

October 24, 2024

U.S. Environmental Protection Agency, Region 9
Drinking Water Protection Section (WTR 4-2)
75 Hawthorne Street
San Francisco, California 94105

Attention: David Albright, Manager, Ground Water Office

Subject: Third Quarter 2024 Monitoring Report
Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY19-1

Dear Mr. Albright:

Florence Copper LLC (Florence Copper) is regulated under UIC Permit No. R9UIC-AZ3-FY19-1, issued October 31, 2023, and modified on July 9, 2024. Florence Copper has not constructed most of the facilities authorized under this permit. Wellfield rinsing activities are ongoing at the facility and are regulated under the UIC permit. As part of the rinsing plan, injection ceased on September 19, 2024. Florence Copper continues to pump the PTF wellfield and has maintained the required hydraulic gradient during the reporting period.

Background Information

The Florence Copper Project is an in-situ copper extraction facility with two related permits issued by the U.S. Environmental Protection Agency (USEPA) and the Arizona Department of Environmental Quality (ADEQ):

- **USEPA UIC Permit No. R9UIC-AZ3-FY19-1**, dated October 31, 2023, and modified on July 9, 2024, the UIC permit covers all present and future ISCR operations.
- **ADEQ Aquifer Protection Permit (APP) No. P-101704 (LTF 102081)**, dated June 27, 2024, covers all present and future ISCR operations.

Florence Copper was authorized to construct and operate a feasibility scale In-Situ Copper Recovery (ISCR) facility referred to as the Production Test Facility (PTF) under a previous UIC permit. The PTF is now incorporated into UIC Permit No. R9UIC-AZ3-FY19-1. The PTF began active operations on December 15, 2018, and began a rinsing demonstration on June 26, 2020. The authorized facilities and monitoring wells are identified on Figure 1. The configuration of the PTF wellfield, the only active ISCR wellfield at the site, is shown on Figure 2.



Florence Copper received authorization to proceed with pre-operational activities for the PTF on July 13, 2017. The PTF wellfield was completed and began operations on December 15, 2018. The rinsing activities for the PTF began on June 26, 2020. Solutions from the wellfield continued to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper until October 29, 2020.

The requirements for quarterly reporting of monitoring activities are outlined in Section II.G.2 of the UIC permit. Reporting for the APP is performed separately. However, some information pertains to both APP and UIC permits and is reported accordingly.

ISCR Operations and Monitoring Quarterly Reporting

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.a – Map of Operational Status and Groundwater Contours**

The monthly groundwater contour maps are included as Attachment 1. The operational status of the PTF facility was ACTIVE during Q3 2024 while rinsing is ongoing.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.b – Table and Graphs of Injected and Recovered Volumes**

The daily cumulative injection and recovery volumes and the daily percent recovery to injection volume values are provided in tabular and graphical format in Attachment 2. Throughout Q3 2024, the extracted volume has consistently exceeded the injected volume by 6 percent or more, and the monthly average injection rate remained below the 12,650-gallon-per-minute limit.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.c – Table and Graphs of the Well Head Measurements in the PTF**

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 3. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired wells throughout Q3 2024. Well locations are shown on Figures 1 and 2.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.d – Table and Graphs of Fluid Electrical Conductivity Measurements**

Fluid electrical conductivity (EC) values are provided in tabular and graphical format in Attachment 4. Throughout the monitoring period, the PTF wellfield was being rinsed and no injection of ISCR fluids took place. Reverse osmosis treated water was supplied to the injection wells during the monitoring period. Therefore, the EC readings were lower than the surrounding observation wells.

In accordance with Section II.F.6.b of the UIC permit, Florence Copper will propose specific conductance alert levels (ALs) before operating the commercial ISCR facility.



- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.e – Table and Graphs of Monitor Well Water Levels and Analytical Results**

The Q3 2024 Compliance Monitoring Report is provided in Attachment 5 and presents the tabular results of groundwater elevations, analytical results, field parameters, ALs, and aquifer quality limits (AQLs) for wells regulated under the UIC permit and APP. The Compliance Monitoring Report also provides a narrative summary of the Q3 2024 monitoring activities, a discussion of exceedances, and graphical presentation of monitoring results for parameters since the inception of monitoring.

Annular conductivity device (ACD) monitoring for demonstration of mechanical integrity is reported in Attachment 9. ACD monitoring of hydraulic control and ISCR fluid movement was not conducted during the reporting period and will be reported in future quarterly compliance reports in Attachment 10 after installation of new wells with ACDs.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.f – Results of Monthly Lixiviant Organic Analysis**

The analytical results for monthly lixiviant organic analysis are provided in tabular format in Attachment 6. Total monthly organic concentrations were below the maximum allowable average in Q3 2024.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.g – Results of Monitoring Required if Injection Fluid is Modified**

During Q3 2024, rinsing activities continued in the PTF. As part of the ongoing rinsing activities, sodium bicarbonate was added to the rinsing injection fluid beginning on January 26, 2022. Routine monthly analysis of the rinsing solution was completed during Q3 2024 and will continue throughout the rinsing demonstration while there is active injection in the wellfield.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.h – Results of Mechanical Integrity Testing**

Temperature logging of multi-level sampling wells WB-01, WB02, WB-03, and WB-04 was conducted during Q3 2024 to demonstrate mechanical integrity. A summary of results is provided in Attachment 7. Temperature logs in each of the four multi-level sampling wells showed no anomalies that indicate casing leaks or fluid flow outside of the well casings.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.i – Analytical Results for Monthly Treated Water Samples**

Monthly analytical results for samples of the treated water are provided in Attachment 8.

- **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.j – Results of ACD Monitoring for Demonstration of Mechanical Integrity**

The results of the Q3 2024 well bore annular EC monitoring are provided in Attachment 9. Per Section II.G.2.e of the UIC permit, graphical presentation of the



monitoring results since the inception of monitoring is provided for the ACD data. Currently, ACDs are only installed in observation wells. Once available, ACD monitoring in injection, recovery, and perimeter wells will be provided in Attachment 9 of future quarterly reports.

The previously observed annular EC measured resistivity values differ from Q3 2024 values in various observation wells. Florence Copper conducted an investigation to determine the cause of variability and determined increases and decreases in values are a result of electrical noise associated with changes in the operation of electrical equipment in the wellfield.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.k – Results of ACD Monitoring for Demonstration of Hydraulic Control and Protection of the Lower Basin Fill Unit and the Upper Basin Fill Unit from vertical ISCR Fluid Movement**

No ISCR wells or ACDs were installed, and no ISCR fluids were injected during Q3 2024. Consequently, ACD monitoring of hydraulic control and ISCR fluid movement was not conducted during the reporting period. In accordance with Section II.F.6. of the UIC permit, Florence Copper will complete and submit the results of ACD baseline monitoring before commencing operation of the commercial ISCR facility. During initial ISCR operations, Florence Copper will perform a demonstration of ACD response to the detection of ISCR fluid movement. Future ACD results related to hydraulic control and the movement of ISCR fluid will be provided in Attachment 10.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.l – Summary of Plugging and Abandonment Activity**

A total of four core holes were abandoned during Q3 2024. All four abandonments were located within the Area of Review for the UIC permit. The Well Abandonment Report is provided in Attachment 11.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.m – Summary of Rinsing and Closure Operations**

The SX/EW plant ceased operation on October 29, 2020. PTF wellfield rinsing began in 2020 and continued through Q3 2024. No closure of UIC authorized facilities were initiated in this monitoring period.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.n – Table of Monthly Casing Annulus and Injection Pressures**

Monthly maximum, minimum, and average injection pressures are provided in Attachment 12. No exceedances of the injection pressure limit occurred during Q3 2024.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Section II.G.2.o – Resource Block Status Report**

While the PTF wellfield continues rinsing activities, Florence Copper began well construction and planning phases for the surrounding resource blocks. The status of portions of a resource block may be different during the reporting period (i.e., rinsing,



planned, or under construction) because of the location of wells. A resource block status summary table and figure are provided in Attachment 13.

■ **UIC Permit No. R9UIC-AZ3-FY19-1 Appendix H – Migratory Bird Landings and Mortality**

Daily inspection of the water impoundments was conducted to record any migratory bird landings and/or identify any migratory bird mortality. As summarized in Attachment 14, no bird landings were observed at the water impoundments during Q3 2024.

Please call (520) 374-3984 with any questions regarding the content of this document.

Sincerely,
Florence Copper LLC

John Mays
General Manager

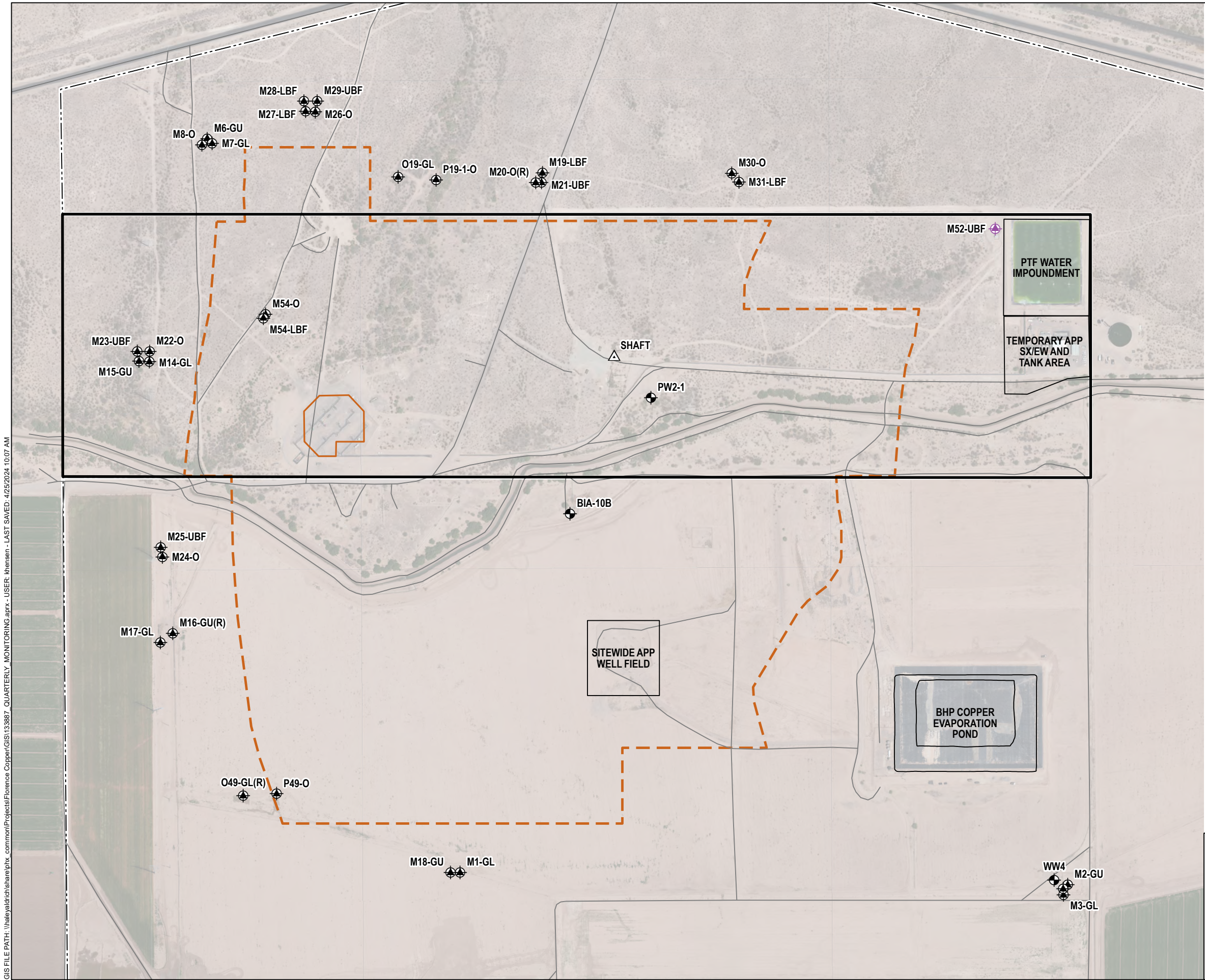


Enclosures:

- Figure 1 – Groundwater Monitoring Area
- Figure 2 – PTF Wellfield
- Attachment 1 – Map of Operational Status and Groundwater Contours
- Attachment 2 – Table and Graphs of Injected and Recovered Volumes
- Attachment 3 – Table and Graphs of the Well Head Measurements
- Attachment 4 – Table and Graphs of Fluid Electrical Conductivity Measurements
- Attachment 5 – Table and Graphs of Monitor Well Water Levels and Analytical Results
- Attachment 6 – Results of Monthly Lixiviant Organic Analysis
- Attachment 7 – Results of Mechanical Integrity Testing
- Attachment 8 – Results for Monthly Treated Water Samples
- Attachment 9 – Results of Annular Conductivity Device Monitoring of Mechanical Integrity
- Attachment 10 – Results of Annular Conductivity Device Monitoring of Hydraulic Control and ISCR Fluid Movement (*Placeholder – Not Applicable for this Monitoring Period*)
- Attachment 11 – Summary of Plugging and Abandonment
- Attachment 12 – Table of Monthly Casing Annulus and Injection Pressures
- Attachment 13 – Resource Block Status Report
- Attachment 14 – Migratory Bird Landings

FIGURES

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LEGEND

-  PRODUCTION WELL
-  APP AND UIC POINT OF COMPLIANCE (POC) WELL
-  APP POC WELL
-  SHAFT
-  STATE LEASE BOUNDARY
-  PRODUCTION TEST FACILITY (PTF) WELL FIELD
-  IN-SITU COPPER RECOVERY (ISCR) WELL FIELD
-  PROPERTY BOUNDARY

NOTES

1. APP PERMIT NO. 101704, LTF 102081
2. UIC PERMIT NO: R9UIC-AZ3-FY19-1
3. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE (UAV), FLORENCE COPPER, 7 FEBRUARY 2022

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ALDRICH**

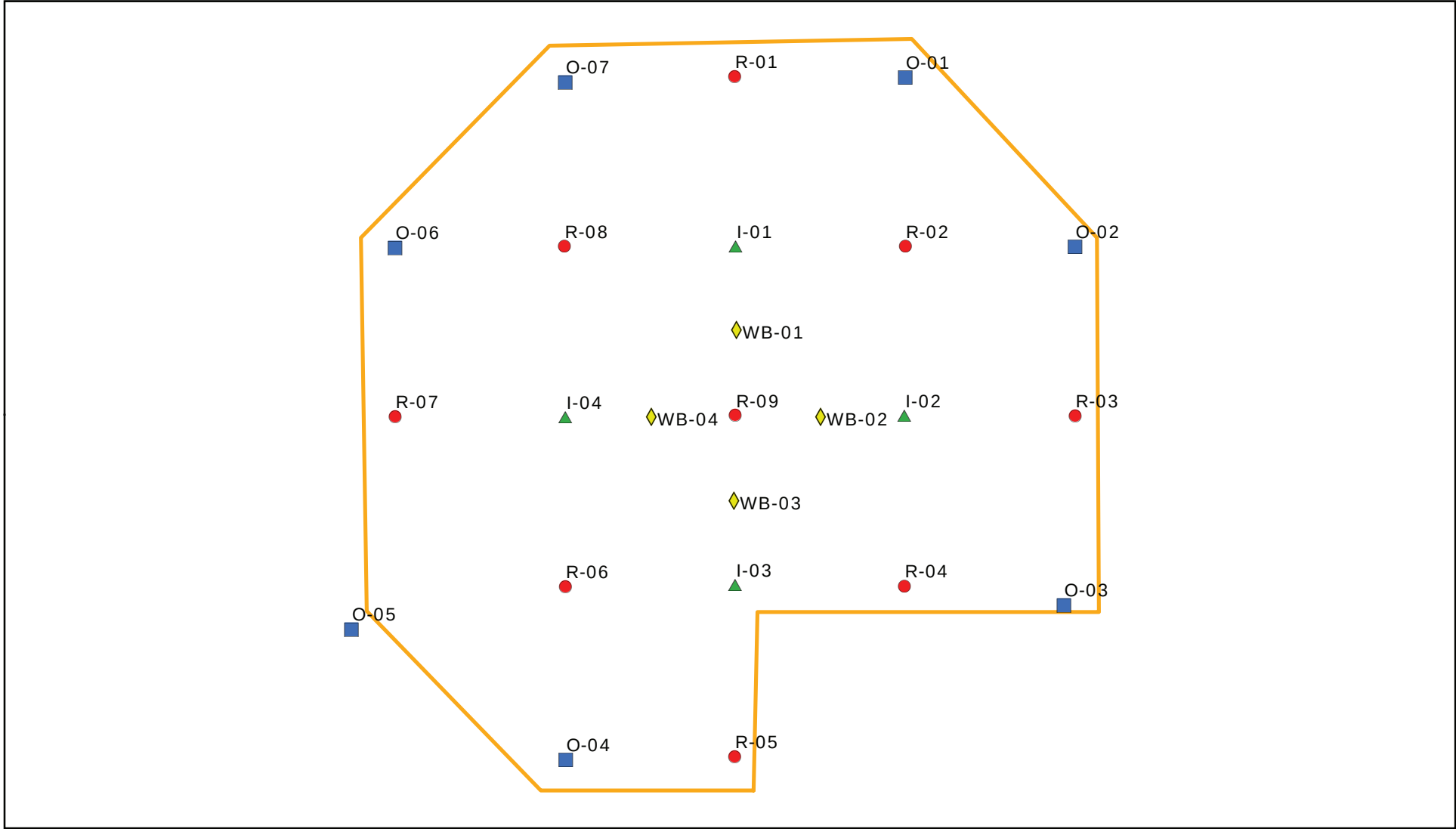
FLORENCE COPPER LLC
FLORENCE, ARIZONA

GROUNDWATER MONITORING AREA

**Florence
Copper**

OCTOBER 2024

FIGURE 1



LEGEND

-  INJECTION WELL
-  OBSERVATION WELL
-  RECOVERY WELL
-  WESTBAY WELL
-  PTF WELLFIELD

NOTES

1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE



0 30 60
SCALE IN FEET

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FLORENCE ARIZONA

PTF WELLFIELD

Florence
Copper

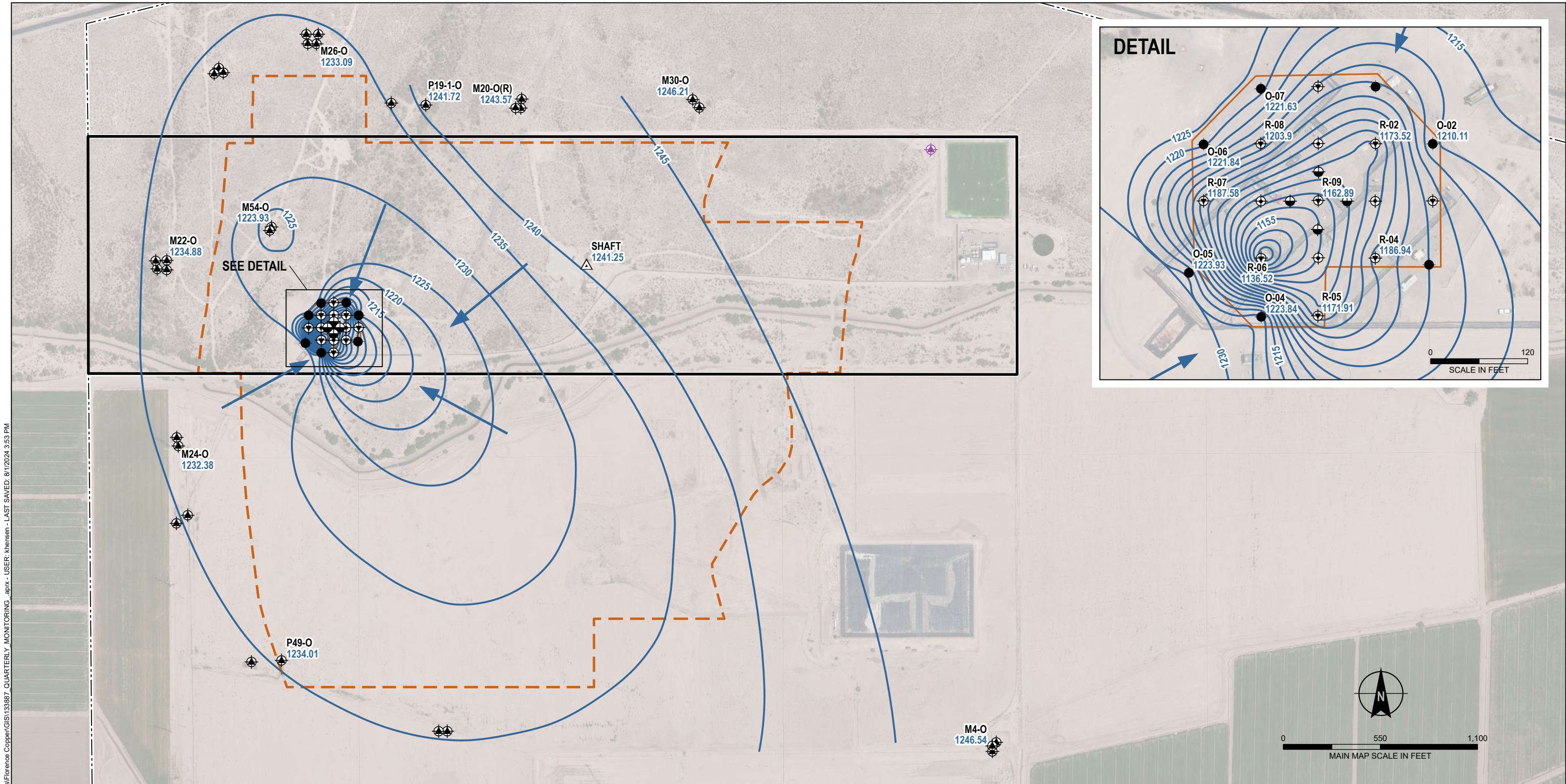
OCTOBER 2024

FIGURE 2

ATTACHMENT 1

Map of Operational Status and Groundwater Contours

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LEGEND

- | | | | | | |
|--|--|--|---|--|---|
| | OBSERVATION WELL | | APP POC WELL | | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
| | INJECTION WELL | | SHAFT | | IN-SITU COPPER RECOVERY (ISCR) WELL FIELD |
| | RECOVERY WELL | | GROUNDWATER ELEVATION CONTOUR, IN FEET, DASHED WHERE INFERRED | | PROPERTY BOUNDARY |
| | WESTBAY WELL | | GROUNDWATER FLOW DIRECTION | | |
| | APP AND UIC POINT OF COMPLIANCE (POC) WELL | | STATE LEASE BOUNDARY | | |

NOTES

1. APP PERMIT NO. 101704, LTF 102081
2. UIC PERMIT NO: R9UIC-AZ3-FY19-1
3. WATER LEVEL DATA WAS COLLECTED IN 10 JULY 2024.
4. WELLS O-01, O-03, AND R-03 WERE OFF DUE TO RECONDITIONING.
5. WELLS WITH IDs AND GROUNDWATER ELEVATION WERE USED IN CONTOURING.
6. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE (UAV), FLORENCE COPPER, 7 FEBRUARY 2022

