lead, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Magnesium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		
Manganese, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Mercury, Total	ug/l	EPA 245.1/3.0	--			--			--			--			--			--		
Nickel, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Potassium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		
Selenium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Sodium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--		
Silver, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
Zinc, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--		
General Chemistry																				
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	238			239			122			127			324			209		
Ammonia	mg/l	ASTM D6919-09	0.0475			0.1066			<	0.0475		<	0.0475		<	0.0475		<	0.0475	
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	238			239			98			127			324			209		
Chemical Oxygen Demand	mg/l	EPA 410.4	31.5			31.5			29.3			22.5			29.3			45		
Chloride	mg/l	EPA 300.0/2.1	80.1			72.4			<	0.136		21.8			207			1070		
Cyanide, Total	ug/l	SM 4500 CN C11	--			--			--			--			--			--		
Fluoride	mg/l	EPA 300.0/2.1	0.099			<	0.099		<	0.099		2.42			<	0.248		<	0.248	
Nitrate	mg/l	EPA 300.0/2.1	0.377	J		0.432	J		1.38	J		1.051	J		1.077	J		38.59		
pH	pH Units	SM 4500-H11	8			7.92			8.68			8.16			7.16			7.15		
Phenolics	--	EPA 420.1	--			--			--			--			--			--		
Specific Conductance	umhos/cm	SM 2510B-11	1210			1130			338			749			2190			5220		
Sulfate	mg/l	EPA 300.0/2.1	276			248			33.8			222			599			1380		
Total Dissolved Solids	mg/l	SM 2540C-11	625			650			220			340			1440			4620		
Total Organic Carbon	mg/l	SM 5310 C-11	5.01	L		5.36	L		7.05	I		7.37			4.02	L		0.258	L	
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	0.0202	C1		0.0211	C1		<	0.0073	C1	<	0.0073	C1		0.181	C1	0.0142	C1	
Turbidity	NTU	SM 2130 B-11	27.4			7.42			11.2			9.57			94.3			1.18		
Organics																				
1,1,1-Trichloroethane	ug/l	EPA 8260B	--			--			--			--			--			--		
1,1-Dichloroethane	ug/l	EPA 8260B	--			--			--			--			--			--		
1,1-Dichloroethene	ug/l	EPA 8260B	--			--			--			--			--			--		
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--			--			--			--			--			--		
1,2-Dichloroethane	ug/l	EPA 8260B	--			--			--			--			--			--		
Benzene	ug/l	EPA 8260B	--			--			--			--			--			--		
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--			--			--			--			--			--		
Ethylbenzene	ug/l	EPA 8260B	--			--			--			--			--			--		
Methylene chloride	ug/l	EPA 8260B	--			--			--			--			--			--		
Naphthalene	ug/l	EPA 8260B	--			--			--			--			--			--		
Tetrachloroethene	ug/l	EPA 8260B	--			--			--			--			--			--		
Toluene	ug/l	EPA 8260B	--			--			--			--			--			--		
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--			--			--			--			--			--		
Trichloroethene	ug/l	EPA 8260B	--			--			--			--			--			--		
Vinyl chloride	ug/l	EPA 8260B	--			--			--			--			--			--		
m,p-Xylene	ug/l	EPA 8260B	--			--			--			--			--			--		
o-Xylene	ug/l	EPA 8260B	--			--			--			--			--			--		
Xylenes (total)	ug/l	EPA 8260B	--			--			--			--			--			--		

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RESULTS
4Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			MW-701-LS		MW-702-LS		MW-704-LS		MW-702-PC		MW-704-PC		PC-1		PC-2		PC-3		PC-5		PC-7		PC-8		PC-9		RC-1					
DATE COLLECTED:			10/19/2023		10/19/2023		10/19/2023		10/18/2023				10/18/2023		10/18/2023		10/19/2023						12/26/2023		10/19/2023		10/13/2023					
TIME COLLECTED:			08:45:00		09:15:00		10:45:00		10:55:00				12:15:00		09:15:00		12:15:00						13:30:00		10:00:00		11:40:00					
Parameters		Units	Method																													
Dissolved Metals																																