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FLORENCE, ARIZONA

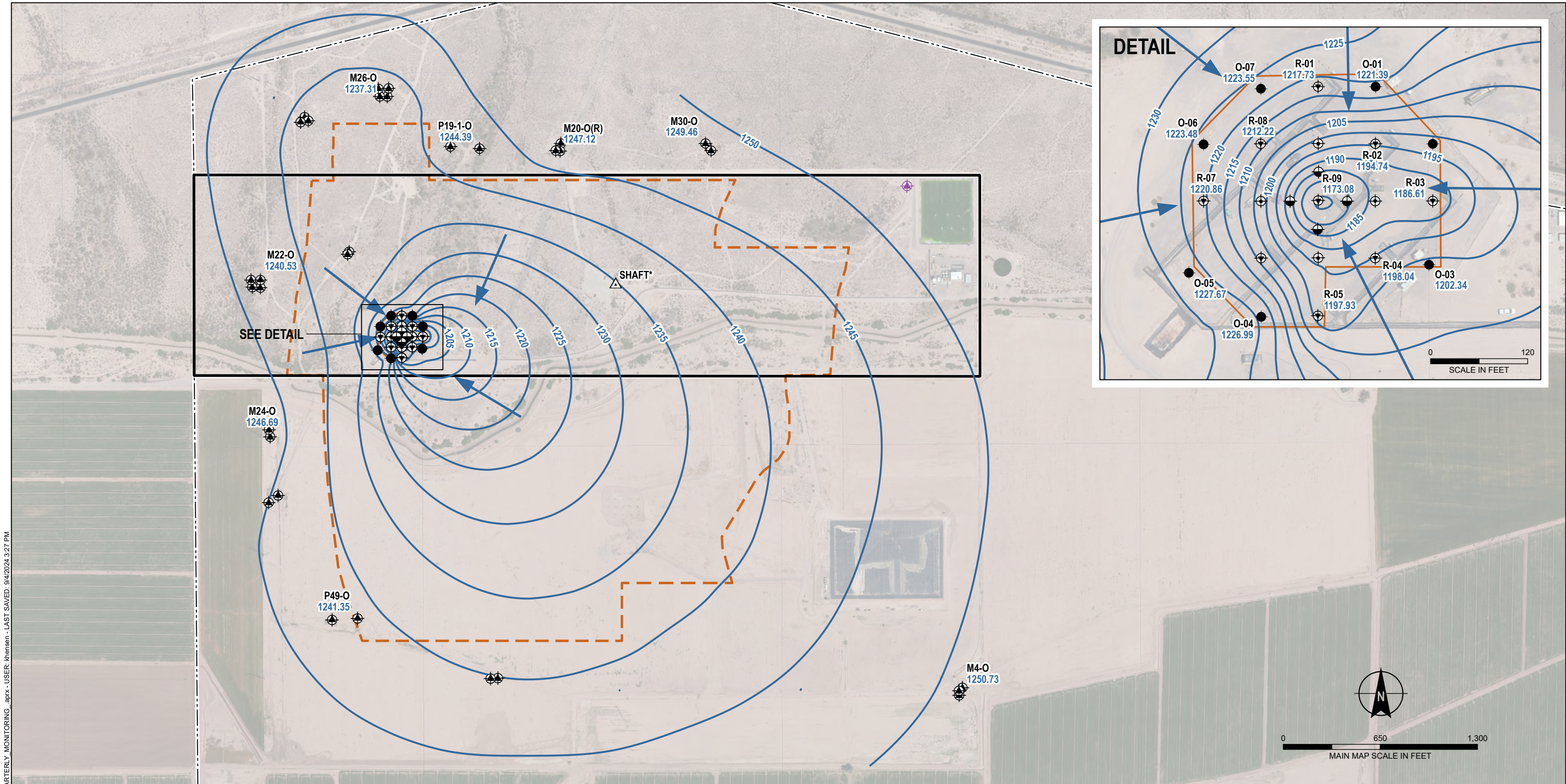
QUARTERLY CONTOUR MAP
JULY 2024

Florence
Copper

AUGUST 2024

FIGURE 1

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LEGEND

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|--|--|--|---|--|---|
| | OBSERVATION WELL | | APP POC WELL | | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
| | INJECTION WELL | | SHAFT | | IN-SITU COPPER RECOVERY (ISCR) WELL FIELD |
| | RECOVERY WELL | | GROUNDWATER ELEVATION CONTOUR, IN FEET, DASHED WHERE INFERRED | | PROPERTY BOUNDARY |
| | WESTBAY WELL | | GROUNDWATER FLOW DIRECTION | | |
| | APP AND UIC POINT OF COMPLIANCE (POC) WELL | | STATE LEASE BOUNDARY | | |

NOTES

1. APP PERMIT NO. 101704, LTF 102081
2. UIC PERMIT NO: R9UIC-AZ3-FY19-1
3. WATER LEVEL DATA WAS COLLECTED IN 19 AUGUST 2024.
4. * = VALUE CONSIDERED ANOMALOUS AND NOT USED IN CONTOURING
5. WELLS O-02 AND R-06 WERE OFF DUE TO RECONDITIONING.
6. WELLS WITH IDs AND GROUNDWATER ELEVATION WERE USED IN CONTOURING.
7. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE (UAV), FLORENCE COPPER, 7 FEBRUARY 2022

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FLORENCE, ARIZONA

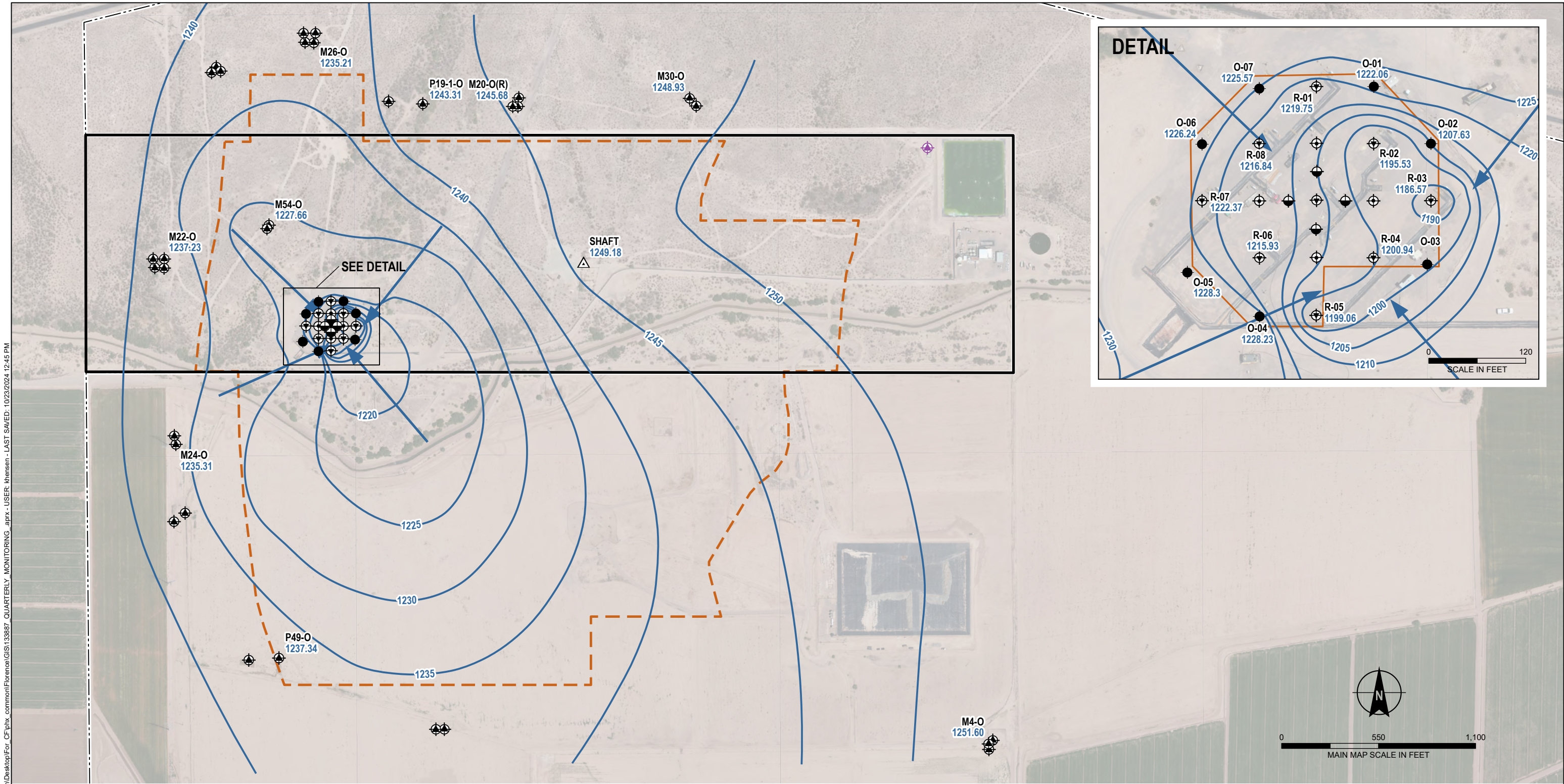
QUARTERLY CONTOUR MAP
AUGUST 2024

Florence
Copper

SEPTEMBER 2024

FIGURE 1

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LEGEND

- | | | | | | |
|--|--|--|---|--|---|
| | OBSERVATION WELL | | APP POC WELL | | PRODUCTION TEST FACILITY (PTF) WELL FIELD |
| | INJECTION WELL | | SHAFT | | IN-SITU COPPER RECOVERY (ISCR) WELL FIELD |
| | RECOVERY WELL | | GROUNDWATER ELEVATION CONTOUR, IN FEET, DASHED WHERE INFERRED | | PROPERTY BOUNDARY |
| | WESTBAY WELL | | GROUNDWATER FLOW DIRECTION | | |
| | APP AND UIC POINT OF COMPLIANCE (POC) WELL | | STATE LEASE BOUNDARY | | |

NOTES

1. APP PERMIT NO. 101704, LTF 88973
2. UIC PERMIT NO: R9UIC-AZ3-FY19-1
3. WATER LEVEL DATA WAS COLLECTED IN 17 SEPTEMBER 2024.
4. WELLS R-09 AND O-03 WERE OFF DUE TO RECONDITIONING.
5. WELLS WITH IDS AND GROUNDWATER ELEVATION WERE USED IN CONTOURING.
6. AERIAL IMAGERY SOURCE: UNMANNED AERIAL VEHICLE (UAV), FLORENCE COPPER, 7 FEBRUARY 2022

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ALDRICH

FLORENCE COPPER, LLC
FLORENCE, ARIZONA

QUARTERLY CONTOUR MAP
SEPTEMBER 2024

Florence
Copper

OCTOBER 2024

FIGURE 1

ATTACHMENT 2

Table and Graphs of Injected and Recovered Volumes

Q3 2024 DAILY INJECTION AND RECOVERY VOLUMES WITH PERCENT RECOVERY

PAGE 1 OF 3

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FLORENCE, ARIZONA

Table 1. July 2024 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Recovery/Injection Ratio	Percent Recovery (%)
7/1/2024	145,800	273,800	1.88	188
7/2/2024	75,100	220,900	2.94	294
7/3/2024	77,400	270,800	3.50	350
7/4/2024	77,800	199,800	2.57	257
7/5/2024	217,900	416,900	1.91	191
7/6/2024	249,600	461,000	1.85	185
7/7/2024	237,000	442,600	1.87	187
7/8/2024	218,800	428,200	1.96	196
7/9/2024	266,400	433,100	1.63	163
7/10/2024	242,100	410,000	1.69	169
7/11/2024	237,000	453,600	1.91	191
7/12/2024	230,700	401,900	1.74	174
7/13/2024	239,800	405,800	1.69	169
7/14/2024	231,800	407,100	1.76	176
7/15/2024	244,000	408,800	1.68	168
7/16/2024	256,400	439,500	1.71	171
7/17/2024	243,100	430,800	1.77	177
7/18/2024	223,900	413,200	1.85	185
7/19/2024	235,700	412,200	1.75	175
7/20/2024	249,400	441,600	1.77	177
7/21/2024	241,900	433,600	1.79	179
7/22/2024	217,200	393,600	1.81	181
7/23/2024	227,700	433,200	1.90	190
7/24/2024	231,300	436,000	1.88	188
7/25/2024	204,000	402,300	1.97	197
7/26/2024	198,900	398,000	2.00	200
7/27/2024	212,200	416,100	1.96	196
7/28/2024	241,900	455,300	1.88	188
7/29/2024	179,300	419,100	2.34	234
7/30/2024	214,200	416,800	1.95	195
7/31/2024	207,100	391,300	1.89	189
JUL Averages	212,110	398,932	1.96	196

JUL Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	147	277

Notes:

% = percent

GPM = gallons per minute

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 2. August 2024 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Recovery/Injection Ratio	Percent Recovery (%)
8/1/2024	254,300	477,200	1.88	188
8/2/2024	275,600	454,800	1.65	165
8/3/2024	291,700	480,900	1.65	165
8/4/2024	263,800	461,900	1.75	175
8/5/2024	237,700	422,100	1.78	178
8/6/2024	235,800	411,400	1.74	174
8/7/2024	177,900	325,000	1.83	183
8/8/2024	209,100	372,800	1.78	178
8/9/2024	225,700	404,400	1.79	179
8/10/2024	229,300	410,000	1.79	179
8/11/2024	243,300	431,600	1.77	177
8/12/2024	232,400	407,200	1.75	175
8/13/2024	168,500	309,100	1.83	183
8/14/2024	170,300	289,400	1.70	170
8/15/2024	236,900	425,300	1.80	180
8/16/2024	227,000	406,900	1.79	179
8/17/2024	245,200	432,000	1.76	176
8/18/2024	226,600	396,400	1.75	175
8/19/2024	256,100	434,500	1.70	170
8/20/2024	244,200	463,300	1.90	190
8/21/2024	230,000	417,300	1.81	181
8/22/2024	205,400	367,600	1.79	179
8/23/2024	222,600	391,400	1.76	176
8/24/2024	247,000	438,900	1.78	178
8/25/2024	248,500	432,900	1.74	174
8/26/2024	227,700	418,400	1.84	184
8/27/2024	233,300	435,100	1.86	186
8/28/2024	211,800	384,500	1.82	182
8/29/2024	174,500	324,500	1.86	186
8/30/2024	212,800	394,100	1.85	185
8/31/2024	247,700	454,700	1.84	184
AUG Averages	229,442	408,890	1.79	179

AUG Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	159	284

Notes:

% = percent

GPM = gallons per minute

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 3. September 2024 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Recovery/Injection Ratio	Percent Recovery (%)
9/1/2024	227,500	415,200	1.83	183
9/2/2024	240,300	444,500	1.85	185
9/3/2024	234,300	429,800	1.83	183
9/4/2024	223,500	428,700	1.92	192
9/5/2024	188,100	361,800	1.92	192
9/6/2024	195,500	374,900	1.92	192
9/7/2024	191,400	390,400	2.04	204
9/8/2024	143,500	273,700	1.91	191
9/9/2024	156,500	359,500	2.30	230
9/10/2024	140,100	315,100	2.25	225
9/11/2024	197,200	377,100	1.91	191
9/12/2024	221,200	425,100	1.92	192
9/13/2024	213,400	416,300	1.95	195
9/14/2024	216,500	422,000	1.95	195
9/15/2024	195,100	370,300	1.90	190
9/16/2024	145,800	280,200	1.92	192
9/17/2024	146,500	273,000	1.86	186
9/18/2024	34,800	416,600	11.97	1197
9/19/2024	0	567,200	---	---
9/20/2024	0	572,200	---	---
9/21/2024	0	569,500	---	---
9/22/2024	0	569,300	---	---
9/23/2024	0	557,500	---	---
9/24/2024	0	549,400	---	---
9/25/2024	0	550,000	---	---
9/26/2024	0	581,700	---	---
9/27/2024	0	574,900	---	---
9/28/2024	0	566,100	---	---
9/29/2024	0	561,800	---	---
9/30/2024	0	428,700	---	---
SEP Averages	110,373	447,417	2.51	251

SEP Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	77	311

Notes:

% = percent

GPM = gallons per minute

9/19 - 9/30/2024: No injection

Figure 1. Injection vs. Recovery Volumes - July 2024

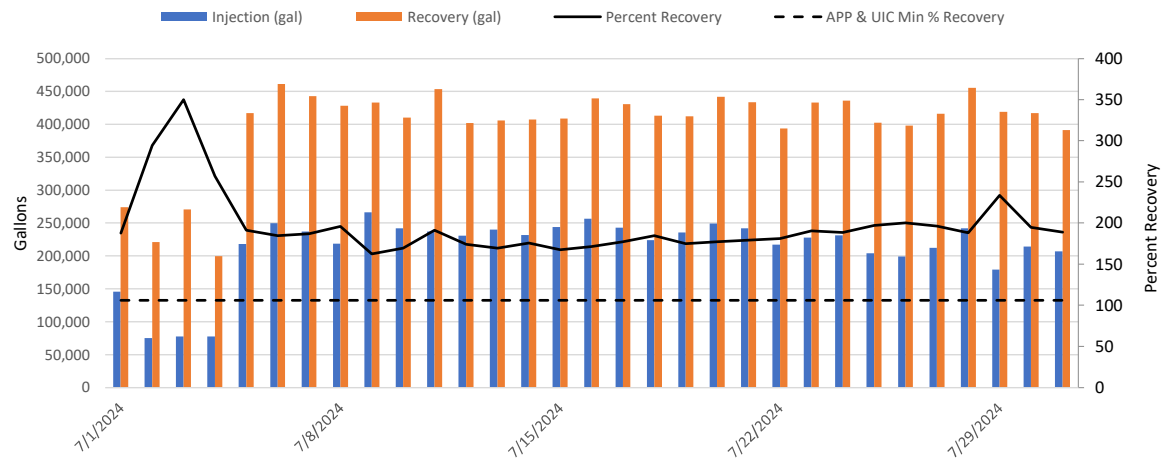


Figure 2. Injection vs. Recovery Volumes - August 2024

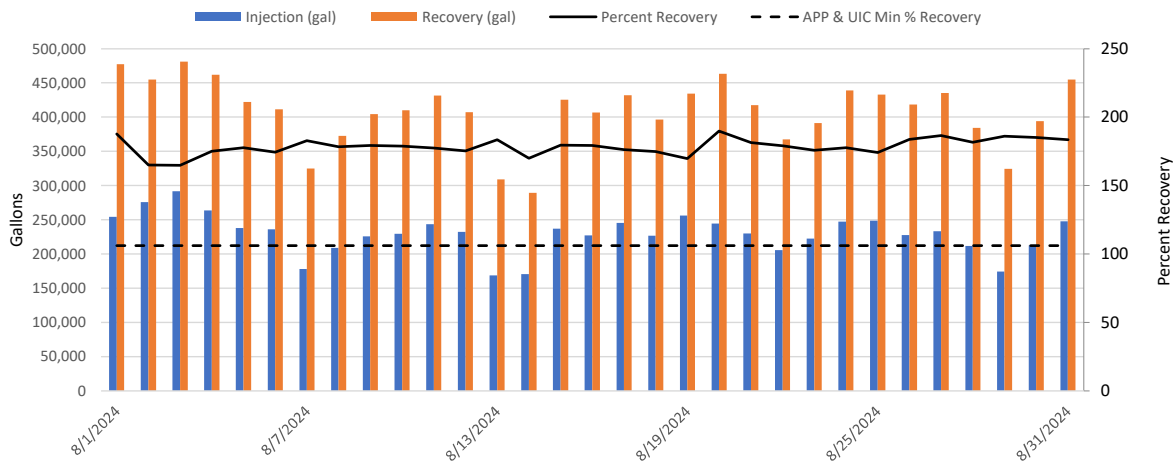
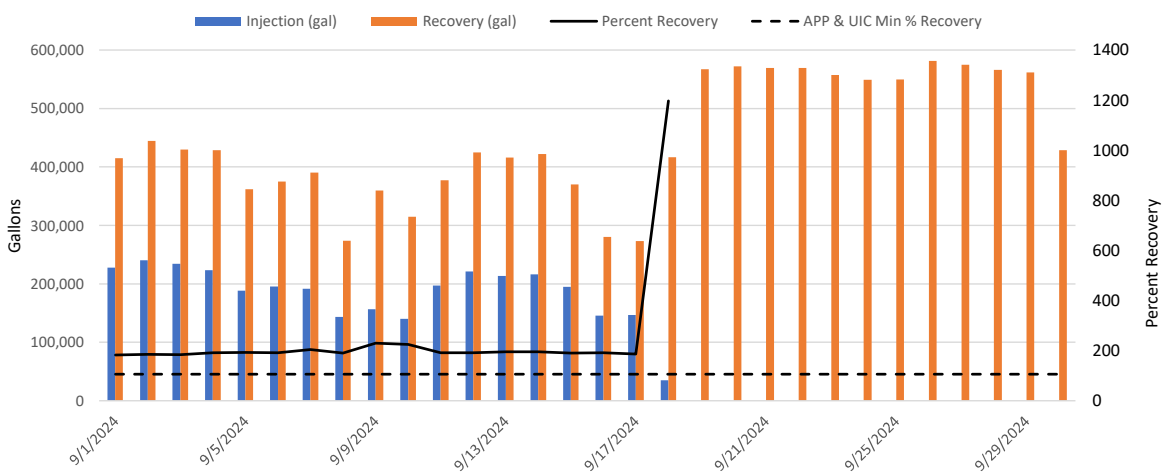


Figure 3. Injection vs. Recovery Volumes - September 2024



Note: No injection 9/19 - 9/30/2024

ATTACHMENT 3

Table and Graphs of the Well Head Measurements

Q3 2024 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 1. July 2024 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
7/1/2024	NA	NA	1219.78	1187.39	NA	1215.14	1180.79	1215.14	1215.11	1197.50	1215.11	1189.43	1213.14	1121.44	1213.14	1219.59	1215.79	1219.59	1218.06	1206.14	1218.06	1219.78	1196.31
7/2/2024	NA	NA	1222.66	1181.26	NA	1217.54	1164.78	1217.54	1216.47	1179.21	1216.47	1191.20	1216.55	1163.37	1216.55	1223.01	1217.37	1223.01	1221.03	1211.42	1221.03	1222.66	1218.85
7/3/2024	1203.78	NA	1215.70	1168.33	NA	1209.68	1168.83	1209.68	1207.98	1182.42	1207.98	1182.27	1210.50	1152.36	1210.50	1216.68	1210.46	1216.68	1214.29	1201.05	1214.29	1215.70	1210.91
7/4/2024	1213.64	NA	1224.07	1192.11	NA	1219.29	1189.54	1219.29	1219.03	1200.85	1219.03	1199.24	1218.50	1181.79	1218.50	1224.84	1220.49	1224.84	1222.79	1214.02	1222.79	1224.07	1221.28
7/5/2024	1210.64	NA	1220.76	1180.62	NA	1217.00	1200.10	1217.00	1212.11	1183.02	1212.11	1172.88	1214.12	1135.41	1214.12	1220.62	1213.40	1220.62	1218.99	1172.70	1218.99	1220.76	1158.33
7/6/2024	1204.29	NA	1216.49	1170.67	NA	1212.43	NA	1212.43	1207.72	1174.41	1207.72	1166.03	1210.37	1125.30	1210.37	1216.71	1209.06	1216.71	1214.86	1197.50	1214.86	1216.49	1154.45
7/7/2024	1205.67	NA	1216.89	1172.32	NA	1212.74	NA	1212.74	1208.15	1179.06	1208.15	1170.67	1210.68	1123.41	1210.68	1217.13	1210.36	1217.13	1215.38	1199.51	1215.38	1216.89	1154.92
7/8/2024	1204.54	NA	1214.74	1169.84	NA	1204.32	NA	1204.32	1203.94	1178.23	1203.94	1166.42	1209.37	1123.72	1209.37	1215.61	1208.69	1215.61	1213.41	1196.86	1213.41	1214.74	1157.14
7/9/2024	1206.67	NA	1218.19	1172.27	NA	1205.72	NA	1205.72	NA	1180.97	NA	1170.76	1213.58	1142.40	1213.58	1219.63	1213.06	1219.63	1217.18	1200.44	1217.18	1218.19	1159.94
7/10/2024	1208.72	NA	1218.73	1176.01	NA	1205.34	NA	1205.34	NA	1182.64	NA	1174.34	1213.94	1123.79	1213.94	1220.15	1214.88	1220.15	1217.82	1202.01	1217.82	1218.73	1161.92
7/11/2024	1201.32	NA	1213.47	1163.70	NA	1199.91	NA	1199.91	NA	1168.40	NA	1123.79	1209.44	1135.14	1209.44	1215.37	1207.13	1215.37	1212.52	1196.52	1212.52	1213.47	1153.33
7/12/2024	1206.51	NA	1218.46	1174.27	NA	1204.56	NA	1204.56	NA	1180.63	NA	1174.25	1214.25	1165.92	1214.25	1220.34	1213.40	1220.34	1217.69	1203.19	1217.69	1218.46	1166.34
7/13/2024	1211.23	NA	1221.93	1175.34	NA	1208.71	NA	1208.71	NA	1185.86	NA	1176.43	1217.37	1168.50	1217.37	1223.43	1216.43	1223.43	1220.91	1205.34	1220.91	1221.93	1172.85
7/14/2024	1211.36	NA	1221.87	1175.29	NA	1208.30	NA	1208.30	NA	1189.42	NA	1182.44	1217.34	1148.07	1217.34	1223.36	1216.59	1223.36	1220.86	1205.70	1220.86	1221.87	1167.81
7/15/2024	1207.96	NA	1220.06	1173.88	NA	1206.25	NA	1206.25	NA	1187.18	NA	1175.88	1216.34	1167.47	1216.34	1222.19	1214.86	1222.19	1219.29	1203.59	1219.29	1220.06	1167.64
7/16/2024	1208.78	NA	1220.33	1171.47	NA	1206.20	NA	1206.20	NA	1180.92	NA	1171.74	1216.02	1144.92	1216.02	1222.06	1214.44	1222.06	1219.36	1202.94	1219.36	1220.33	1163.37
7/17/2024	1207.57	NA	1219.39	1172.81	NA	1205.37	NA	1205.37	NA	1179.95	NA	1171.24	1215.05	1127.71	1215.05	1221.28	1215.31	1221.28	1218.67	1202.38	1218.67	1219.39	1163.51
7/18/2024	1210.48	NA	1222.10	1180.61	NA	1206.64	1164.62	1206.64	NA	1185.17	NA	1178.39	1217.76	1142.70	1217.76	1224.51	1219.07	1224.51	1221.92	1206.46	1221.92	1222.10	1167.01
7/19/2024	1211.06	NA	1222.47	1178.55	NA	1206.37	1180.23	1206.37	1207.01	1181.87	1207.01	1178.98	1218.23	1154.87	1218.23	1225.21	NA	1225.21	1222.66	1206.25	1222.66	1222.47	1163.95
7/20/2024	1205.86	NA	1218.11	1169.97	NA	1202.72	1167.71	1202.72	1202.44	1174.09	1202.44	1168.54	1214.35	1146.54	1214.35	1221.39	NA	1221.39	1218.73	1200.79	1218.73	1218.11	1157.37
7/21/2024	1205.63	NA	1217.42	1168.81	NA	1201.71	1168.11	1201.71	1201.78	1175.53	1201.78	1169.76	1213.24	1139.48	1213.24	1220.40	NA	1220.40	1217.94	1201.25	1217.94	1217.42	1156.52
7/22/2024	1205.39	NA	1217.29	1169.83	NA	1200.52	1171.26	1200.52	1201.32	1172.36	1201.32	1172.12	1214.49	1139.31	1214.49	1221.42	NA	1221.42	1218.16	1200.96	1218.16	1217.29	1156.24
7/23/2024	1203.37	NA	1215.92	1159.55	NA	1200.57	1183.52	1200.57	1200.34	1169.46	1200.34	1153.58	1213.10	NA	1213.10	1220.06	NA	1220.06	1216.62	1193.76	1216.62	1215.92	1147.17
7/24/2024	1196.92	NA	1211.20	1153.49	NA	1196.53	1162.37	1196.53	1194.93	1173.59	1194.93	1151.08	1209.26	NA	1209.26	1215.85	NA	1215.85	1212.01	1189.51	1212.01	1211.20	1145.68
7/25/2024	1198.07	NA	1210.36	1161.09	NA	1195.10	1162.69	1195.10	1193.35	1160.46	1193.35	1160.25	1208.68	NA	1208.68	1215.16	NA	1215.16	1211.26	1191.79	1211.26	1210.36	1147.74
7/26/2024	1198.07	NA	1210.99	1162.01	NA	1195.59	1161.34	1195.59	1193.98	1165.37	1193.98	1162.41	1209.26	NA	1209.26	1215.76	NA	1215.76	1211.87	1191.66	1211.87	1210.99	1146.72
7/27/2024	1201.20	NA	1214.59	1161.75	NA	1199.40	1164.76	1199.40	1198.26	1169.15	1198.26	1160.01	1212.49	NA	1212.49	1219.29	NA	1219.29	1215.63	1193.41	1215.63	1214.59	1153.53
7/28/2024	1201.94	NA	1214.64	1154.85	NA	1204.28	1144.79	1204.28	1196.77	1162.20	1196.77	1155.84	1212.24	NA	1212.24	1219.19	NA	1219.19	1215.56	1191.65	1215.56	1214.64	1140.76
7/29/2024	1197.43	NA	1209.26	1156.67	NA	1201.24	1155.45	1201.24	1188.08	1150.40	1188.08	1154.81	1206.50	NA	1206.50	1213.46	NA	1213.46	1209.96	1188.55	1209.96	1209.26	1138.46
7/30/2024	1200.64	NA	1212.80	1156.67	NA	1204.91	1154.45	1204.91	1192.10	1171.62	1192.10	1156.79	1209.97	NA	1209.97	1216.69	NA	1216.69	1213.28	1192.36	1213.28	1212.80	1148.96
7/31/2024	1205.31	NA	1216.47	1167.08	NA	1208.58	1167.33	1208.58	1193.86	1171.66	1193.86	1165.10	1212.31	NA	1212.31	1219.32	NA	1219.32	1216.45	1198.21	1216.45	1216.47	1157.08

Notes:

- All measurements in elevation above mean sea level.
- NA or NM = Not measured or otherwise not available
- No data were available for the following dates/wells:
 - R-01 reconditioning 7/1/2024 - 7/2/2024
 - O-01 reconditioning 7/1/2024 - 7/31/2024.
 - R-03 reconditioning 7/6/2024 - 7/17/2024
 - O-03 reconditioning 7/9/2024 - 7/18/2024
 - R-06 reconditioning 7/23/2024 - 7/31/2024
 - R-07 reconditioning 7/19/2024 - 7/31/2024

Q3 2024 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 2. August 2024 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
8/1/2024	1203.30	NA	1215.33	1162.21	NA	1207.84	1156.04	1207.84	1192.47	1157.04	1192.47	1160.24	1211.52	NA	1211.52	1217.95	1207.50	1217.95	1214.74	1193.94	1214.74	1215.33	1152.78
8/2/2024	1212.26	NA	1221.66	1181.77	NA	1214.68	1174.81	1214.68	1200.34	1157.44	1200.34	1183.41	1217.78	NA	1217.78	1223.70	1213.92	1223.70	1220.69	1201.60	1220.69	1221.66	1164.22
8/3/2024	1208.30	NA	1219.01	1171.10	NA	NA	1168.52	NA	1198.99	1154.82	1198.99	1170.21	1215.81	NA	1215.81	1221.68	1211.67	1221.68	1218.49	1198.95	1218.49	1219.01	1160.75
8/4/2024	1205.34	NA	1217.16	1171.30	NA	NA	1169.03	NA	1198.65	1164.01	1198.65	1169.62	1214.64	NA	1214.64	1220.41	1211.13	1220.41	1216.89	1197.12	1216.89	1217.16	1158.12
8/5/2024	1208.38	NA	1219.04	1176.40	NA	NA	1170.72	NA	1200.19	1178.48	1200.19	1175.04	1215.71	NA	1215.71	1221.72	1213.41	1221.72	1218.61	1202.84	1218.61	1219.04	1159.57
8/6/2024	1209.13	NA	1220.79	1179.18	NA	NA	1171.85	NA	1202.40	1182.83	1202.40	1176.56	1217.39	NA	1217.39	1223.51	1215.64	1223.51	1220.52	1206.14	1220.52	1220.79	1164.46
8/7/2024	1213.51	1220.57	1223.60	1189.97	1220.57	NA	1186.06	NA	1205.54	1192.11	1205.54	1186.05	1219.60	NA	1219.60	1225.97	1218.77	1225.97	1223.29	1209.24	1223.29	1223.60	1171.43
8/8/2024	1211.15	1218.42	1221.43	1185.72	1218.42	NA	1180.51	NA	1202.75	1185.33	1202.75	1183.26	1217.45	NA	1217.45	1223.91	1217.09	1223.91	1221.22	1208.69	1221.22	1221.43	1170.89
8/9/2024	1207.27	1214.23	1217.86	1177.68	1214.23	NA	1171.61	NA	1198.53	1180.29	1198.53	1176.64	1213.55	NA	1213.55	1219.84	1212.65	1219.84	1217.20	1203.24	1217.20	1217.86	1158.92
8/10/2024	1210.48	1217.44	1220.77	1178.44	1217.44	NA	1172.56	NA	1201.31	1180.18	1201.31	1178.28	1217.36	NA	1217.36	1223.65	1217.43	1223.65	1220.62	1205.24	1220.62	1220.77	1160.71
8/11/2024	1210.36	1217.35	1220.57	1177.44	1217.35	NA	1172.02	NA	1201.71	1180.99	1201.71	1177.82	1217.47	NA	1217.47	1223.44	1215.49	1223.44	1220.20	1205.05	1220.20	1220.57	1155.51
8/12/2024	1209.20	1215.58	1218.99	1178.03	1215.58	NA	1172.07	NA	1200.00	1179.72	1200.00	1177.71	1214.98	NA	1214.98	1220.97	1212.92	1220.97	1218.17	1203.71	1218.17	1218.99	1161.01
8/13/2024	1215.59	1221.46	1224.35	1195.69	1221.46	NA	1193.06	NA	1206.98	1195.94	1206.98	1194.73	1220.10	NA	1220.10	1226.28	1220.20	1226.28	1223.61	1213.76	1223.61	1224.35	1178.78
8/14/2024	1224.00	1230.05	1232.27	1207.74	1230.05	NA	1202.86	NA	1216.28	1208.36	1216.28	1205.07	1227.60	NA	1227.60	1234.06	1228.72	1234.06	1231.61	1223.13	1231.61	1232.27	1189.31
8/15/2024	1215.22	1222.17	1225.23	1182.72	1222.17	NA	1176.12	NA	1207.92	1184.98	1207.92	1183.25	1221.54	NA	1221.54	1227.70	1219.60	1227.70	1224.64	1209.10	1224.64	1225.23	1161.40
8/16/2024	1215.69	1221.75	1225.26	1183.54	1221.75	NA	1177.91	NA	1204.51	1187.52	1204.51	1183.10	1221.09	NA	1221.09	1227.33	1219.67	1227.33	1224.36	1209.42	1224.36	1225.26	1165.96
8/17/2024	1212.26	1220.21	1223.48	1179.38	1220.21	NA	1174.44	NA	1205.13	1182.79	1205.13	1179.49	1220.15	NA	1220.15	1226.21	1218.27	1226.21	1223.00	1207.31	1223.00	1223.48	1162.53
8/18/2024	1214.62	1221.81	1224.60	1184.07	1221.81	NA	1179.27	NA	1207.42	1185.72	1207.42	1183.98	1221.33	NA	1221.33	1227.44	1220.59	1227.44	1224.34	1209.56	1224.34	1224.60	1168.17
8/19/2024	1213.22	1221.08	1224.25	1179.21	1221.08	NA	1173.81	NA	1207.22	1194.11	1207.22	1179.63	1220.83	NA	1220.83	1226.83	1218.44	1226.83	1223.70	1207.77	1223.70	1224.25	1159.30
8/20/2024	1213.90	1219.06	1222.79	1168.40	1219.06	1204.87	1160.18	1204.87	1200.69	1188.24	1200.69	1172.69	1216.66	1201.97	1216.66	1223.00	1213.59	1223.00	1221.08	1206.93	1221.08	1222.79	1155.42
8/21/2024	NA	1222.09	1227.55	1182.57	1222.09	1210.32	1175.28	1210.32	1201.95	1188.88	1201.95	1179.56	1218.47	1207.82	1218.47	1225.14	1217.89	1225.14	1223.81	NA	1223.81	1227.55	1160.19
8/22/2024	NA	1224.90	1230.74	1190.77	1224.90	1212.43	1185.51	1212.43	1205.64	1189.39	1205.64	1188.94	1221.02	1213.38	1221.02	1227.89	1221.68	1227.89	1226.63	NA	1226.63	1230.74	1175.25
8/23/2024	NA	1222.40	1228.34	1184.06	1222.40	1209.84	1179.17	1209.84	1203.68	1185.69	1203.68	1183.10	1218.39	1209.35	1218.39	1225.27	1218.52	1225.27	1224.15	NA	1224.15	1228.34	1169.21
8/24/2024	NA	1220.86	1227.13	1177.30	1220.86	1207.97	1168.70	1207.97	1201.50	1176.52	1201.50	1174.14	1216.39	1205.44	1216.39	1223.38	1216.02	1223.38	1222.55	NA	1222.55	1227.13	1160.14
8/25/2024	NA	1221.25	1227.47	1177.84	1221.25	1208.24	1169.95	1208.24	1203.18	1179.92	1203.18	1176.71	1217.02	1206.09	1217.02	1223.87	1216.75	1223.87	1222.89	NA	1222.89	1227.47	1159.32
8/26/2024	NA	1218.98	1225.55	1175.83	1218.98	1206.70	1176.73	1206.70	1202.89	1179.35	1202.89	1182.31	1216.21	1204.88	1216.21	1222.81	1215.97	1222.81	1221.26	NA	1221.26	1225.55	1152.45
8/27/2024	NA	1217.26	1223.99	1175.83	1217.26	1204.95	1164.66	1204.95	1200.04	1175.65	1200.04	1172.37	1214.35	1202.16	1214.35	1220.92	1213.10	1220.92	1219.54	NA	1219.54	1223.99	1155.91
8/28/2024	NA	1219.62	1225.83	1179.87	1219.62	1210.15	1174.60	1210.15	1204.36	1183.00	1204.36	1179.23	1216.55	1206.53	1216.55	1223.05	1215.90	1223.05	1221.58	NA	1221.58	1225.83	1163.27
8/29/2024	NA	1225.97	1231.03	1188.52	1225.97	1222.10	1183.28	1222.10	1212.86	1190.78	1212.86	1185.90	1220.83	1211.85	1220.83	1227.58	1220.94	1227.58	1226.42	NA	1226.42	1231.03	1179.66
8/30/2024	NA	1224.03	1229.21	1180.09	1224.03	1220.22	1170.82	1220.22	1210.24	1182.26	1210.24	1177.59	1218.99	1206.63	1218.99	1225.70	1217.76	1225.70	1224.47	NA	1224.47	1229.21	1162.47
8/31/2024	NA	1218.61	1224.37	1166.25	1218.61	1214.35	1153.64	1214.35	1203.74	1169.06	1203.74	1164.54	1214.15	1197.92	1214.15	1220.72	1212.18	1220.72	1219.49	NA	1219.49	1224.37	1147.58

Notes:

- All measurements in elevation above mean sea level.
- NA or NM = Not measured or otherwise not available
- No data were available for the following dates/wells:
 - R-01 reconditioning 8/21/2024 - 8/31/2024
 - O-01 reconditioning 8/1/2024 - 8/6/2024
 - O-02 reconditioning 8/3/2024 to 8/19/2024.
 - R-06 reconditioning 8/1/2024 - 8/19/2024
 - R-08 reconditioning 8/21/2024 - 8/31/2024

Q3 2024 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS
OBSERVATION AND RECOVERY WELLS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 3. September 2024 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
9/1/2024	NA	1221.10	1226.81	1171.75	1221.10	1217.12	1161.96	1217.12	1206.95	1176.91	1206.95	1170.56	1215.89	1200.04	1215.89	1222.59	1214.67	1222.59	1221.63	NA	1221.63	1226.81	1150.93
9/2/2024	NA	1218.21	1224.41	1166.58	1218.21	1214.28	1169.18	1214.28	1203.58	1171.37	1203.58	1165.02	1213.03	1198.16	1213.03	1219.73	1212.23	1219.73	1218.86	NA	1218.86	1224.41	1144.45
9/3/2024	NA	1217.15	1223.33	1169.42	1217.15	1213.09	#REF!	1213.09	1202.46	1172.49	1202.46	1166.94	1212.26	1199.24	1212.26	1218.86	1210.72	1218.86	1217.81	NA	1217.81	1223.33	1148.29
9/4/2024	1203.43	1215.26	1221.95	1170.56	1215.26	1211.34	1159.92	1211.34	1202.61	1175.50	1202.61	1170.78	1212.32	1200.19	1212.32	1218.68	1210.70	1218.68	1217.15	NA	1217.15	1221.95	1154.30
9/5/2024	1214.04	1218.92	1225.66	1177.02	1218.92	1207.65	1167.51	1207.65	1207.91	1182.31	1207.91	1176.77	1216.80	1206.22	1216.80	1223.16	1215.29	1223.16	1221.36	1202.42	1221.36	1225.66	NA
9/6/2024	1214.09	1217.72	1224.32	1176.07	1217.72	1203.55	1166.83	1203.55	NA	1181.66	NA	1175.63	1215.39	1204.88	1215.39	1221.81	1214.10	1221.81	1220.13	1205.67	1220.13	1224.32	NA
9/7/2024	1209.37	1214.45	1221.10	1172.01	1214.45	1201.67	1158.08	1201.67	NA	1174.87	NA	1174.84	1212.94	1200.25	1212.94	1219.37	1209.65	1219.37	1217.41	1198.10	1217.41	1221.10	NA
9/8/2024	1218.63	1221.93	1228.57	1193.63	1221.93	1203.83	1190.34	1203.83	NA	1198.74	NA	1194.40	1220.89	1214.20	1220.89	1227.65	NA	1227.65	1225.69	1211.85	1225.69	1228.57	NA
9/9/2024	1212.32	1216.07	1222.95	1174.17	1216.07	1201.95	1167.90	1201.95	NA	1180.89	NA	1177.55	1215.30	1204.58	1215.30	1221.59	1207.48	1221.59	1219.47	1204.37	1219.47	1222.95	NA
9/10/2024	1210.49	1213.98	1221.21	1176.06	1213.98	1197.99	1174.65	1197.99	NA	1183.78	NA	1177.37	1214.60	1205.34	1214.60	1220.18	1209.32	1220.18	1217.54	1204.41	1217.54	1221.21	1216.74
9/11/2024	1214.26	1217.99	1224.73	1174.49	1217.99	1204.22	1166.78	1204.22	NA	1179.99	NA	1167.76	1216.62	1204.87	1216.62	1222.37	1210.81	1222.37	1220.45	1204.87	1220.45	1224.73	1218.87
9/12/2024	1208.31	1213.55	1220.51	1165.99	1213.55	1202.09	1154.92	1202.09	NA	1170.19	NA	1166.42	1212.35	1198.78	1212.35	1218.04	1205.77	1218.04	1216.19	1198.93	1216.19	1220.51	1216.69
9/13/2024	1210.52	1216.07	1222.71	1169.22	1216.07	1203.83	1160.63	1203.83	NA	1173.74	NA	1169.91	1214.69	1201.20	1214.69	1220.50	1209.04	1220.50	1218.80	1202.28	1218.80	1222.71	1221.78
9/14/2024	1208.73	1214.12	1220.57	1167.43	1214.12	1202.55	1155.06	1202.55	NA	1171.22	NA	1168.14	1213.18	1198.05	1213.18	1218.69	1207.43	1218.69	1216.20	1198.30	1216.20	1220.57	1219.83
9/15/2024	1211.57	1215.78	1222.66	1175.00	1215.78	1202.10	1166.69	1202.10	NA	1178.12	NA	1175.27	1215.25	1202.99	1215.25	1220.80	1210.86	1220.80	1218.98	1203.82	1218.98	1222.66	1221.42
9/16/2024	1217.34	1220.34	1227.07	1192.86	1220.34	1204.18	1189.54	1204.18	NA	1196.96	NA	1195.78	1220.08	1214.40	1220.08	1225.53	1216.23	1225.53	1223.35	1214.22	1223.35	1227.07	1224.30
9/17/2024	1219.34	1222.55	1229.27	1194.23	1222.55	1206.32	1190.65	1206.32	NA	1198.08	NA	1197.22	1222.12	1216.30	1222.12	1227.65	1218.42	1227.65	1225.57	1216.41	1225.57	1229.27	1226.63
9/18/2024	1194.10	1197.34	1206.83	1149.73	1197.34	1185.00	1138.84	1185.00	NA	1153.63	NA	1152.59	1201.47	1183.69	1201.47	1206.66	1193.27	1206.66	1203.07	1183.00	1203.07	1206.83	1198.13
9/19/2024	1166.01	1167.04	1178.92	1118.76	1167.04	1160.10	1106.30	1160.10	NA	1117.16	NA	1122.48	1176.91	1150.76	1176.91	1181.19	1164.62	1181.19	1175.31	1149.83	1175.31	1178.92	1090.61
9/20/2024	1154.78	1159.22	1171.63	1110.13	1159.22	1154.44	1103.48	1154.44	NA	1110.69	NA	1120.98	1171.26	1146.14	1171.26	1175.22	1159.12	1175.22	1168.55	1143.70	1168.55	1171.63	1066.54
9/21/2024	1155.83	1160.96	1173.76	1111.65	1160.96	1152.02	1105.92	1152.02	NA	1112.74	NA	1124.03	1173.41	1149.13	1173.41	1177.49	1161.80	1177.49	1170.95	1146.66	1170.95	1173.76	1075.63
9/22/2024	1157.83	1162.39	1175.12	1112.68	1162.39	1153.98	1106.91	1153.98	NA	1113.43	NA	1125.06	1174.71	1150.45	1174.71	1178.98	1164.04	1178.98	1172.60	1148.20	1172.60	1175.12	1073.61
9/23/2024	1162.75	1164.50	1176.28	1114.97	1164.50	1161.40	1109.29	1161.40	NA	1115.02	NA	1126.55	1175.78	1151.69	1175.78	1180.05	1164.71	1180.05	1173.72	1150.13	1173.72	1176.28	1074.95
9/24/2024	1163.57	1165.24	1176.79	1115.27	1165.24	1163.49	1109.62	1163.49	NA	1114.92	NA	1126.71	1175.97	1152.17	1175.97	1180.25	1165.21	1180.25	1174.03	1149.85	1174.03	1176.79	1074.97
9/25/2024	1161.37	1164.14	1175.62	1114.14	1164.14	1163.60	1108.97	1163.60	NA	1114.09	NA	1126.10	1175.28	1151.42	1175.28	1179.45	1164.81	1179.45	1173.07	1148.75	1173.07	1175.62	1073.94
9/26/2024	1159.97	1161.49	1170.65	1110.18	1161.49	1160.37	1106.67	1160.37	1152.67	1113.26	1152.67	1124.26	1173.59	1149.20	1173.59	1177.71	1164.96	1177.71	1171.11	1145.66	1171.11	1170.65	1069.98
9/27/2024	1156.66	1159.49	1171.96	1104.04	1159.49	1157.08	1091.72	1157.08	1144.99	1100.93	1144.99	1112.10	1172.55	1146.09	1172.55	1177.85	1164.71	1177.85	1171.54	1144.47	1171.54	1171.96	1068.44
9/28/2024	1156.45	1159.10	1172.43	1104.77	1159.10	1156.40	1090.01	1156.40	1143.57	1099.16	1143.57	1110.03	1171.86	1145.37	1171.86	1176.08	NA	1176.08	1171.07	1144.83	1171.07	1172.43	1068.12
9/29/2024	1159.32	1161.00	1174.14	1106.46	1161.00	1158.20	1091.61	1158.20	1145.56	1100.43	1145.56	1111.35	1172.91	1146.73	1172.91	1178.42	NA	1178.42	1172.57	1146.56	1172.57	1174.14	1069.56
9/30/2024	1168.45	1171.78	1178.23	1121.51	1171.78	1174.55	1109.68	1174.55	1158.11	1119.06	1158.11	1132.82	1186.51	1154.02	1186.51	1193.93	NA	1193.93	1181.37	1152.10	1181.37	1178.23	1231.76