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	<	3.94	X	<	19.7	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	--	--	<	3.94	X	<	3.94	X	9.38	X		
Barium, Dissolved	ug/l	EPA 200.7/4.4		792	X		257	X		214	X	<	2.9	X	--	<	2.9	X	<	2.9	X	--	--	52.9	X	<	2.9	X	22.8	X		
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	<	1.6	X	<	8	X	<	1.6	X	<	1.6	X	--	<	1.6	X	<	1.6	X	--	--	<	1.6	X	<	1.6	X	<		
Calcium, Dissolved	mg/l	EPA 200.7/4.4		8.69	X		2.7	X		7.06	X		64.7	T X	--		277	T X		109	T X	--	--		301	T X		154	T X	524	T X	
Chromium, Dissolved	ug/l	EPA 200.7/4.4	<	1.99	X	<	9.95	X	<	1.99	X	<	1.99	X	--		12.6	X		7.3	X	--	--	<	1.99	X	<	1.99	X	1.99	X	
Copper, Dissolved	ug/l	EPA 200.7/4.4	<	3.86	X	<	19.3	X	<	3.86	X		22.6	X	--		57.2	X		23.8	X	--	--	<	3.86	X	<	3.86	X	3.86	X	
Iron, Dissolved	ug/l	EPA 200.7/4.4	<	185	X	<	925	X	<	185	X		16800	T X	--		7180	T X		9840	T X	--	--	<	185	X	<	185	X	185	X	
Lead, Dissolved	ug/l	EPA 200.7/4.4	<	0.172	X		2.89	X	<	0.86	X	--		1.49	X	--		5.86	X		4.19	X	--	--	<	0.172	X	<	0.172	X	0.71	X
Magnesium, Dissolved	mg/l	EPA 200.7/4.4		3.18	X	<	0.29	X		2.02	X	--		25	T X	--		41	T X		24.6	T X	--	--		44.8	T X		35.3	T X	103	T X
Manganese, Dissolved	ug/l	EPA 200.7/4.4	<	12.4	X	<	62	X		22.4	X	--		2170	T X	--		3010	T X		1400	X	--	--		1520	X		225	X	1300	X
Mercury, Dissolved	ug/l	EPA 245.1/3.0	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	--	<	0.0932	X	<	0.0932	X	--	--	<	0.0932	X	<	0.0932	X	0.0932	X	
Nickel, Dissolved	ug/l	EPA 200.7/4.4	<	5.6	X	<	28	X	<	5.6	X	--		97.2	X	--		240	X		98.4	X	--	--		69.5	X	<	5.6	X	5.6	X
Potassium, Dissolved	mg/l	EPA 200.7/4.4		1.54	X	<	1.64	X		1.18	X	--		1.26	X	--		4.89	X		4.04	X	--	--		6.65	X	<	4.46	X	10.9	X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	<	5.55	X	<	27.8	X	<	5.55	X	<	5.55	X	--	<	5.55	X	<	5.55	X	--	--	<	5.55	X	<	5.55	X	5.55	X	
Sodium, Dissolved	mg/l	EPA 200.7/4.4		151	T X		330	T X		270	T X	--		13.3	X	--		114	T X		6.31	X	--	--		92.7	T X		35.2	X	109	T X
Silver, Dissolved	ug/l	EPA 200.7/4.4	<	2.9	X	<	14.5	X	<	2.9	X	<	2.9	X	--	<	2.9	X	<	2.9	X	--	--	<	2.9	X	<	2.9	X	2.9	X	
Zinc, Dissolved	ug/l	EPA 200.7/4.4	<	10.1	X	<	50.5	X	<	10.1	X	--		216	X	--		365	X		205	X	--	--		54.7	X	<	10.1	X	39.9	X
Total Metals																																
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
General Chemistry																																
Alkalinity, Total	mg CaCO3/L	SM 2320B-11		386			574			552		<	9.24		--	<	9.24		<	9.24		--	--		128			156		406		
Ammonia	mg/l	ASTM D6919-09	<	0.0475		<	0.0475		<	0.0475			0.4232		--		2.412	I	<	0.0475		--	--	<	0.0475		<	0.0475		5.368		
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B		386			562			552		<	9.24		--		9.24		<	9.24		--	--		128			156		406		
Chemical Oxygen Demand	mg/l	EPA 410.4		29.3			54.1			340		<	15		--		42.8			42.8		--	--	<	15			45		110		
Chloride	mg/l	EPA 300.0/2.1	<	1.51			65			52.3			17.9		--		344			2.91		--	--		167			53.4		1180		
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Fluoride	mg/l	EPA 300.0/2.1		2.38			5.55			3.42		<	0.099		--	<	0.099		<	0.099		--	--	<	0.099		<	0.099		0.099	<	
Nitrate	mg/l	EPA 300.0/2.1		1.66	J		0.961	J	<	0.085		<	0.085		--		5.905			0.558	J		--		0.626	J		0.459	J	1.409	J	
pH	pH Units	SM 4500-H11		8.3			8.45			8.26			3.28		--		2.95			2.96		--	--		6.87			7.01		7.44		
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Specific Conductance	umhos/cm	SM 2510B-11		698			1450			1210	L		879		--		2830			1300		--	--		1900			1010		2520	L	
Sulfate	mg/l	EPA 300.0/2.1		2.83			111			35.1			346		--		911			574		--	--		514			365		1500		
Total Dissolved Solids	mg/l	SM 2540C-11		365			940			620			350		--		1480			585		--	--		1340			1200		2050		
Total Organic Carbon	mg/l	SM 5310 C-11		0.915	L		1.62	L		21.2	L		0.993		--		0.508			2.04		--	--		0.704			1.41	L	1.28		