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 reconditioning 9/1/2024 - 9/3/2024

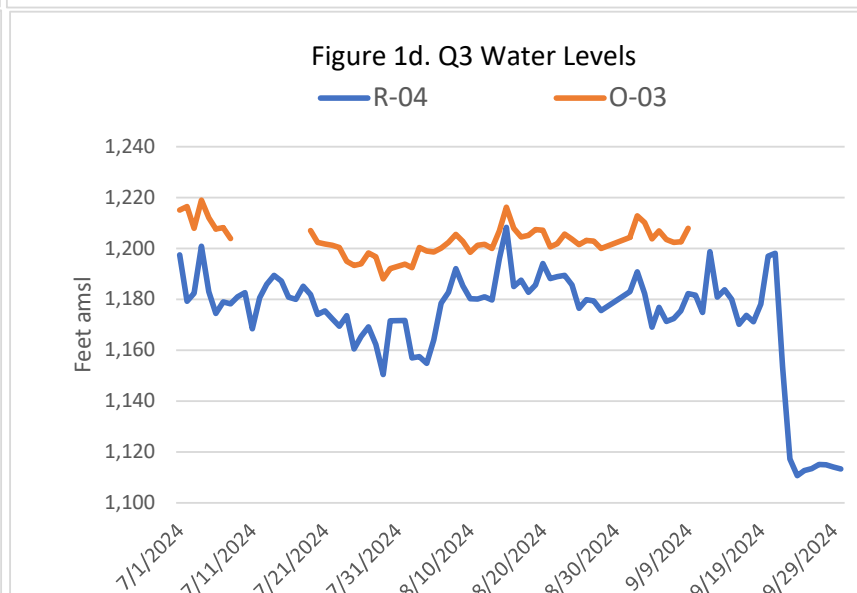
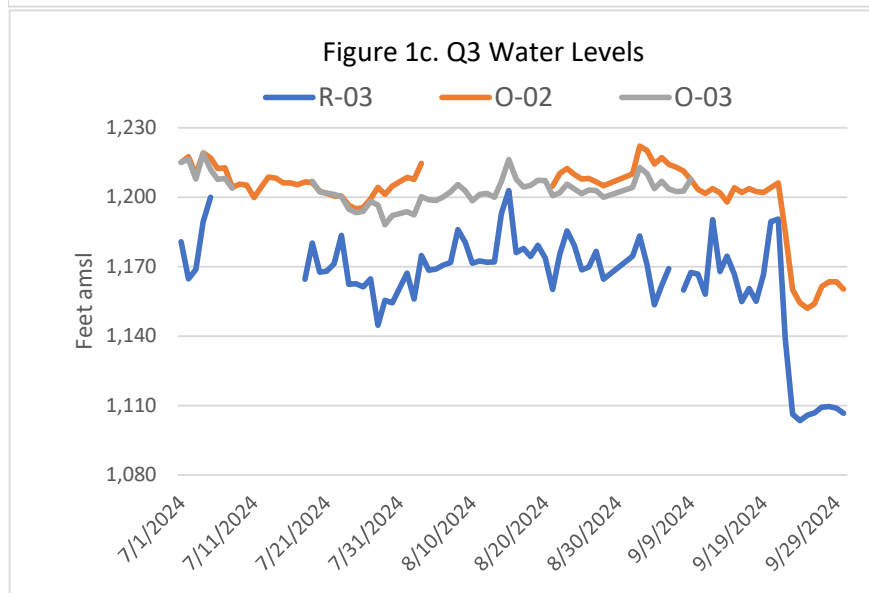
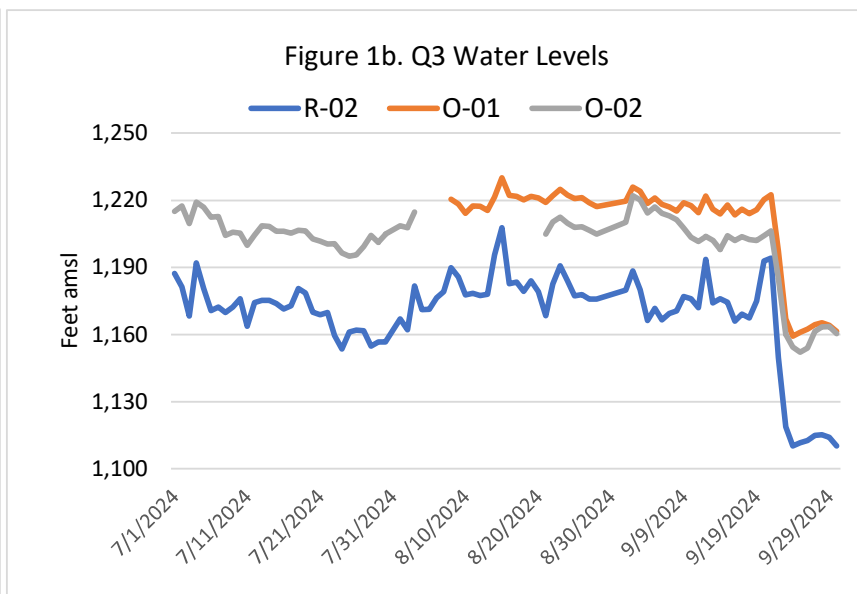
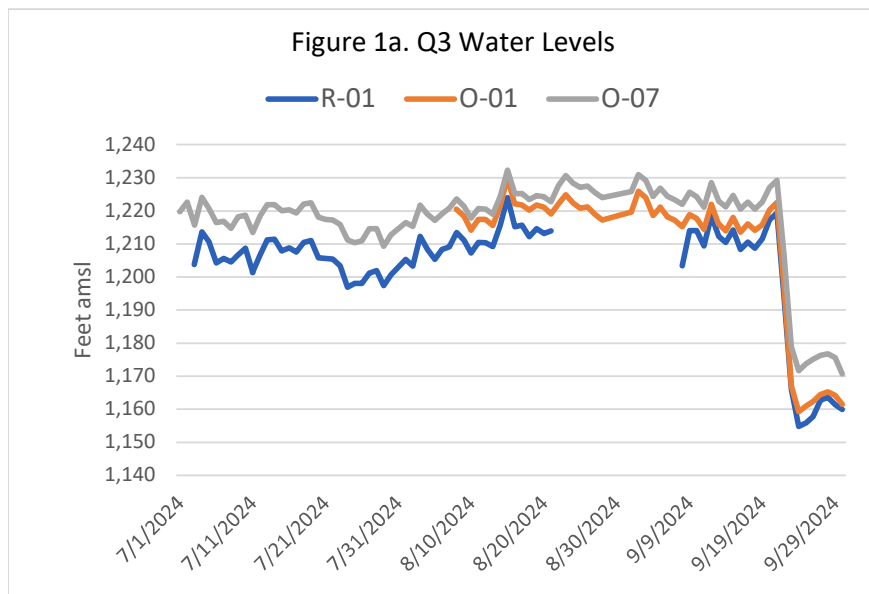
O-03 reconditioning 9/6/2024 - 9/25/2024

R-07 reconditioning 9/8/2024 and 9/28/2024 - 9/30/2024

R-08 reconditioning 9/1/2024 - 9/4/2024

R-09 reconditioning 9/5/2024 - 9/9/2024

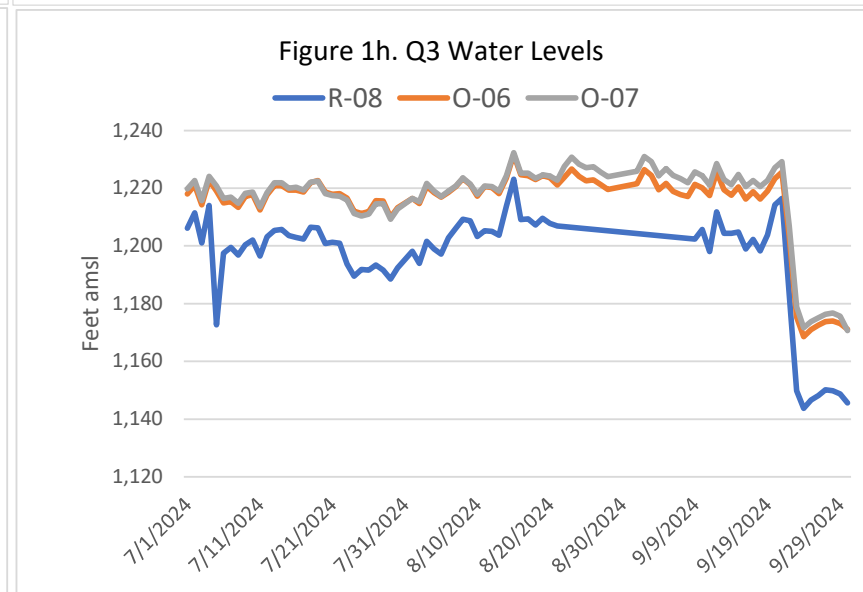
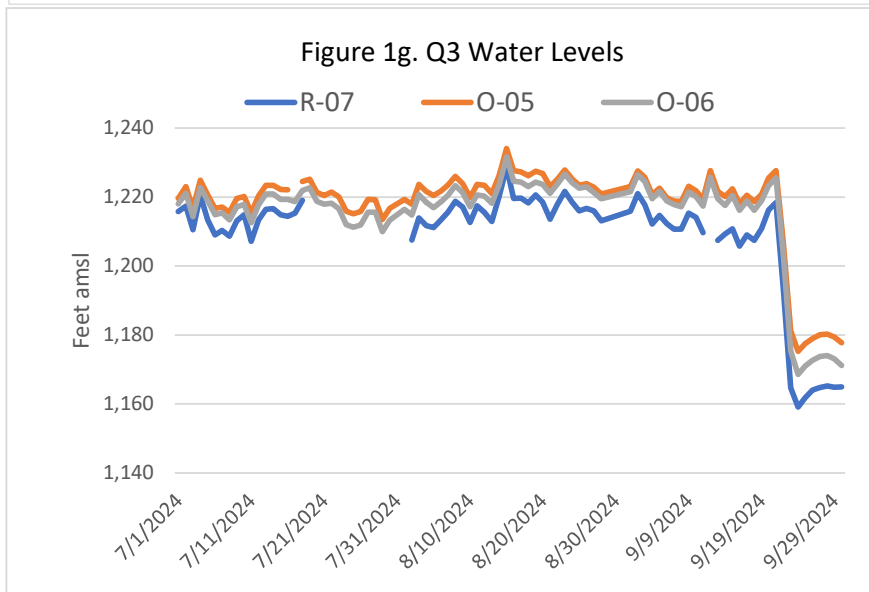
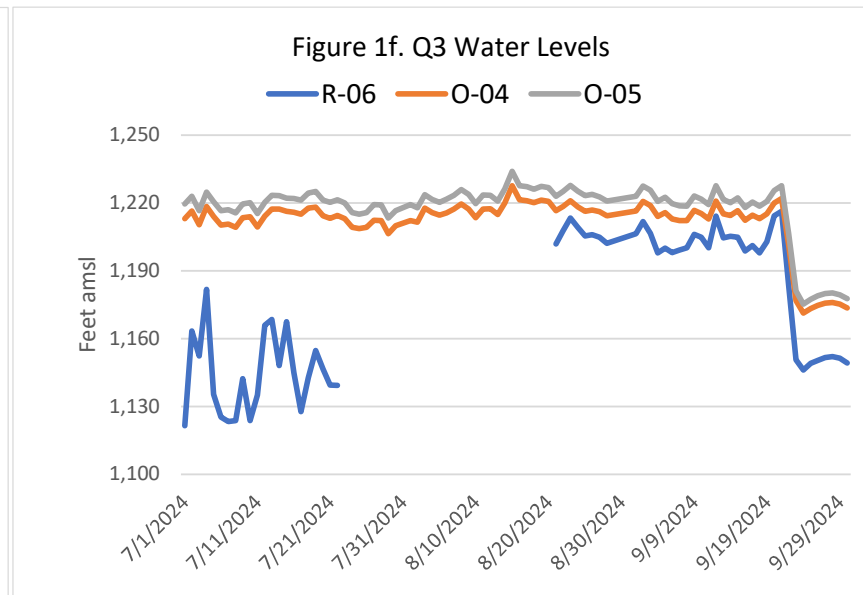
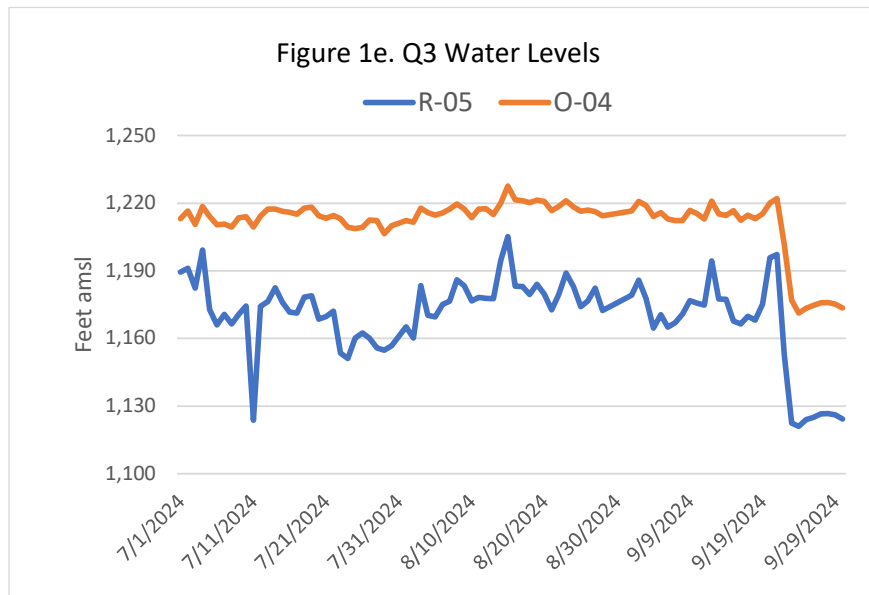
Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1i. Hydraulic Gradient for Wells Paired with R-01

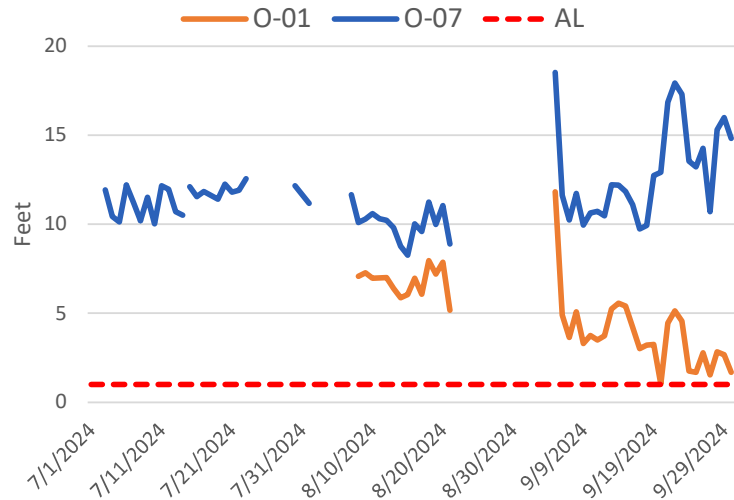


Figure 1j. Hydraulic Gradient for Wells Paired with R-02

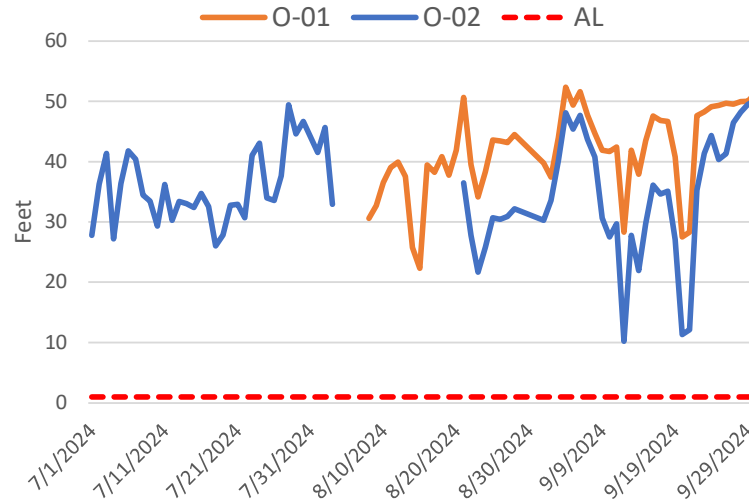


Figure 1k. Hydraulic Gradient for Wells Paired with R-03

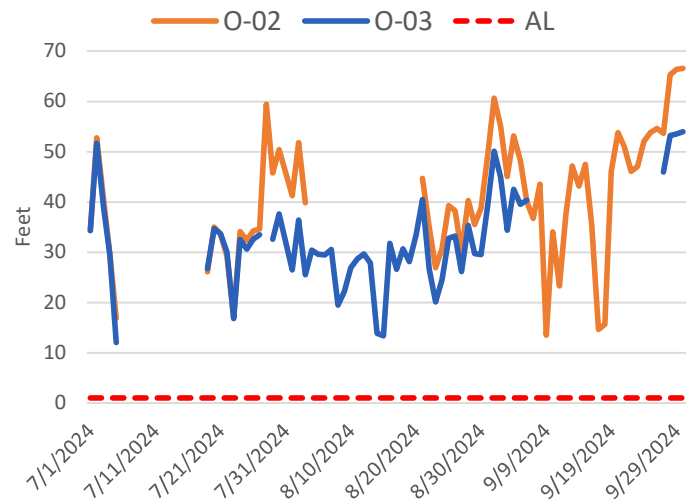
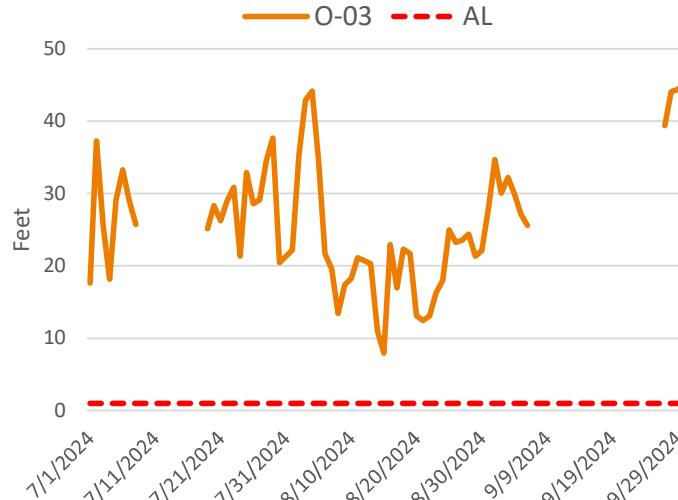


Figure 1l. Hydraulic Gradient for Wells Paired with R-04



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1m. Hydraulic Gradient for Wells Paired with R-05