Total Organic Halogens (TOX)	mg/l	SW 846 9020B																														

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
4Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			RC-2		RC-5		RC-6A		SP-2		SP-3		W-2		W-4		W-5		W-6		W-8		W-9		W-10		W-11		W-12		W-13		PW-1														
DATE COLLECTED:			10/13/2023				10/03/2023		10/18/2023		10/13/2023		10/02/2023		11/01/2023		11/01/2023		10/02/2023		10/13/2023		10/03/2023		10/03/2023		10/17/2023		10/18/2023		10/19/2023		12/04/2023														
TIME COLLECTED:			12:10:00				12:25:00		08:00:00		12:45:00		13:00:00		15:00:00		14:30:00		12:45:00		12:30:00		10:45:00		11:25:00		14:40:00		14:55:00		11:20:00		14:20:00														
Parameters	Units	Method																																													
Dissolved Metals																																															
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	10	X	--	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	19.7	X	--											
Barium, Dissolved	ug/l	EPA 200.7/4.4	799	X	--		150	X		34.5	X	<	2.9	X	<	2.9	X		265	X		49	X		117	X		49	X		59.5	X		126	X	<	2.9	X		32.8	X	<	14.5	X	--		
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	--	<	1.6	X	<	1.6	X		4.34	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	8	X	--								
Calcium, Dissolved	mg/l	EPA 200.7/4.4	82.7	T X	--		2.33	X		160	T X		443	I T X		111	T X		4.73	X		2.39	X		12.7	X		133	I T X		39.2	T X		2.36	X		4.3	X		3.73	X		9.52	X	--		
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	--	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	9.95	X	--					
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	--	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	19.3	X	--					
Iron, Dissolved	ug/l	EPA 200.7/4.4	1180	X	--	<	185	X	<	185	X	<	185	X	<	185	X		220	X	<	185	X		272	X	<	212	X	<	185	X		282	X	<	185	X	<	925	X	--					
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	--	<	0.172	K X	<	0.172	X	<	0.172	X	<	0.172	X		2.98	X	<	0.172	X	<	0.172	X	<	0.172	I K X		2.75	X	<	0.172	X	<	0.172	I K		0.87	X		4.17	X	--		
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	22	T X	--		0.505	X		68.9	T X		165	I X		38.7	I T X		1.23	X		0.506	X		3.38	X		37.7	I T X		6.55	X		0.763	X		0.666	X		0.473	X		1.69	X	--		
Manganese, Dissolved	ug/l	EPA 200.7/4.4	433	X	--	<	12.4	X	<	12.4	X		4900	I T X		755	X	<	12.4	X	<	12.4	X		46.9	X		1360	I X		99.8	X	<	12.4	X	<	12.4	X	<	12.4	X		188	X	--		
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	--	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.466	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	--		
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	--	<	5.6	X	<	5.6	X		139	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	28	X	--					
Potassium, Dissolved	mg/l	EPA 200.7/4.4	7.14	X	--		3.46	X		5.64	X		44.3	T X		4.96	X		1.72	X		2.62	X		2.49	X		11.4	I X		9.53	X		1.39	X		1.18	K X		1.14	X		4.82	X	--		
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	--	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	27.8	X	--		
Sodium, Dissolved	mg/l	EPA 200.7/4.4	419	T X	--		405	T X		21.6	X		513	I T X		20.1	X		288	T X		418	T X		668	T X		63.5	T X		4.07	X		286	T X		185	T X		267	I T X		490	T X	--		
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	X	--	<	2.9	X	<	2.9	X	<	2.9	I X	<	2.9	I X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	I X	<	14.5	X	--		
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	--	<	10.1	X	<	10.1	X		286	X	<	10.1	X		28.5	X	<	10.1	X	<	10.1	X	<	10.1	X		23.8	X	<	10.1	X	<	10.1	X	<	10.1	X	<	50.5	X	--		
Total Metals																																															