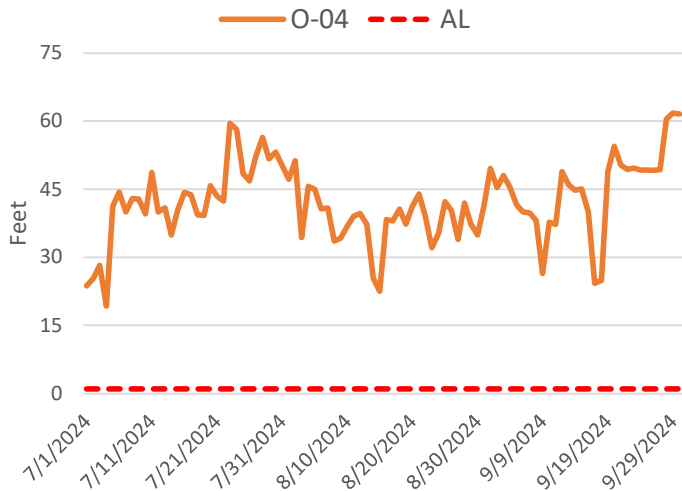


Figure 1n. Hydraulic Gradient for Wells Paired with R-06

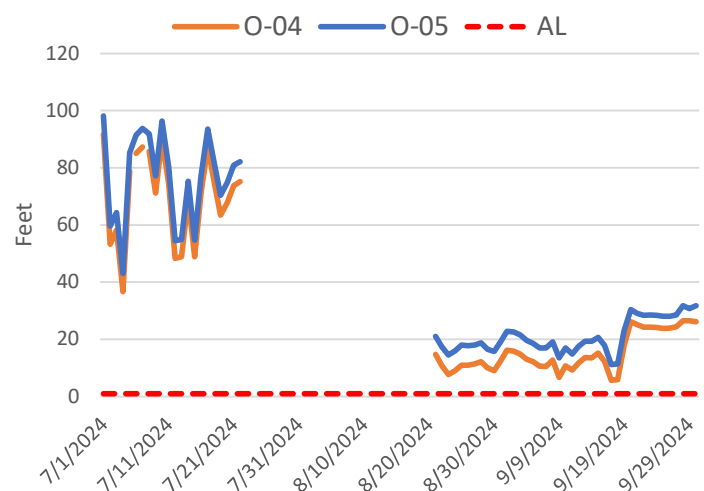


Figure 1o. Hydraulic Gradient for Wells Paired with R-07

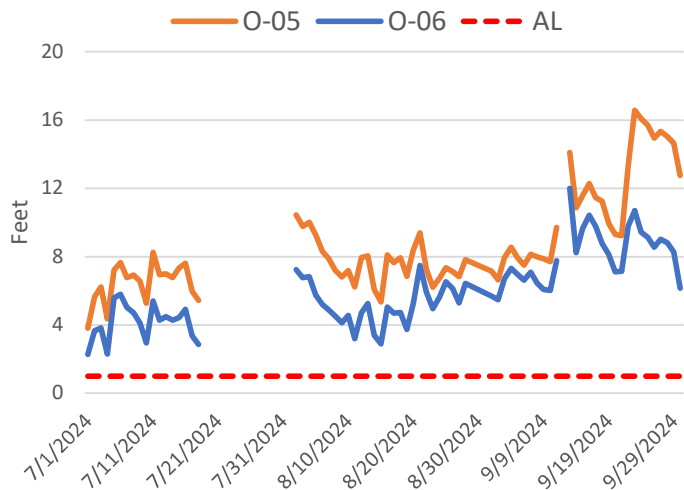
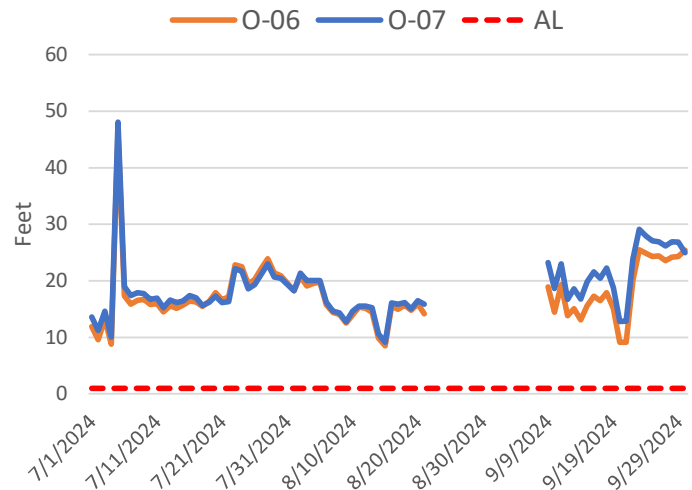


Figure 1p. Hydraulic Gradient for Wells Paired with R-08



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 4. July 2024 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
7/1/2024	NA	NA	NA	27.75	34.36	34.33	17.61	23.72	91.70	98.15	3.81	2.27	11.91	13.64	Yes
7/2/2024	NA	NA	NA	36.28	52.76	51.69	37.26	25.35	53.18	59.64	5.64	3.66	9.61	11.24	Yes
7/3/2024	NA	11.91	NA	41.35	40.85	39.15	25.56	28.23	58.14	64.32	6.22	3.82	13.24	14.65	Yes
7/4/2024	NA	10.43	NA	27.17	29.75	29.49	18.18	19.26	36.71	43.05	4.35	2.30	8.78	10.06	Yes
7/5/2024	NA	10.12	NA	36.38	16.90	12.01	29.09	41.24	78.71	85.21	7.22	5.59	46.29	48.06	Yes
7/6/2024	NA	12.19	NA	41.76	NA	NA	33.31	44.34	85.06	91.41	7.65	5.80	17.36	18.99	Yes
7/7/2024	NA	11.22	NA	40.42	NA	NA	29.09	40.00	87.27	93.72	6.77	5.02	15.87	17.38	Yes
7/8/2024	NA	10.20	NA	34.48	NA	NA	25.71	42.95	85.65	91.89	6.92	4.72	16.55	17.89	Yes
7/9/2024	NA	11.51	NA	33.45	NA	NA	NA	42.82	71.19	77.23	6.56	4.11	16.74	17.75	Yes
7/10/2024	NA	10.02	NA	29.32	NA	NA	NA	39.59	90.15	96.36	5.27	2.95	15.82	16.72	Yes
7/11/2024	NA	12.15	NA	36.21	NA	NA	NA	48.70	74.29	80.23	8.25	5.40	16.01	16.95	Yes
7/12/2024	NA	11.95	NA	30.29	NA	NA	NA	40.00	48.33	54.42	6.94	4.29	14.50	15.27	Yes
7/13/2024	NA	10.70	NA	33.37	NA	NA	NA	40.94	48.87	54.93	7.01	4.49	15.58	16.60	Yes
7/14/2024	NA	10.50	NA	33.01	NA	NA	NA	34.91	69.27	75.29	6.78	4.28	15.16	16.17	Yes
7/15/2024	NA	12.10	NA	32.37	NA	NA	NA	40.46	48.87	54.72	7.34	4.44	15.70	16.47	Yes
7/16/2024	NA	11.55	NA	34.73	NA	NA	NA	44.29	71.10	77.14	7.62	4.92	16.42	17.39	Yes
7/17/2024	NA	11.82	NA	32.56	NA	NA	NA	43.81	87.34	93.57	5.97	3.36	16.29	17.01	Yes
7/18/2024	NA	11.62	NA	26.04	42.03	NA	NA	39.37	75.06	81.81	5.44	2.85	15.46	15.64	Yes
7/19/2024	NA	11.40	NA	27.82	26.13	26.77	25.13	39.25	63.37	70.34	NA	NA	16.41	16.22	Yes
7/20/2024	NA	12.25	NA	32.75	35.01	34.73	28.35	45.81	67.81	74.84	NA	NA	17.94	17.31	Yes
7/21/2024	NA	11.80	NA	32.90	33.60	33.68	26.26	43.48	73.76	80.92	NA	NA	16.69	16.17	Yes
7/22/2024	NA	11.90	NA	30.70	29.26	30.06	28.96	42.37	75.19	82.11	NA	NA	17.20	16.33	Yes
7/23/2024	NA	12.55	NA	41.02	17.06	16.83	30.88	59.52	NA	NA	NA	NA	22.86	22.16	Yes
7/24/2024	NA	14.28	NA	43.04	34.16	32.56	21.34	58.18	NA	NA	NA	NA	22.50	21.69	Yes
7/25/2024	NA	12.29	NA	34.00	32.40	30.66	32.89	48.43	NA	NA	NA	NA	19.47	18.57	Yes
7/26/2024	NA	12.92	NA	33.58	34.26	32.64	28.60	46.85	NA	NA	NA	NA	20.21	19.33	Yes
7/27/2024	NA	13.40	NA	37.66	34.65	33.50	29.11	52.48	NA	NA	NA	NA	22.22	21.18	Yes
7/28/2024	NA	12.70	NA	49.43	59.49	51.98	34.56	56.40	NA	NA	NA	NA	23.91	22.99	Yes
7/29/2024	NA	11.83	NA	44.57	45.79	32.62	37.67	51.69	NA	NA	NA	NA	21.41	20.71	Yes
7/30/2024	NA	12.16	NA	46.65	50.45	37.65	20.48	53.18	NA	NA	NA	NA	20.92	20.45	Yes
7/31/2024	NA	11.16	NA	41.50	41.25	26.52	22.19	47.21	NA	NA	NA	NA	18.25	18.27	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 reconditioning 7/1/2024 - 7/2/2024

O-01 reconditioning 7/1/2024 - 7/31/2024

R-03 reconditioning 7/6/2024 - 7/17/2024

O-03 reconditioning 7/9/2024 - 7/18/2024

R-06 reconditioning 7/23/2024 - 7/31/2024

R-07 reconditioning 7/19/2024 - 7/31/2024

FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 5. August 2024 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
8/1/2024	NA	12.03	NA	45.63	51.81	36.44	35.44	51.29	NA	NA	10.45	7.24	20.80	21.39	Yes
8/2/2024	NA	9.40	NA	32.91	39.87	25.53	42.90	34.37	NA	NA	9.78	6.77	19.09	20.06	Yes
8/3/2024	NA	10.71	NA	NA	NA	30.48	44.17	45.60	NA	NA	10.01	6.82	19.54	20.07	Yes
8/4/2024	NA	11.82	NA	NA	NA	29.62	34.63	45.02	NA	NA	9.28	5.76	19.77	20.04	Yes
8/5/2024	NA	10.67	NA	NA	NA	29.47	21.71	40.67	NA	NA	8.31	5.20	15.77	16.21	Yes
8/6/2024	NA	11.66	NA	NA	NA	30.55	19.57	40.83	NA	NA	7.87	4.87	14.38	14.65	Yes
8/7/2024	7.06	10.09	30.60	NA	NA	19.47	13.43	33.55	NA	NA	7.20	4.52	14.05	14.36	Yes
8/8/2024	7.27	10.28	32.69	NA	NA	22.25	17.43	34.19	NA	NA	6.82	4.13	12.53	12.75	Yes
8/9/2024	6.96	10.59	36.55	NA	NA	26.93	18.24	36.91	NA	NA	7.19	4.55	13.96	14.62	Yes
8/10/2024	6.97	10.30	39.00	NA	NA	28.75	21.13	39.07	NA	NA	6.22	3.19	15.37	15.53	Yes
8/11/2024	7.00	10.21	39.91	NA	NA	29.69	20.72	39.65	NA	NA	7.96	4.71	15.14	15.51	Yes
8/12/2024	6.38	9.79	37.54	NA	NA	27.93	20.29	37.27	NA	NA	8.05	5.25	14.46	15.28	Yes
8/13/2024	5.86	8.75	25.77	NA	NA	13.92	11.05	25.37	NA	NA	6.08	3.41	9.85	10.59	Yes
8/14/2024	6.04	8.27	22.30	NA	NA	13.42	7.92	22.53	NA	NA	5.35	2.89	8.48	9.14	Yes
8/15/2024	6.96	10.01	39.45	NA	NA	31.81	22.95	38.30	NA	NA	8.10	5.04	15.54	16.13	Yes
8/16/2024	6.06	9.58	38.21	NA	NA	26.60	16.98	37.99	NA	NA	7.66	4.69	14.95	15.85	Yes
8/17/2024	7.95	11.23	40.83	NA	NA	30.69	22.34	40.66	NA	NA	7.93	4.72	15.69	16.17	Yes
8/18/2024	7.19	9.98	37.74	NA	NA	28.15	21.70	37.34	NA	NA	6.85	3.75	14.78	15.05	Yes
8/19/2024	7.86	11.03	41.87	NA	NA	33.41	13.11	41.20	NA	NA	8.38	5.26	15.93	16.48	Yes
8/20/2024	5.15	8.88	50.66	36.47	44.68	40.50	12.45	43.96	14.69	21.03	9.40	7.49	14.15	15.86	Yes
8/21/2024	NA	NA	39.53	27.75	35.04	26.67	13.07	38.90	10.65	17.33	7.26	5.93	NA	NA	Yes
8/22/2024	NA	NA	34.13	21.66	26.93	20.13	16.24	32.08	7.64	14.50	6.21	4.95	NA	NA	Yes
8/23/2024	NA	NA	38.35	25.79	30.67	24.51	17.99	35.29	9.04	15.92	6.74	5.63	NA	NA	Yes
8/24/2024	NA	NA	43.56	30.67	39.27	32.80	24.98	42.25	10.94	17.94	7.36	6.53	NA	NA	Yes
8/25/2024	NA	NA	43.41	30.40	38.29	33.23	23.26	40.32	10.93	17.78	7.12	6.14	NA	NA	Yes
8/26/2024	NA	NA	43.15	30.88	29.97	26.16	23.54	33.90	11.33	17.92	6.83	5.28	NA	NA	Yes
8/27/2024	NA	NA	44.51	32.20	40.29	35.38	24.39	41.98	12.19	18.76	7.82	6.44	NA	NA	Yes
8/28/2024	NA	NA	39.75	30.27	35.55	29.76	21.36	37.31	10.01	16.52	7.16	5.69	NA	NA	Yes
8/29/2024	NA	NA	37.45	33.58	38.81	29.57	22.08	34.92	8.98	15.73	6.64	5.48	NA	NA	Yes
8/30/2024	NA	NA	43.94	40.13	49.39	39.42	27.99	41.40	12.36	19.08	7.94	6.71	NA	NA	Yes
8/31/2024	NA	NA	52.36	48.11	60.71	50.10	34.68	49.61	16.23	22.80	8.54	7.31	NA	NA	Yes

Notes:

All measurements in elevation above mean sea level.

#N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 reconditioning 8/21/2024 - 8/31/2024

O-01 reconditioning 8/1/2024 - 8/6/2024

O-02 reconditioning 8/3/2024 - 8/19/2024

R-06 reconditioning 8/1/2024 - 8/19/2024

R-08 reconditioning 8/21/2024 - 8/31/2024

FLORENCE COPPER LLC
FLORENCE, ARIZONA

Table 5. September 2024 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
9/1/2024	NA	NA	49.36	45.38	55.17	44.99	30.04	45.33	15.85	22.56	7.93	6.96	NA	NA	Yes
9/2/2024	NA	NA	51.62	47.70	45.10	34.40	32.21	48.01	14.87	21.58	7.51	6.63	NA	NA	Yes
9/3/2024	NA	NA	47.73	43.68	53.18	42.54	29.97	45.31	13.02	19.62	8.14	7.10	NA	NA	Yes
9/4/2024	11.82	18.51	44.69	40.78	48.28	39.55	27.11	41.54	12.13	18.49	7.98	6.45	NA	NA	Yes
9/5/2024	4.88	11.62	41.91	30.64	40.15	40.40	25.59	40.03	10.59	16.95	7.87	6.07	18.95	23.24	Yes
9/6/2024	3.63	10.23	41.65	27.48	36.72	NA	NA	39.76	10.51	16.93	7.71	6.03	14.46	18.65	Yes
9/7/2024	5.08	11.73	42.44	29.66	43.59	NA	NA	38.10	12.69	19.12	9.72	7.76	19.31	23.00	Yes
9/8/2024	3.30	9.94	28.30	10.20	13.49	NA	NA	26.49	6.69	13.45	NA	NA	13.84	16.72	Yes
9/9/2024	3.75	10.63	41.90	27.78	34.05	NA	NA	37.75	10.72	17.01	14.11	11.99	15.10	18.58	Yes
9/10/2024	3.49	10.71	37.93	21.93	23.34	NA	NA	37.23	9.26	14.84	10.87	8.23	13.13	16.79	Yes
9/11/2024	3.72	10.47	43.49	29.73	37.44	NA	NA	48.86	11.75	17.50	11.56	9.64	15.58	19.86	Yes
9/12/2024	5.24	12.21	47.56	36.10	47.17	NA	NA	45.93	13.58	19.27	12.28	10.43	17.27	21.59	Yes
9/13/2024	5.56	12.20	46.85	34.60	43.20	NA	NA	44.78	13.50	19.30	11.46	9.77	16.53	20.43	Yes
9/14/2024	5.39	11.84	46.69	35.12	47.49	NA	NA	45.04	15.13	20.64	11.26	8.77	17.90	22.26	Yes
9/15/2024	4.21	11.09	40.78	27.10	35.41	NA	NA	39.98	12.26	17.81	9.94	8.13	15.17	18.84	Yes
9/16/2024	3.00	9.73	27.48	11.32	14.63	NA	NA	24.30	5.68	11.13	9.30	7.12	9.12	12.85	Yes
9/17/2024	3.21	9.92	28.33	12.09	15.67	NA	NA	24.90	5.82	11.35	9.23	7.15	9.16	12.86	Yes
9/18/2024	3.24	12.72	47.61	35.26	46.15	NA	NA	48.88	17.78	22.97	13.40	9.81	20.07	23.83	Yes
9/19/2024	1.02	12.91	48.28	41.34	53.80	NA	NA	54.43	26.15	30.44	16.57	10.69	25.48	29.09	Yes
9/20/2024	4.44	16.85	49.09	44.31	50.96	NA	NA	50.28	25.12	29.08	16.10	9.43	24.86	27.93	Yes
9/21/2024	5.12	17.93	49.31	40.38	46.10	NA	NA	49.38	24.28	28.36	15.69	9.14	24.29	27.11	Yes
9/22/2024	4.56	17.29	49.71	41.30	47.08	NA	NA	49.64	24.26	28.53	14.94	8.56	24.40	26.92	Yes
9/23/2024	1.75	13.53	49.54	46.44	52.12	NA	NA	49.23	24.08	28.36	15.34	9.01	23.59	26.15	Yes
9/24/2024	1.67	13.22	49.96	48.22	53.87	NA	NA	49.27	23.81	28.09	15.04	8.82	24.18	26.93	Yes
9/25/2024	2.77	14.25	50.00	49.46	54.63	NA	NA	49.19	23.86	28.03	14.64	8.26	24.33	26.88	Yes
9/26/2024	1.53	10.69	51.31	50.19	53.70	46.00	39.40	49.33	24.38	28.51	12.75	6.15	25.45	24.99	Yes
9/27/2024	2.82	15.30	55.45	53.04	65.36	53.27	44.06	60.45	26.46	31.75	13.14	6.83	27.07	27.49	Yes
9/28/2024	2.66	15.99	54.33	51.62	66.39	53.56	44.41	61.83	26.49	30.71	NA	NA	26.25	27.61	Yes
9/29/2024	1.67	14.81	54.53	51.73	66.59	53.95	45.13	61.57	26.18	31.69	NA	NA	26.01	27.57	Yes
9/30/2024	3.33	9.77	50.27	53.05	64.88	48.44	39.06	53.69	32.49	39.91	NA	NA	29.27	26.12	Yes

Notes:

All measurements in elevation above mean sea level.

#N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

R-01 reconditioning 9/1/2024 - 9/3/2024

O-03 reconditioning 9/6/2024 - 9/25/2024

R-07 reconditioning 9/8/2024 and 9/28/2024 - 9/30/2024

R-08 reconditioning 9/1/2024 - 9/4/2024

R-09 reconditioning 9/5/2024 - 9/9/2024

ATTACHMENT 4

Table and Graphs of Fluid Electrical Conductivity Measurements

Q3 2024 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Table 1. July 2024 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
7/1/2024	310	250	245	251	NA	NA	NA	NA	1418	1500	1548	1449
7/2/2024	NA	412	NA	398	NA	NA	NA	NA	1767	1513	1512	1451
7/3/2024	NA	372	308	NA	NA	NA	NA	NA	1411	1499	1507	1450
7/4/2024	NA	NA	NA	NA	NA	NA	NA	NA	1422	1497	1505	1449
7/5/2024	NA	NA	NA	NA	NA	NA	NA	NA	1481	1503	1507	1449
7/6/2024	435	255	268	255	NA	NA	NA	NA	1393	1501	1517	1449
7/7/2024	291	287	284	285	NA	NA	NA	NA	1427	1499	1507	1449
7/8/2024	461	286	292	280	NA	NA	NA	NA	1426	1500	1522	1448
7/9/2024	279	284	283	281	NA	NA	NA	NA	1413	1499	1505	1448
7/10/2024	254	252	235	253	NA	NA	NA	NA	1506	1502	1505	1449
7/11/2024	375	325	327	325	NA	NA	2681	NA	1553	1501	1506	1449
7/12/2024	273	284	287	259	NA	NA	NA	NA	1422	1501	1504	1448
7/13/2024	NA	NA	NA	NA	NA	NA	NA	NA	1393	1499	1507	1447
7/14/2024	NA	NA	NA	NA	NA	NA	NA	NA	1414	1500	1504	1447
7/15/2024	NA	NA	NA	NA	NA	NA	NA	NA	1425	1501	1504	1448
7/16/2024	NA	NA	NA	NA	NA	NA	NA	NA	1454	1502	1504	1447
7/17/2024	241	243	246	242	NA	NA	NA	NA	1431	1501	1503	1447
7/18/2024	830	296	310	310	NA	NA	NA	NA	1383	1500	1503	1447
7/19/2024	255	262	259	253	NA	NA	NA	NA	1379	1497	1657	1447
7/20/2024	NA	NA	NA	NA	NA	NA	NA	NA	1378	1499	1875	1448
7/21/2024	NA	NA	NA	NA	NA	NA	NA	NA	1382	1496	1998	1447
7/22/2024	NA	NA	NA	NA	NA	NA	NA	NA	1379	1496	1925	1447
7/23/2024	NA	NA	NA	NA	NA	NA	NA	NA	1379	1493	1960	1448
7/24/2024	279	306	299	297	NA	NA	2749	2180	1382	1493	2121	1447
7/25/2024	NA	NA	NA	NA	NA	NA	NA	NA	1383	1492	1830	1447
7/26/2024	248	250	249	253	NA	NA	NA	NA	1386	1492	1989	1447
7/27/2024	339	341	365	334	NA	NA	NA	NA	1385	1492	2008	1446
7/28/2024	350	361	340	359	NA	NA	NA	NA	1387	1492	1870	1447
7/29/2024	299	301	310	349	NA	NA	NA	NA	1386	1491	2066	1447
7/30/2024	277	266	249	272	NA	NA	NA	NA	1387	1493	2841	1446
7/31/2024	390	278	282	281	NA	NA	1614	2722	1384	1492	1854	1446

Notes:

All measurements in microsiemens per centimeter (uS/cm)

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

I-01 off 7/2/2024

I-01 no data available 7/2/2024-7/5/2024, 7/13/2024-7/16/2024, 7/20/2024-7/23/2024 and 7/25/2024

I-02 no data available 7/4/2024-7/5/2024, 7/13/2024-7/16/2024, 7/20/2024-7/23/2024 and 7/25/2024

I-03 no data available 7/2/2024, 7/4/2024-7/5/2024, 7/13/2024-7/16/2024, 7/20/2024-7/23/2024, and 7/25/2024

I-04 off 7/3/2024-7/4/2024

I-04 no data available 7/5/2024, 7/13/2024-7/16/2024, 7/20/2024-7/23/2024, and 7/25/2024

O-01 reconditioning 7/1/2024-7/31/2024

O-02 off 7/1/2024-7/7/2024

O-02 no data available 7/8/2024-7/10/2024, 7/12/2024-7/23/2024, and 7/25/2024-7/29/2024

O-03 off 7/1/2024-7/4/2024

O-03 reconditioning 7/9/2024-7/19/2024

O-03 no data available 7/5/2024-7/8/2024, 7/30/2024

R-09 not used for injection during Q3

Q3 2024 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

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Table 2. August 2024 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
8/1/2024	NA	NA	NA	NA	NA	NA	NA	NA	1385	1492	1942	1447
8/2/2024	297	262	261	257	NA	NA	NA	NA	1388	1494	1639	1447
8/3/2024	503	334	319	315	NA	NA	NA	NA	1400	1496	1865	1447
8/4/2024	317	318	316	315	NA	NA	NA	NA	1392	1496	1567	1447
8/5/2024	720	293	325	301	NA	NA	NA	NA	1406	1497	1534	1447
8/6/2024	323	320	319	325	NA	NA	NA	NA	1383	1496	1724	1447
8/7/2024	317	303	312	342	NA	NA	NA	2915	1384	1496	1814	1447
8/8/2024	304	242	235	237	NA	2005	NA	NA	1384	1494	1673	1447
8/9/2024	247	246	246	246	NA	1974	NA	NA	1384	1494	1786	1447
8/10/2024	224	206	200	214	NA	1978	NA	NA	1369	1477	1660	1447
8/11/2024	227	186	184	192	NA	1935	NA	NA	1370	1476	1753	1447
8/12/2024	240	243	230	230	NA	1955	NA	NA	1383	1477	1570	1448
8/13/2024	249	228	223	238	NA	1923	NA	NA	1380	1478	1492	1448
8/14/2024	189	185	187	188	NA	1843	NA	2939	1380	1473	1467	1448
8/15/2024	298	196	193	184	NA	1882	NA	NA	1382	1474	1514	1448
8/16/2024	NA	NA	NA	NA	NA	1913	NA	NA	1384	1475	1665	1447
8/17/2024	NA	NA	NA	NA	NA	1888	NA	NA	1382	1475	1559	1448
8/18/2024	NA	NA	NA	NA	NA	1902	NA	NA	1385	1474	1634	1448
8/19/2024	NA	NA	NA	NA	NA	1893	NA	NA	1384	1475	1517	1447
8/20/2024	NA	NA	NA	NA	NA	1882	NA	NA	1407	1476	1645	1448
8/21/2024	NA	NA	NA	NA	NA	1907	NA	NA	1473	1474	1488	1447
8/22/2024	NA	NA	NA	NA	NA	1875	2564	2887	1523	1476	1473	1461
8/23/2024	221	234	135	614	NA	1895	NA	NA	1467	1475	1467	1461
8/24/2024	315	265	259	271	NA	1909	NA	NA	1438	1474	1464	1461
8/25/2024	179	181	179	179	NA	1962	NA	NA	1501	1475	1463	1462
8/26/2024	166	162	166	161	NA	1991	NA	NA	1521	1476	1462	1463
8/27/2024	529	222	171	160	NA	2034	NA	NA	1400	1472	1460	1463
8/28/2024	321	204	182	179	NA	2074	2706	2855	1410	1468	1461	1463
8/29/2024	232	218	225	234	NA	2097	NA	NA	1415	1474	1460	1464
8/30/2024	NA	NA	NA	NA	NA	2116	NA	NA	1447	1475	1461	1464
8/31/2024	NA	NA	NA	NA	NA	2136	NA	NA	1455	1470	1461	1464

Notes:

All measurements in microsiemens per centimeter (uS/cm)

N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

I-02 no data available 8/1/2024, 8/16/2024-8/22/2024, and 8/30/2024-8/31/2024

I-03 no data available 8/1/2024, 8/16/2024-8/22/2024, and 8/30/2024-8/31/2024

I-04 no data available 8/1/2024, 8/16/2024-8/22/2024, and 8/30/2024-8/31/2024

O-01 reconditioning 8/1/2024-8/7/2024

O-02 reconditioning 8/3/2024-8/19/2024

O-02 no data available 8/1/2024-8/2/2024, 8/20/2024-8/21/2024, and 8/23/2024-8/27/2024

O-02 off 8/29/2024-8/31/2024

O-03 no data available 8/1/2024-8/6/2024, 8/8/2024-8/13/2024, 8/15/2024-8/21/2024, and 8/23/2024-8/27/2024

O-03 off 8/29/2024-8/31/2024

R-09 not used for injection during Q3

Q3 2024 DAILY FLUID ELECTRICAL CONDUCTIVITY
INJECTION AND OBSERVATION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

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Table 3. September 2024 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
9/1/2024	NA	NA	NA	NA	NA	2152	NA	NA	1430	1468	1461	1464
9/2/2024	NA	NA	NA	NA	NA	2149	NA	NA	1461	1470	1461	1464
9/3/2024	NA	NA	NA	NA	NA	2139	NA	NA	1417	1466	1461	1464
9/4/2024	146	146	145	151	NA	2110	1444	1449	1397	1467	1462	1464
9/5/2024	156	140	150	157	NA	2085	NA	NA	1411	1469	1461	1464
9/6/2024	174	175	178	174	NA	2078	NA	NA	1464	1468	1460	1469
9/7/2024	NA	NA	NA	NA	NA	2029	NA	NA	1449	1470	1462	1471
9/8/2024	NA	NA	NA	NA	NA	2029	NA	NA	1466	1473	1461	1471
9/9/2024	NA	NA	NA	NA	NA	2002	NA	NA	1426	1465	1461	1470
9/10/2024	NA	NA	NA	NA	NA	2028	NA	NA	1456	1470	1456	1470
9/11/2024	NA	NA	NA	NA	NA	2031	3013	NA	1501	1479	1460	1469
9/12/2024	NA	NA	NA	NA	NA	2054	NA	NA	1459	1457	1439	1467
9/13/2024	NA	NA	NA	NA	NA	2076	NA	NA	1474	1457	1446	1468
9/14/2024	NA	NA	NA	NA	NA	2099	NA	NA	1460	1457	1445	1467
9/15/2024	NA	NA	NA	NA	NA	2123	NA	NA	1455	1457	1446	1467
9/16/2024	NA	NA	NA	NA	NA	2136	NA	NA	1419	1457	1445	1467
9/17/2024	NA	NA	NA	NA	NA	2149	NA	NA	1399	1456	1441	1466
9/18/2024	NA	NA	NA	NA	NA	2163	2325	NA	1413	1456	1445	1467
9/19/2024	NA	NA	NA	NA	NA	2195	NA	NA	1371	1453	1442	1465
9/20/2024	NA	NA	NA	NA	NA	2186	NA	NA	1376	1451	1436	1465
9/21/2024	NA	NA	NA	NA	NA	2054	NA	NA	1379	1450	1437	1465
9/22/2024	NA	NA	NA	NA	NA	1968	NA	NA	1382	1449	1438	1465
9/23/2024	NA	NA	NA	NA	NA	1900	NA	NA	1384	1449	1437	1465
9/24/2024	NA	NA	NA	NA	NA	1834	NA	NA	1385	1448	1438	1465
9/25/2024	NA	NA	NA	NA	NA	1819	NA	NA	1386	1449	1442	1465
9/26/2024	NA	NA	NA	NA	NA	1801	NA	NA	1387	1448	1439	1465
9/27/2024	NA	NA	NA	NA	NA	1821	NA	NA	1388	1447	1438	1465
9/28/2024	NA	NA	NA	NA	NA	1780	NA	NA	1390	1446	1435	1465
9/29/2024	NA	NA	NA	NA	NA	1759	NA	NA	1391	1447	1435	1466
9/30/2024	NA	NA	NA	NA	NA	1736	2190	2149	1393	1447	1435	1467

Notes:

All measurements in microsiemens per centimeter (uS/cm)

N/A or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

I-01 off 9/19/2024-9/30/2024

I-02 no data available 9/1/2024-9/3/2024 and 9/7/2024-9/18/2024

I-02 off 9/19/2024-9/30/2024

I-03 no data available 9/1/2024-9/3/2024 and 9/7/2024-9/18/2024

I-03 off 9/19/2024-9/30/2024

I-04 no data available 9/1/2024-9/3/2024 and 9/7/2024-9/18/2024

I-04 off 9/19/2024-9/30/2024

O-02 off 9/1/2024-9/3/2024, 9/24/2024 and 9/26/2024-9/29/2024

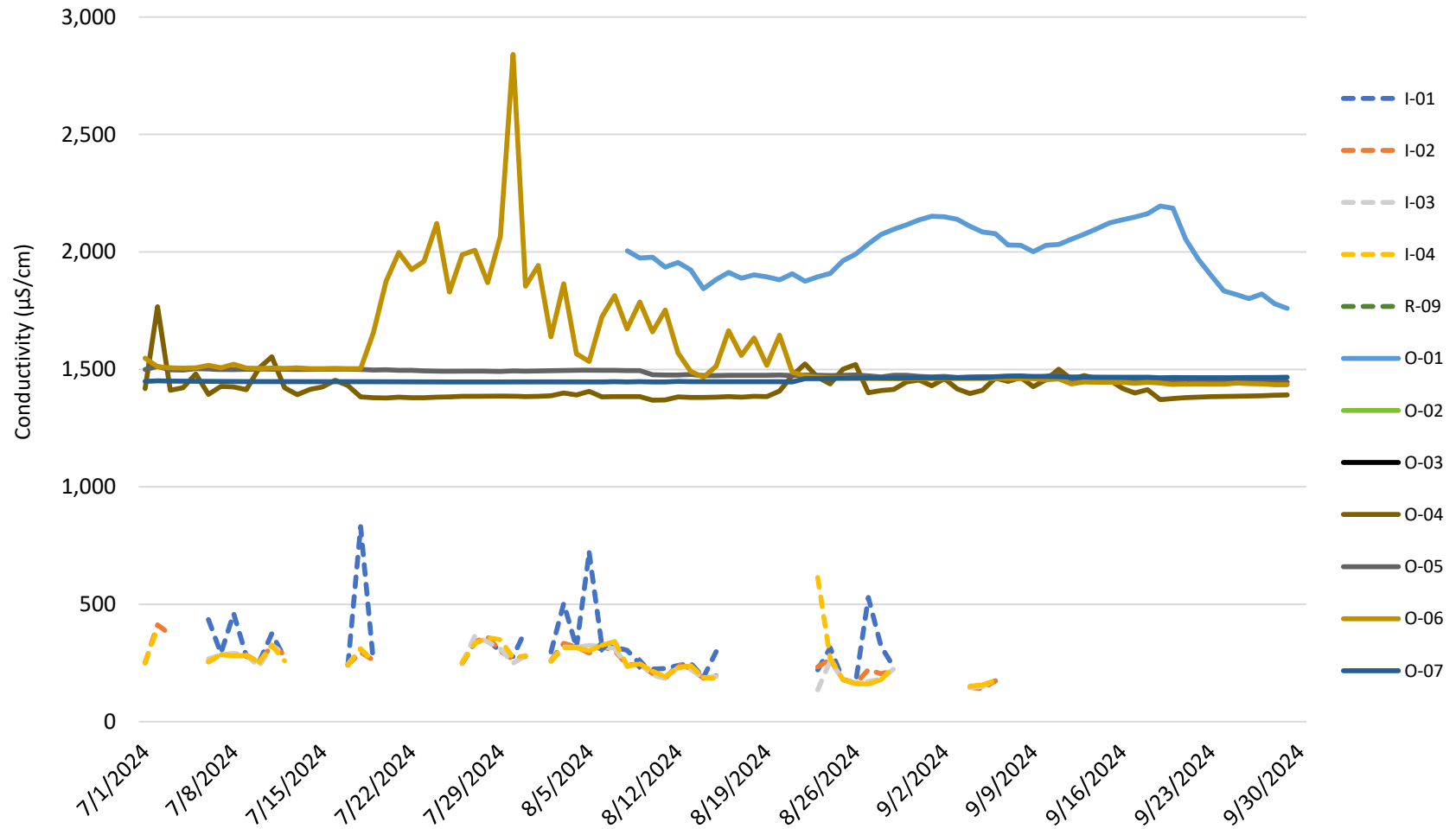
O-02 no data available 9/5/2024-9/10/2024, 9/12/2024-9/17/2024, 9/19/2024-9/23/2024 and 9/25/2024

O-03 off 9/1/2024-9/3/2024 and 9/26/2024

O-03 reconditioning 9/6/2024-9/25/2024

O-03 no data available 9/27/2024-9/30/2024

Figure 1. Daily Fluid Electrical Conductivity in Injection and Observation Wells



ATTACHMENT 5

Table and Graphs of Monitor Well Water Levels and Analytical Results

5A. Quarterly Concentration Graphs

5B. Well Details and Water Level Elevations

5C. Groundwater Monitoring Summary

ATTACHMENT 5A

Quarterly Concentration Graphs

M14-GL Quarterly Analyte Graphs

Figure 1a. Temperature, Field

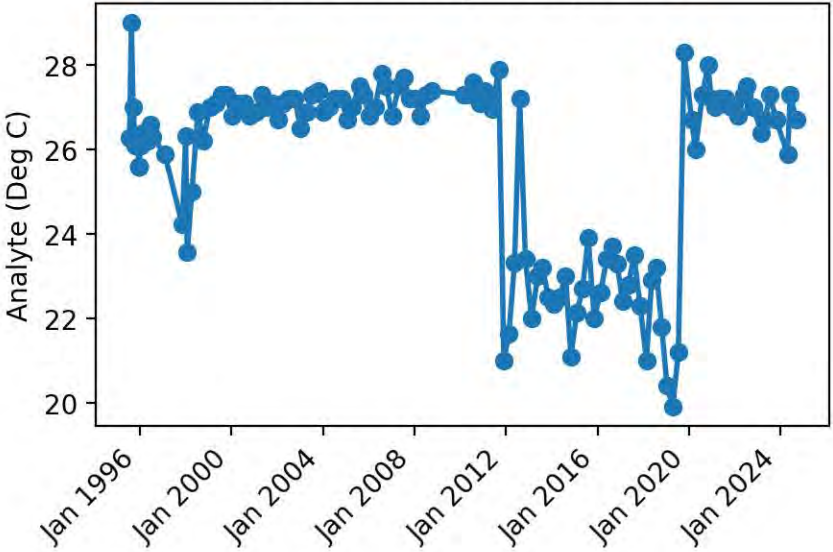


Figure 1b. pH, Field

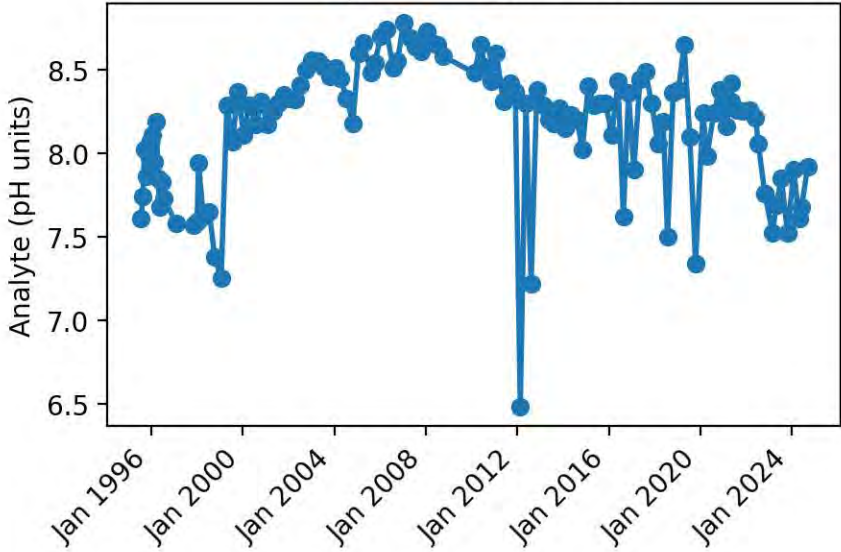


Figure 1c. Specific Conductance, Field

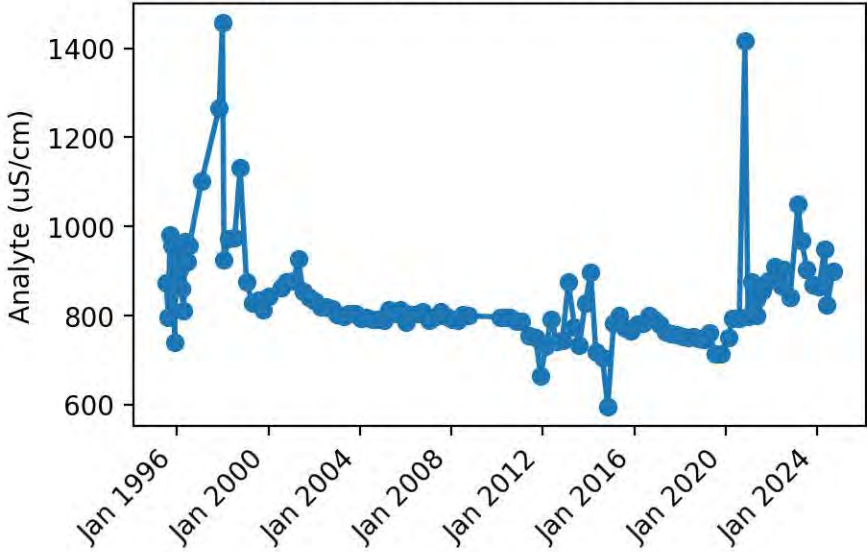


Figure 1d. Magnesium

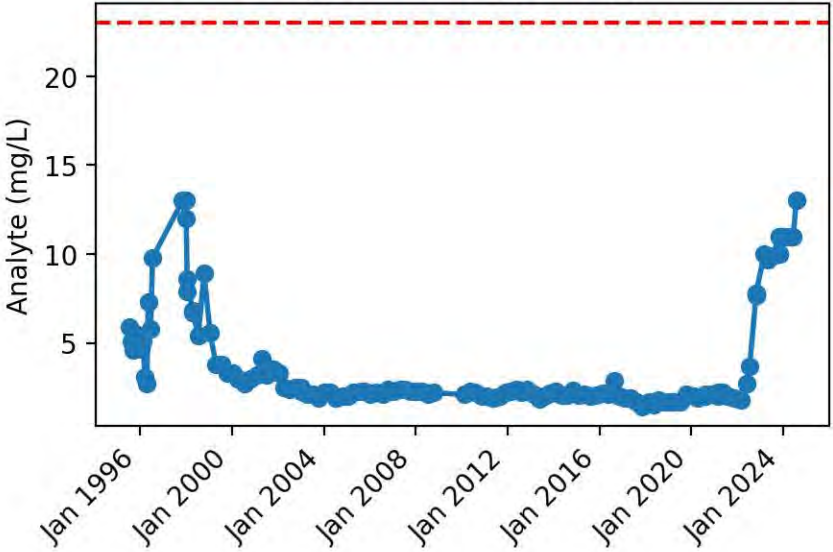


Figure 1e. Sulfate

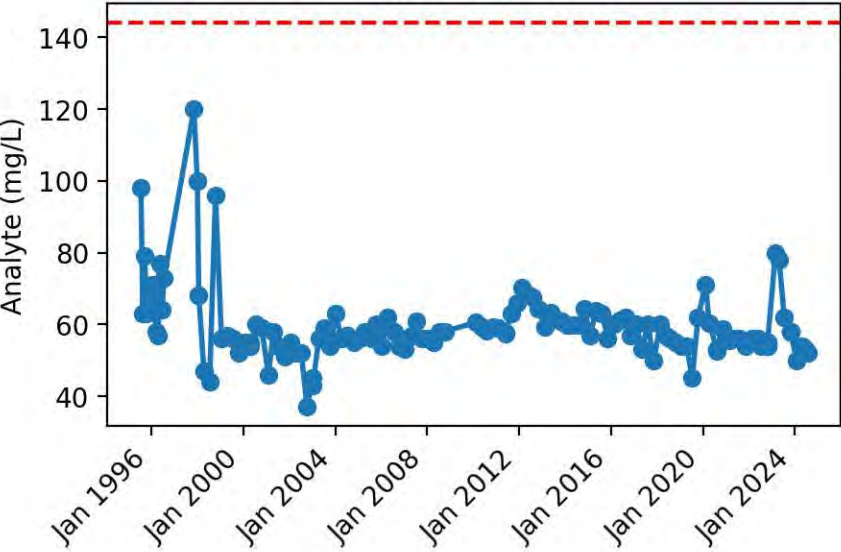


Figure 1f. Fluoride

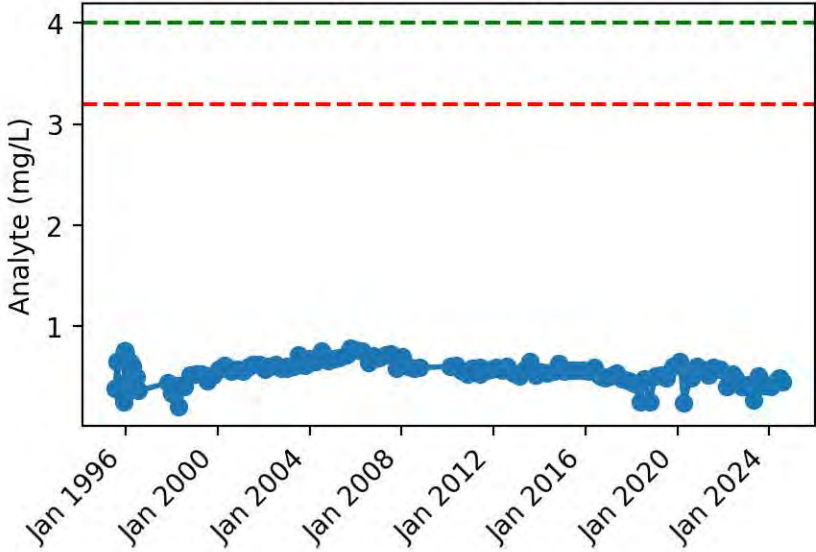
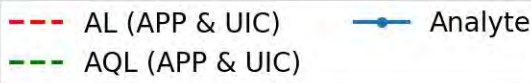
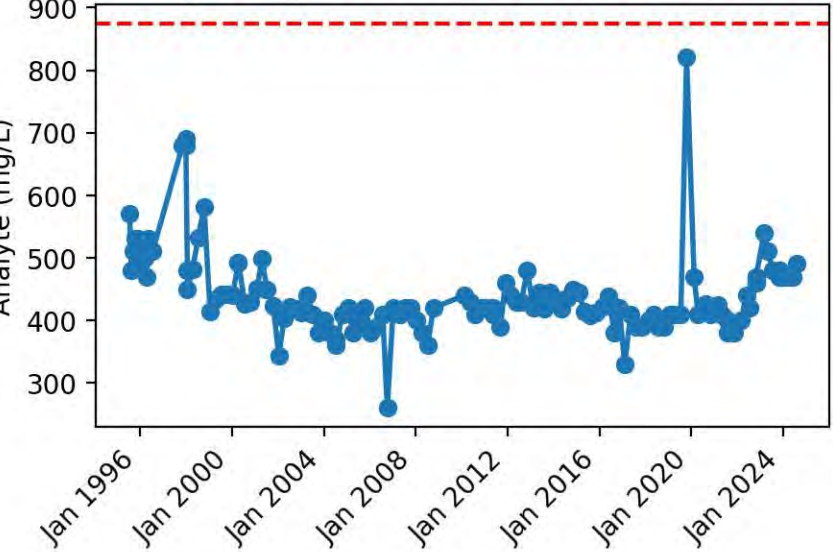


Figure 1g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M15-GU Quarterly Analyte Graphs