Arsenic, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Barium, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Cadmium, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Calcium, Total	mg/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Chromium, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Copper, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Iron, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Lead, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Magnesium, Total	mg/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Manganese, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Mercury, Total	ug/l	EPA 245.1/3.0	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--
Nickel, Total	ug/l	EPA 200.7/4.4	--		--		--		--		--		--		--		--		--		--		--		--		--																				

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
4Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			PW-2	PW-3	Gardner (Jones)	Kiselich	Reinstadler	MD-A	MD-B	S-A	S-B	S-C	
DATE COLLECTED:			12/04/2023	12/04/2023		10/19/2023	10/19/2023			12/04/2023	12/04/2023	12/04/2023	
TIME COLLECTED:			15:15:00	15:20:00		13:30:00	13:00:00			16:35:00	14:10:00	14:35:00	
Parameters	Units	Method											
Dissolved Metals													
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 3.94 X	< 3.94 X	--	--	< 3.94 X	< 3.94 X	< 3.94 X	<
Barium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	42.5 X	< 2.9 X	--	--	90 X	60.7 X	62 X	X
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.6 X	< 1.6 X	--	--	< 1.6 X	< 1.6 X	< 1.6 X	<
Calcium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	20.4 T X	13 X	--	--	57.4 T X	176 T X	217 T X	X
Chromium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 1.99 X	< 1.99 X	--	--	< 1.99 X	< 1.99 X	< 1.99 X	<
Copper, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	55.3 X	28.7 X	--	--	< 3.86 X	< 3.86 X	< 3.86 X	<
Iron, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 185 X	< 185 X	--	--	< 185 X	< 185 X	< 185 X	<
Lead, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	2.25 T X	0.773 X	--	--	0.533 X	< 0.172 X	0.834 K X	<
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	5.32 X	2.68 X	--	--	27.4 T X	41.7 X T	44.9 T X	X
Manganese, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 12.4 X	< 12.4 X	--	--	< 12.4 X	33.1 X	< 12.4 X	<
Mercury, Dissolved	ug/l	EPA 245.1/3.0	--	--	--	< 0.0932 X	< 0.0932 X	--	--	< 0.0932 X	< 0.0932 X	< 0.0932 X	<
Nickel, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.6 X	< 5.6 X	--	--	< 5.6 X	< 5.6 X	< 5.6 X	<
Potassium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	2.16 X	1.03 X	--	--	2.59 X	3.04 X	6.11 X	X
Selenium, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 5.55 X	< 5.55 X	--	--	< 5.55 X	< 5.55 X	< 5.55 X	<
Sodium, Dissolved	mg/l	EPA 200.7/4.4	--	--	--	14 X	194 T X	--	--	13.4 X	17 X	98.7 T X	X
Silver, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 2.9 T X	< 2.9 X	--	--	< 2.9 X	< 2.9 X	< 2.9 X	<
Zinc, Dissolved	ug/l	EPA 200.7/4.4	--	--	--	< 10.1 X	< 10.1 X	--	--	< 10.1 X	< 10.1 X	< 10.1 X	<
Total Metals													
Arsenic, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Barium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Cadmium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Calcium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Chromium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Copper, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Iron, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Lead, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Magnesium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Manganese, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Mercury, Total	ug/l	EPA 245.1/3.0	--	--	--	--	--	--	--	--	--	--	