Figure 2a. Temperature, Field

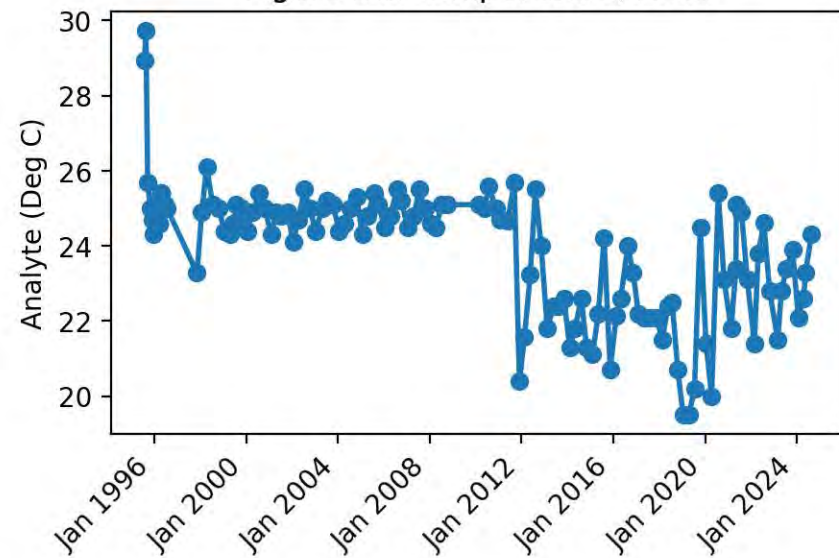


Figure 2b. pH, Field

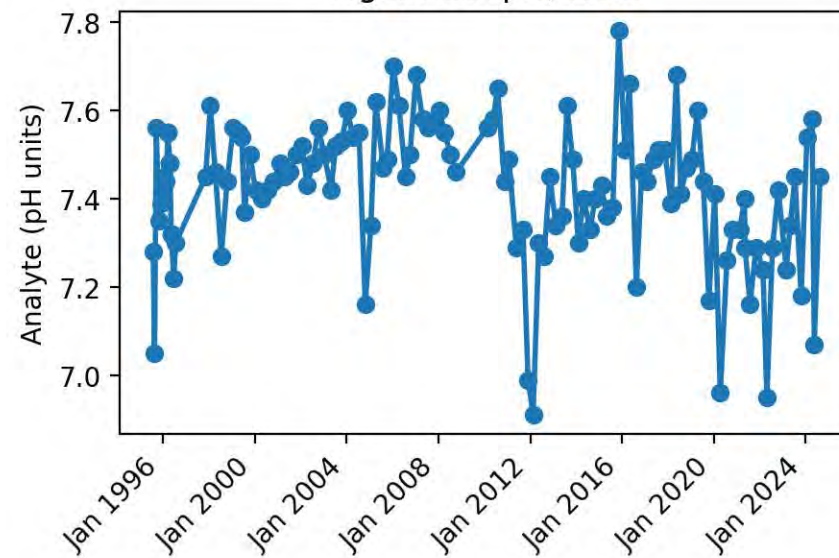


Figure 2c. Specific Conductance, Field

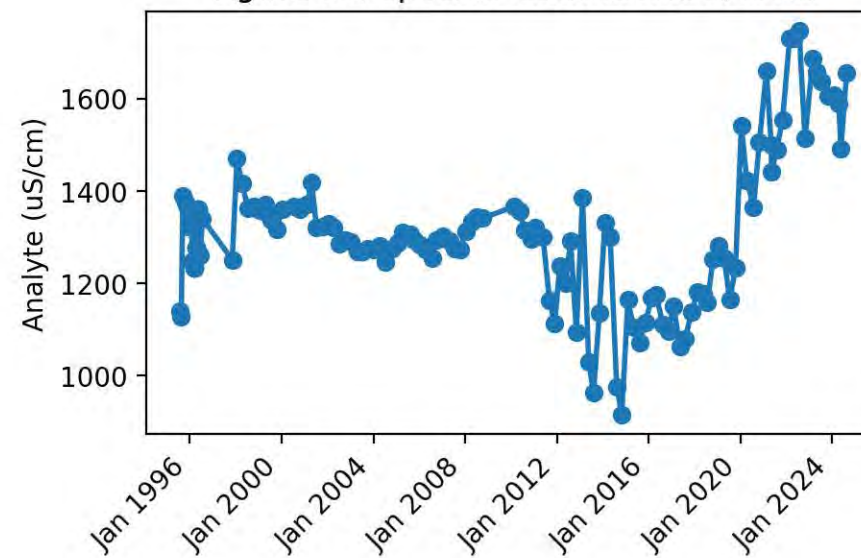


Figure 2d. Magnesium

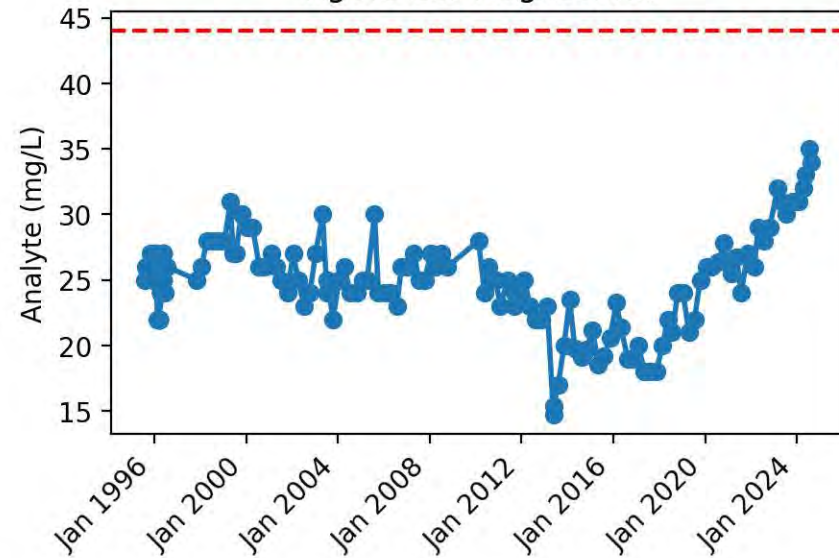


Figure 2e. Sulfate

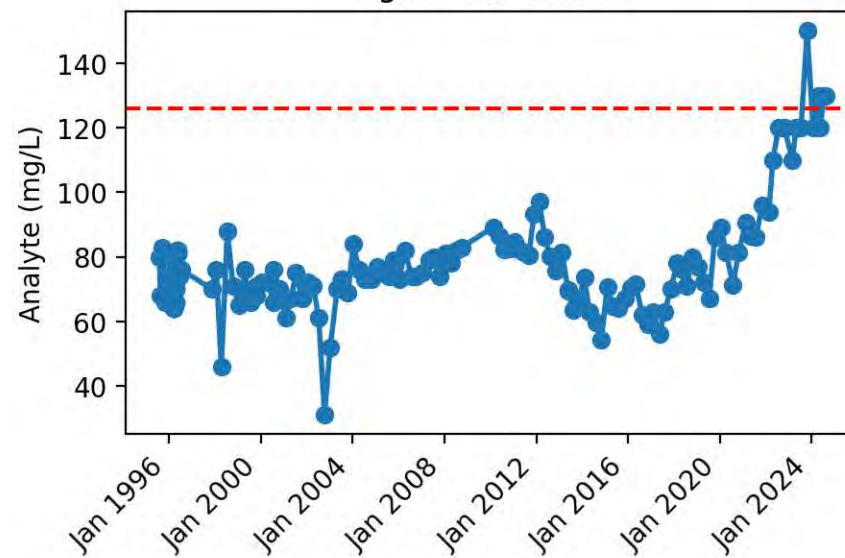


Figure 2f. Fluoride

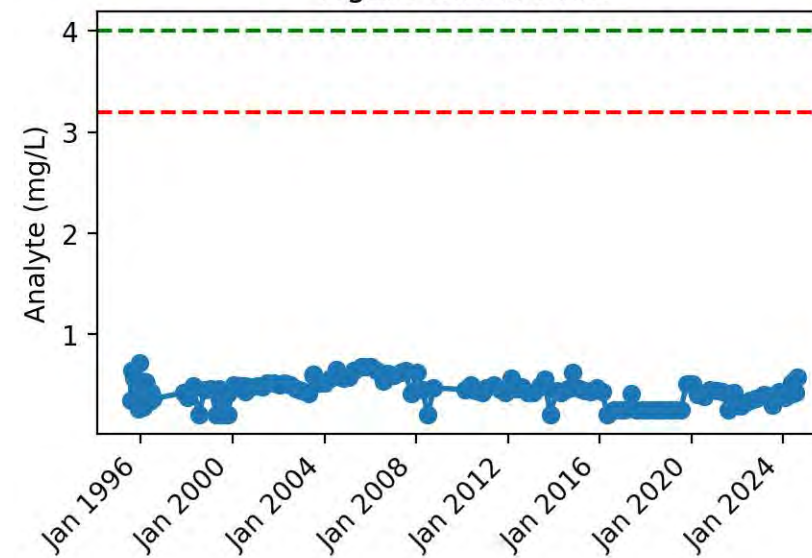
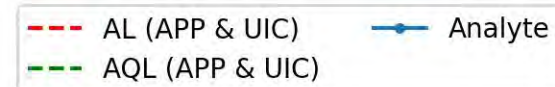
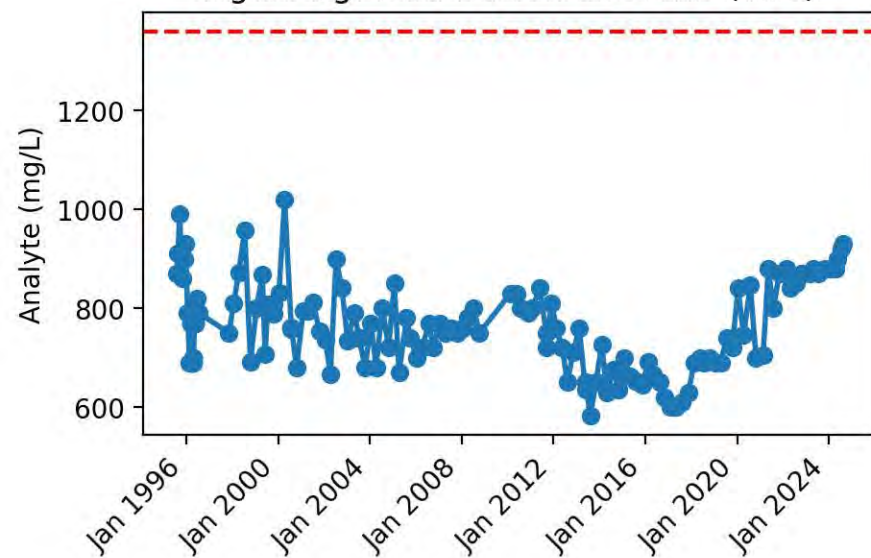


Figure 2g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M3-GL Quarterly Analyte Graphs

Figure 21a. Temperature, Field

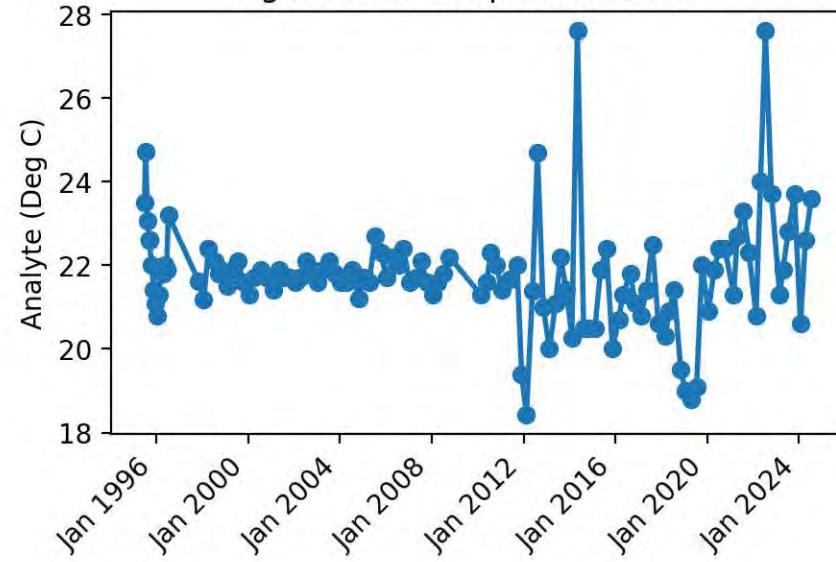


Figure 21b. pH, Field

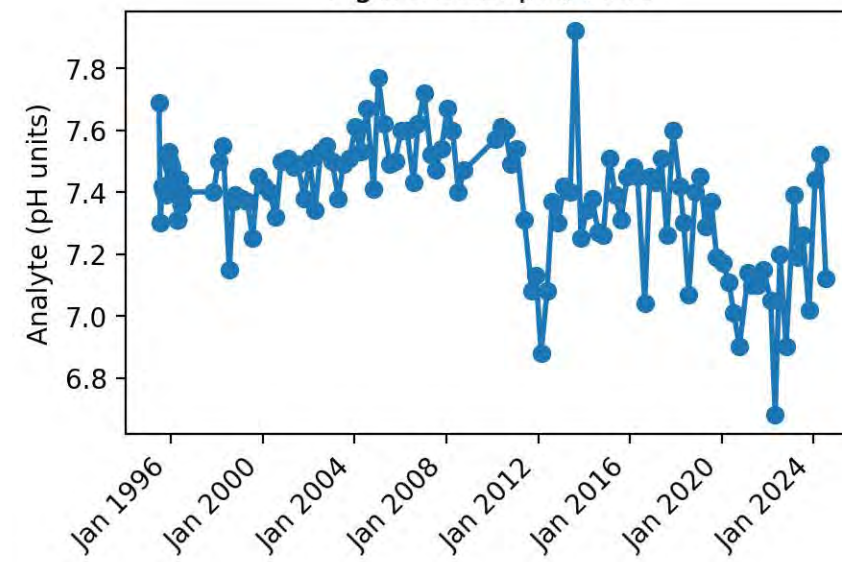


Figure 21c. Specific Conductance, Field

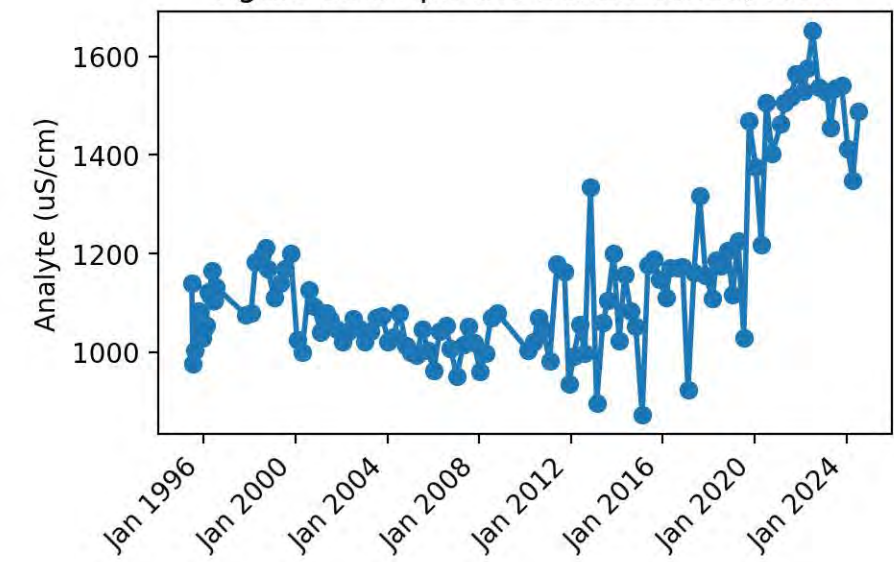


Figure 21d. Magnesium

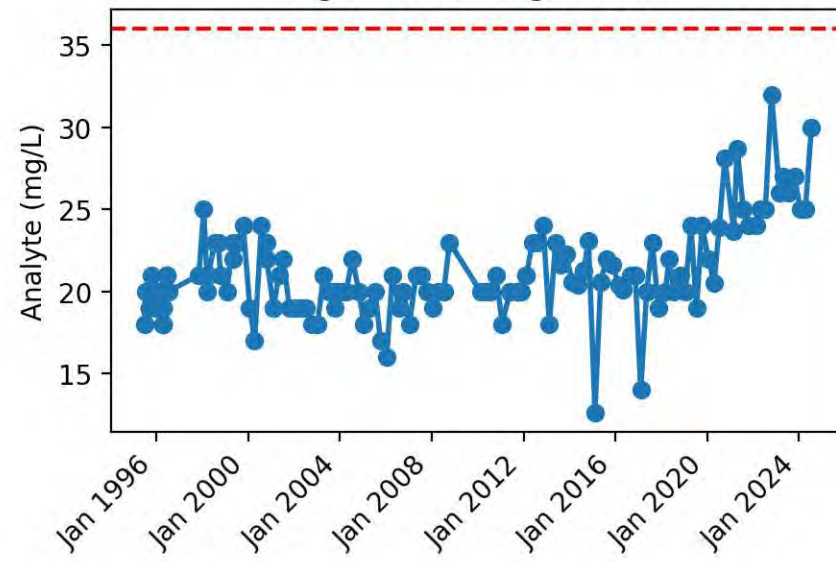


Figure 21e. Sulfate

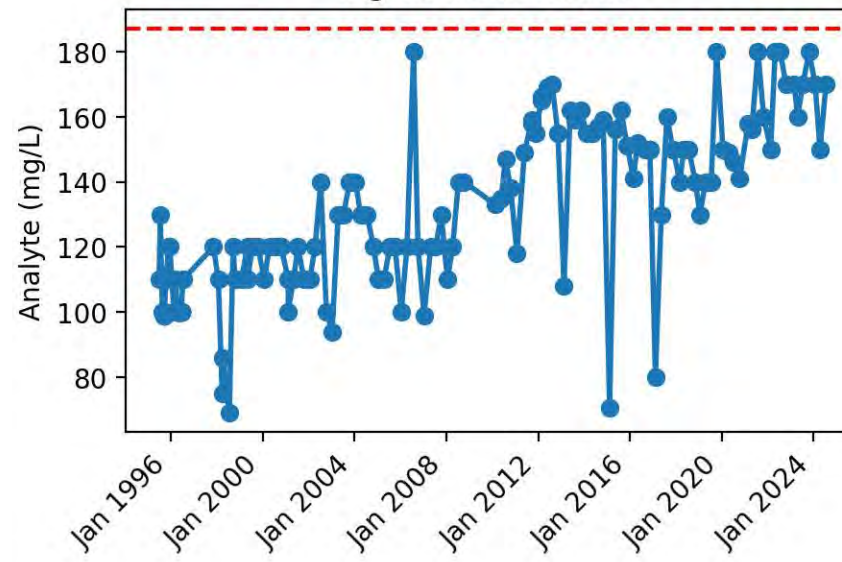


Figure 21f. Fluoride

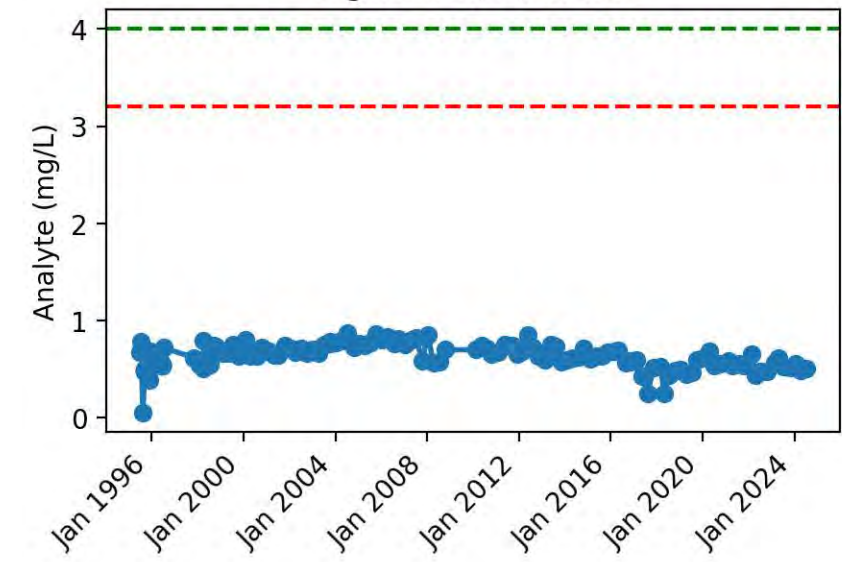
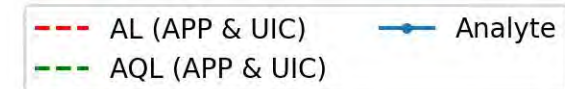
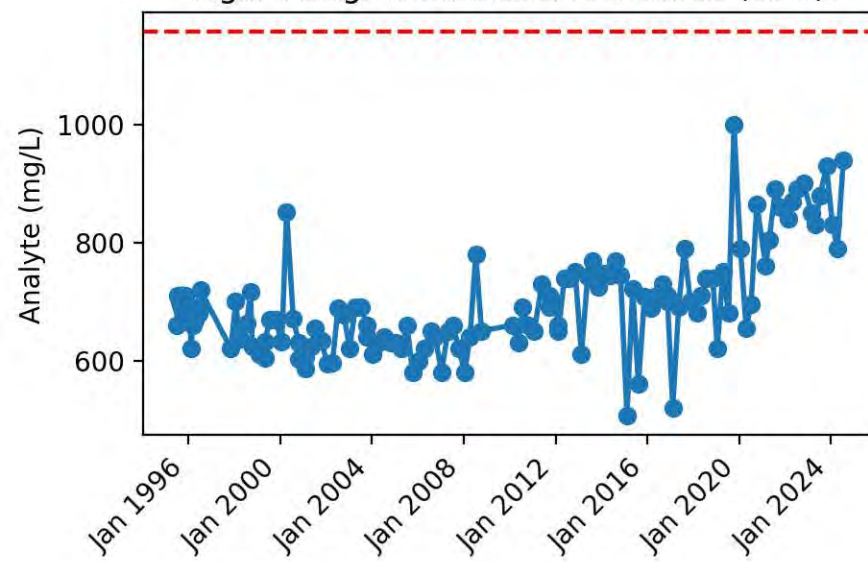


Figure 21g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M16-GU(R) Quarterly Analyte Graphs