Nickel, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Potassium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Selenium, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Sodium, Total	mg/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Silver, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
Zinc, Total	ug/l	EPA 200.7/4.4	--	--	--	--	--	--	--	--	--	--	
General Chemistry													
Alkalinity, Total	mg CaCO3/L	SM 2320B-11	--	--	--	34.3	364	--	--	193	224	301	
Ammonia	mg/l	ASTM D6919-09	--	--	--	0.6131	0.1961	--	--	< 0.0475	< 0.0475	< 0.0475	<
Bicarbonate Alkalinity	mg CaCO3/L	SM20-2320B	--	--	--	34.3	364	--	--	193	224	301	
Chemical Oxygen Demand	mg/l	EPA 410.4	--	--	--	< 15	< 15	--	--	< 15 K	< 15	24.8	<
Chloride	mg/l	EPA 300.0/2.1	4.33	153	--	21.4	20.6	--	--	16	17.7	91	
Cyanide, Total	ug/l	SM 4500 CN C11	--	--	--	--	--	--	--	--	--	--	
Fluoride	mg/l	EPA 300.0/2.1	--	--	--	< 0.099	2.33	--	--	< 0.099	< 0.099	< 0.099	<
Nitrate	mg/l	EPA 300.0/2.1	0.43 J	17.22	--	0.72 J	< 0.085	--	--	0.381 J	0.482 J	0.431 J	J
pH	pH Units	SM 4500-H11	6.85	7.17	--	7.17	8.3	--	--	7.97	8.12	8.22	
Phenolics	--	EPA 420.1	--	--	--	--	--	--	--	--	--	--	
Specific Conductance	umhos/cm	SM 2510B-11	596	1130	--	220 L	872 L	--	--	571	1140	1670	
Sulfate	mg/l	EPA 300.0/2.1	--	--	--	38.4	75.1	--	--	73.4	394	505	
Total Dissolved Solids	mg/l	SM 2540C-11	--	--	--	210	595	--	--	260	870	1160	
Total Organic Carbon	mg/l	SM 5310 C-11	--	--	--	2.19	0.526 L	--	--	3.65	5.87	3.42	
Total Organic Halogens (TOX)	mg/l	SW 846 9020B	--	--	--	0.227 T X	< 0.0073 aC1	--	--	< 0.0037 C1a	0.0231 C1	0.0649 C1	
Turbidity	NTU	SM 2130 B-11	--	--	--	0.25	0.2	--	--	5.7	1.5	0.85	
Organics													
1,1,1-Trichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Benzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Ethylbenzene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Methylene chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Naphthalene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Toluene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Trichloroethene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
m,p-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
o-Xylene	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	
Xylenes (total)	ug/l	EPA 8260B	--	--	--	--	--	--	--	--	--	--	

Notes:
1. Medium Specific Concentration for groundwater (MSC) from the i
Values assume a residential used aquifer with TDS ≤ 2,500 mg/L).
2. MSC based on secondary contaminant limits based on cosmetic or
"nse" Denotes no standard established.
 Indicates an exceedance of MSC

TABLE 1
SUMMARY OF LABORATORY ANALYTICAL RES
4Q2023
MAX ENVIRONMENTAL
YUKON FACILITY

SAMPLE ID:			S-D	S-E		S-F		S-H		Impoundment 3 Seep		Impoundment 5 Blanket Drain		Impoundment 5 Bench Drain		Landfill 6 Blanket Drain		Landfill 6 LDZ		Landfill 6 LCS		Township Road Drain		Township Road Drain Tank		North Toe Tank		East Toe Tank		South Toe Tank														
DATE COLLECTED:			12/04/2023	12/04/2023		12/04/2023		12/04/2023		10/13/2023		10/17/2023		10/17/2023		10/17/2023		10/17/2023		10/17/2023		10/17/2023		12/04/2023		11/01/2023		10/17/2023		10/13/2023														
TIME COLLECTED:			14:50:00	14:45:00		14:30:00		14:55:00		09:20:00		10:25:00		09:40:00		09:20:00		09:30:00		09:30:00		11:10:00		14:00:00		12:00:00		11:35:00		13:25:00														
Parameters		Units	Method																																									
Dissolved Metals																																												
Arsenic, Dissolved	ug/l	EPA 200.7/4.4	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X	--	<	78.8	X		42400	X		363	X		170	X	<	3.94	X	<	3.94	X	<	3.94	X	<	3.94	X			
Barium, Dissolved	ug/l	EPA 200.7/4.4	74.3	X		78.7	X		65.5	X		72.9	X	<	2.9	X	--	<	58	X	<	290	X		520	X		129	X		33.5	X	<	2.9	X	<	2.9	X	<	2.9	X			
Cadmium, Dissolved	ug/l	EPA 200.7/4.4	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X	--	<	32	X		634	X	<	32	X		24.7	X	<	1.6	X	<	1.6	X	<	1.6	X	<	1.6	X			
Calcium, Dissolved	mg/l	EPA 200.7/4.4	131	X T		137	T X		157	T X		138	T X		266	T X	--		688	T X	<	20.6	X		10700	T X		8830	T X		89	T X		120	T X		115	T X		373	T X			
Chromium, Dissolved	ug/l	EPA 200.7/4.4	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X	--	<	39.8	X	<	199	X	<	39.8	X		31.8	X	<	1.99	X	<	1.99	X	<	1.99	X	<	1.99	X			
Copper, Dissolved	ug/l	EPA 200.7/4.4	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	--	<	77.2	X	<	386	X	<	77.2	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X	<	3.86	X
Iron, Dissolved	ug/l	EPA 200.7/4.4	185	X	<	185	X	<	185	X	<	185	X	<	185	X	--	<	3700	X	<	18500	X	<	3700	X		52800	T X	<	185	X	<	185	X	<	185	X	<	185	X			
Lead, Dissolved	ug/l	EPA 200.7/4.4	0.172	X	<	0.172	X		0.946	X	<	0.172	X	<	0.172	X	--	<	1.72	X		641	X	<	1.72	X		19.5	X	<	0.172	X	<	0.172	X	<	0.172	X	<	0.172	X			
Magnesium, Dissolved	mg/l	EPA 200.7/4.4	36.8	T X		38.3	T X		35.1	X T		34.2	T X		41	T X	--		460	T X	<	5.79	X	<	1.16	X		91.4	T X		17	X		22.4	X T		33.9	T X		102	T X			
Manganese, Dissolved	ug/l	EPA 200.7/4.4	12.4	X	<	12.4	X	<	12.4	X	<	12.4	X		39.8	X	--		836	X	<	1240	X	<	248	X		99400	T X	<	12.4	X	<	12.4	X		74.7	X		25.5	X			
Mercury, Dissolved	ug/l	EPA 245.1/3.0	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	--	<	0.0932	X		1.63	X	<	9.32	X	<	9.32	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X	<	0.0932	X
Nickel, Dissolved	ug/l	EPA 200.7/4.4	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X	--	<	112	X	<	560	X	<	112	X		854	X	<	5.6	X	<	5.6	X	<	5.6	X	<	5.6	X			
Potassium, Dissolved	mg/l	EPA 200.7/4.4	3.58	X		3.83	X		1.32	X		5.07	X		5.58	X	--		87.6	X		908	T X		2060	T X		640	X		5.33	X		3.57	X		12.7	X		5.59	X			
Selenium, Dissolved	ug/l	EPA 200.7/4.4	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	--	<	111	X	<	555	X	<	111	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X	<	5.55	X
Sodium, Dissolved	mg/l	EPA 200.7/4.4	39.4	X		41	T X		1.92	X		39.9	X		62.5	T X	--		3560	T X		24400	T X		1270	T X		1810	T X		17.8	X		5.26	X		19.2	X		21.8	X			
Silver, Dissolved	ug/l	EPA 200.7/4.4	2.9	I X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	--	<	58	X	<	290	X	<	58	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X	<	2.9	X
Zinc, Dissolved	ug/l	EPA 200.7/4.4	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	--	<	202	X	<	1010	X	<	202	X		1860	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X	<	10.1	X
Total Metals																																												
Arsenic, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Barium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Cadmium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Calcium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Chromium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Copper, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Iron, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Lead, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Magnesium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Manganese, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Mercury, Total	ug/l	EPA 245.1/3.0	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Nickel, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Potassium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Selenium, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Sodium, Total	mg/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Silver, Total	ug/l	EPA 200.7/4.4	--			--			--			--			--			--			--			--			--			--			--			--			--			--		
Zinc, Total	ug/l	EPA 200.7/4.4	--																																									