Figure 3a. Temperature, Field

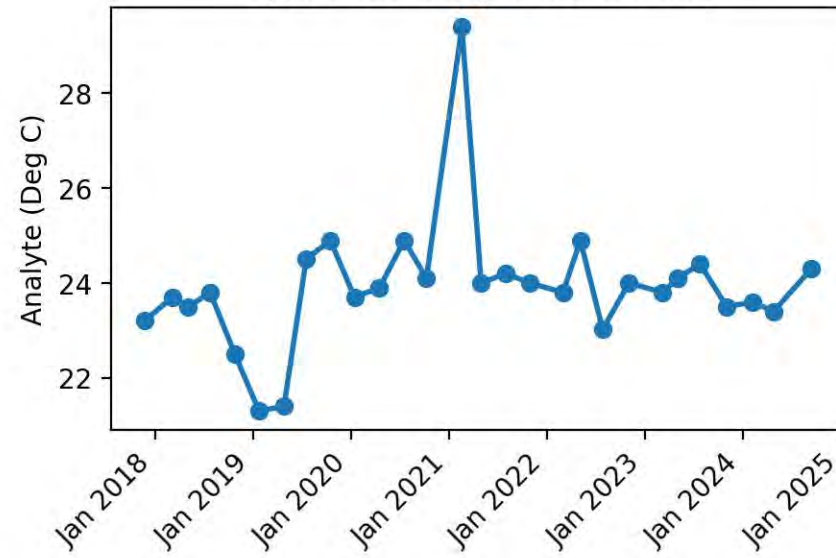


Figure 3b. pH, Field

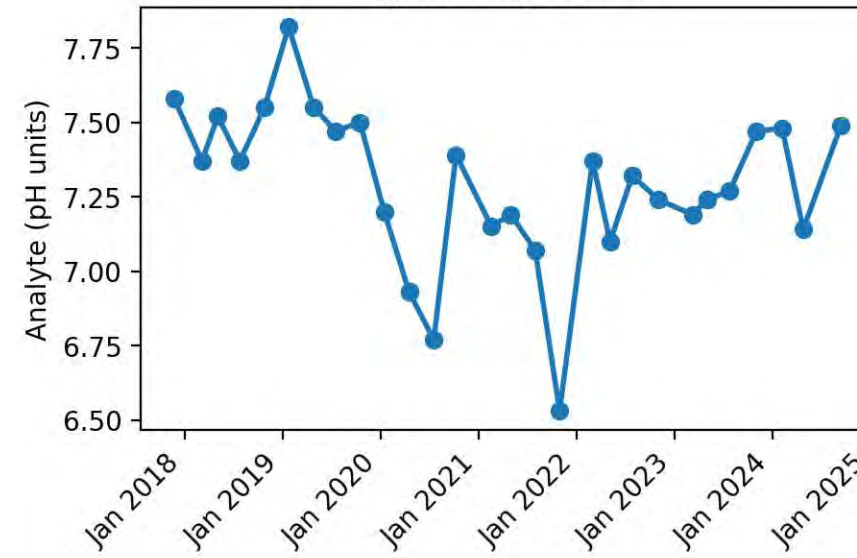


Figure 3c. Specific Conductance, Field

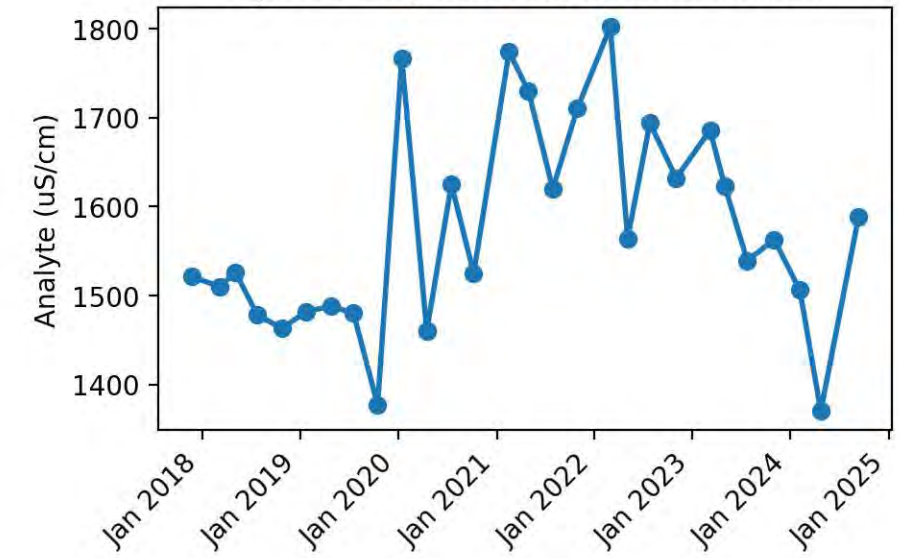


Figure 3d. Magnesium

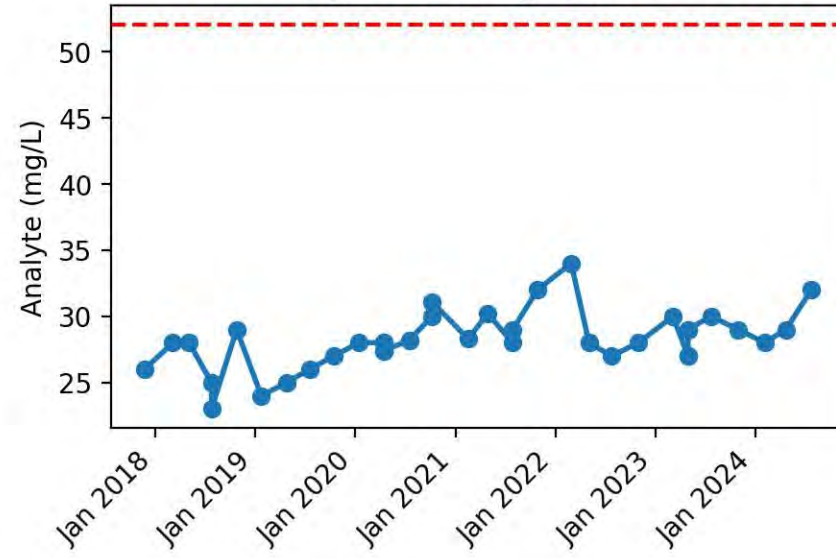


Figure 3e. Sulfate

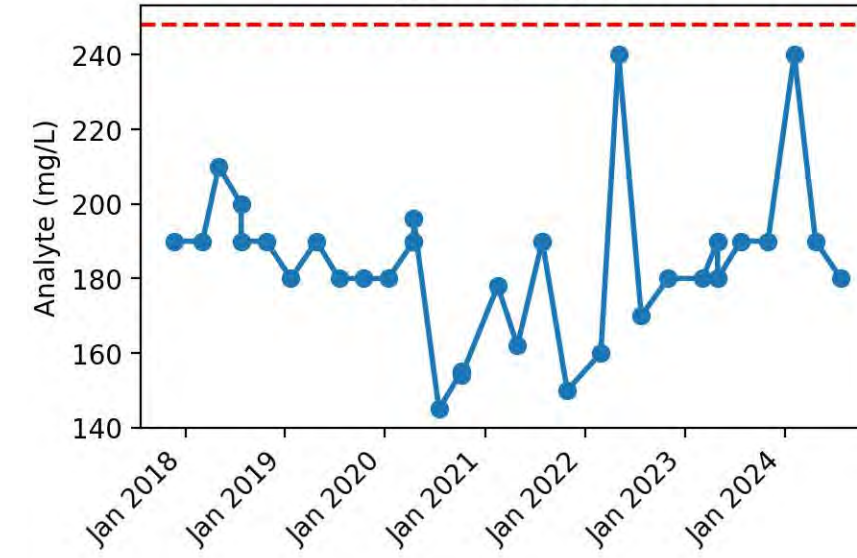


Figure 3f. Fluoride

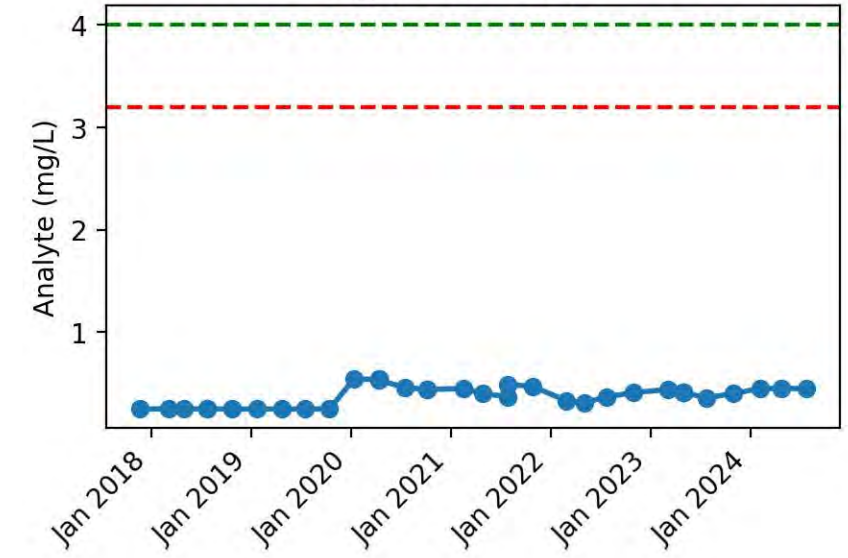
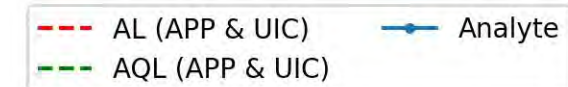
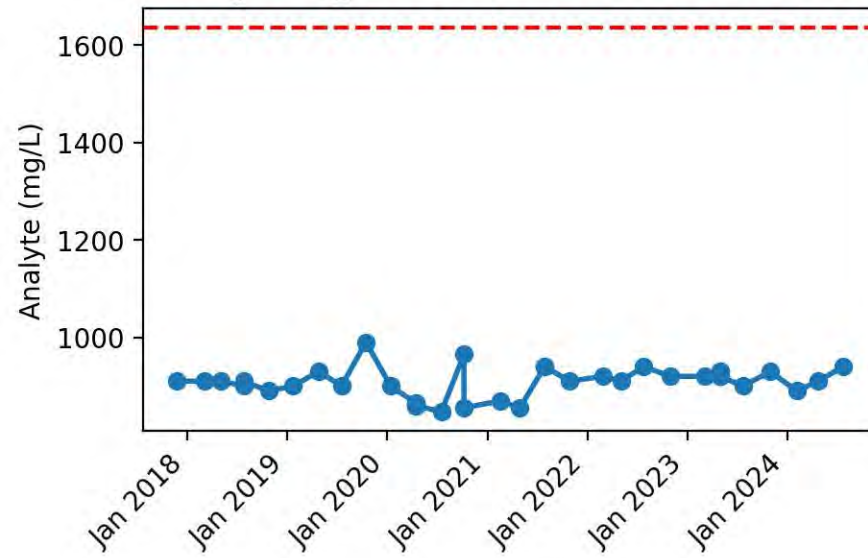


Figure 3g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M17-GL Quarterly Analyte Graphs

Figure 4a. Temperature, Field

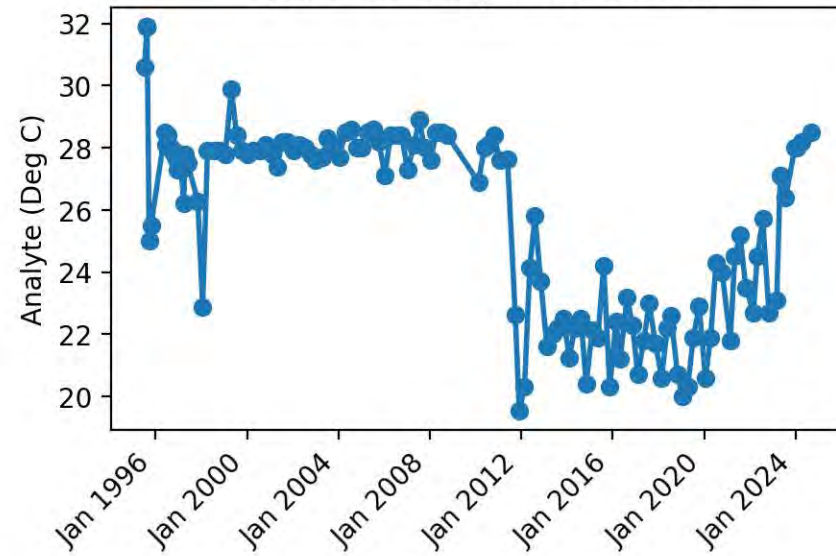


Figure 4b. pH, Field

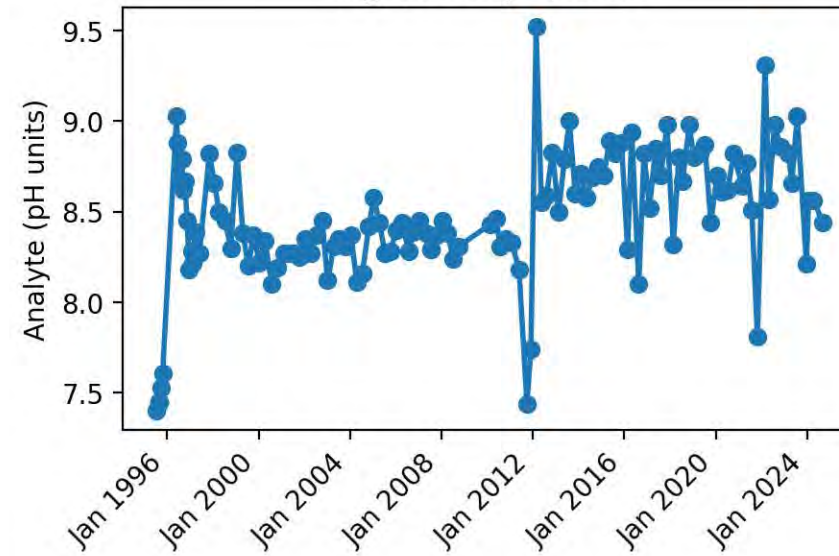


Figure 4c. Specific Conductance, Field

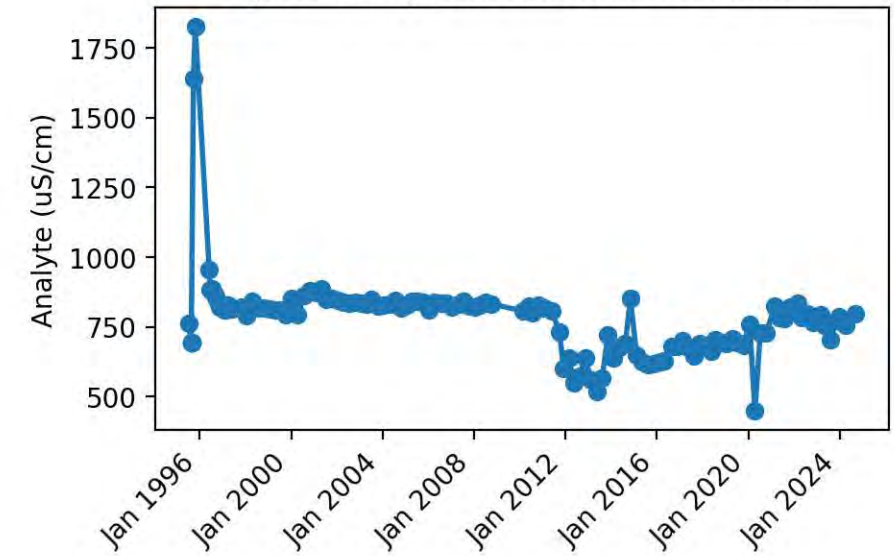


Figure 4d. Magnesium

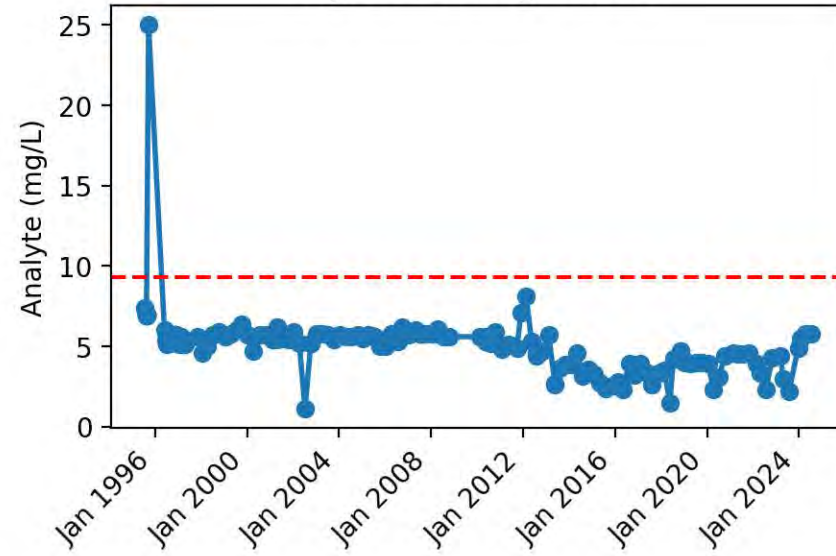


Figure 4e. Sulfate

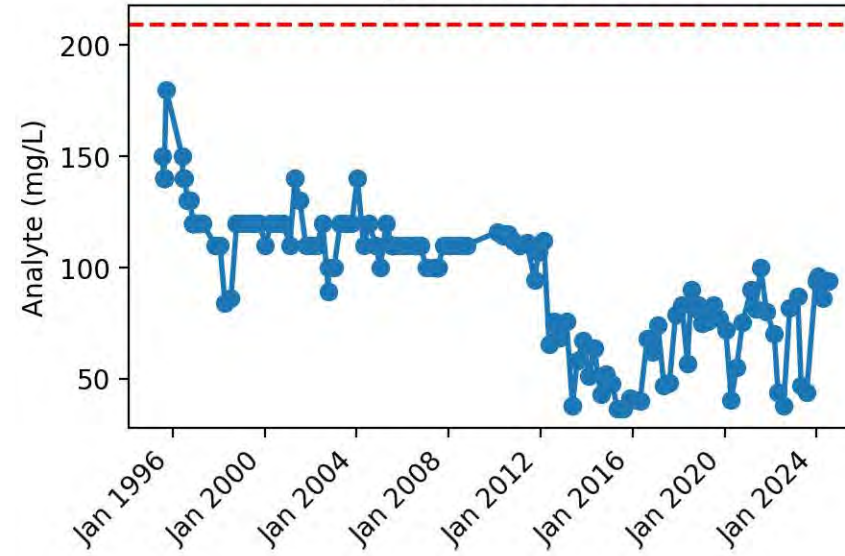


Figure 4f. Fluoride

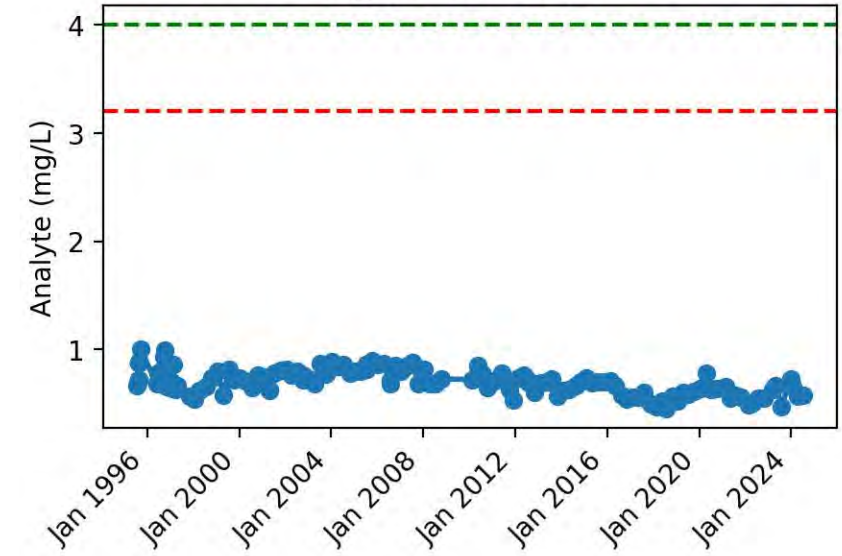
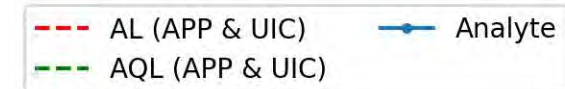
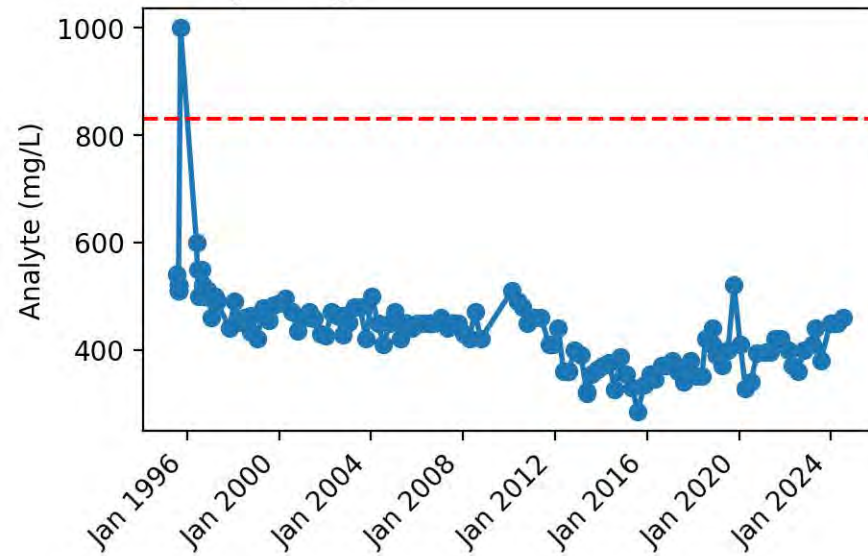


Figure 4g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M18-GU Quarterly Analyte Graphs

Figure 5a. Temperature, Field

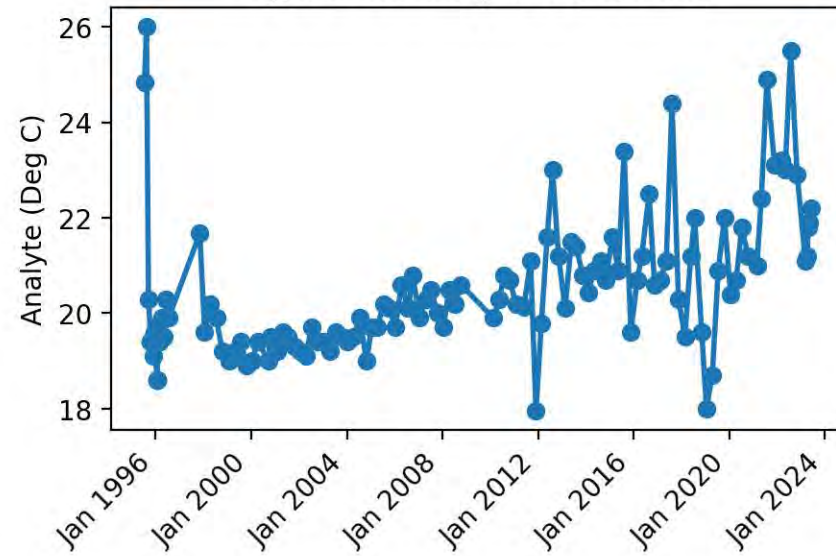


Figure 5b. pH, Field

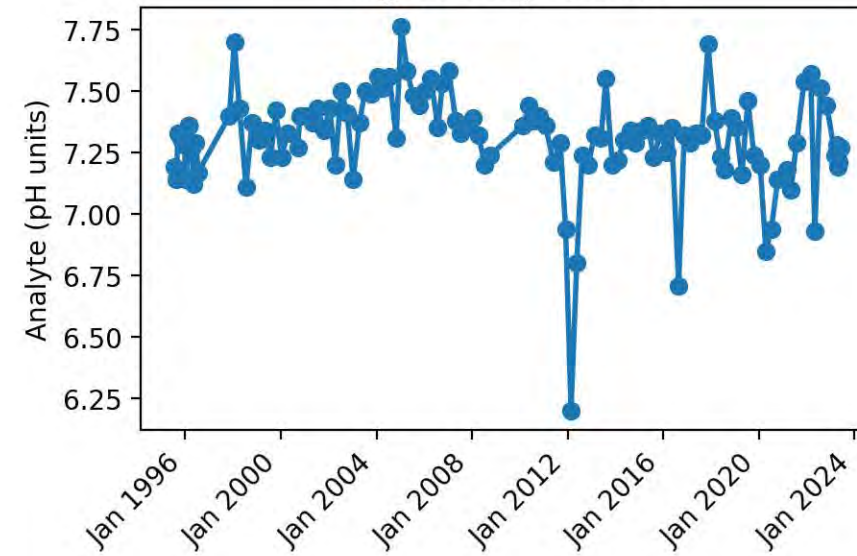


Figure 5c. Specific Conductance, Field

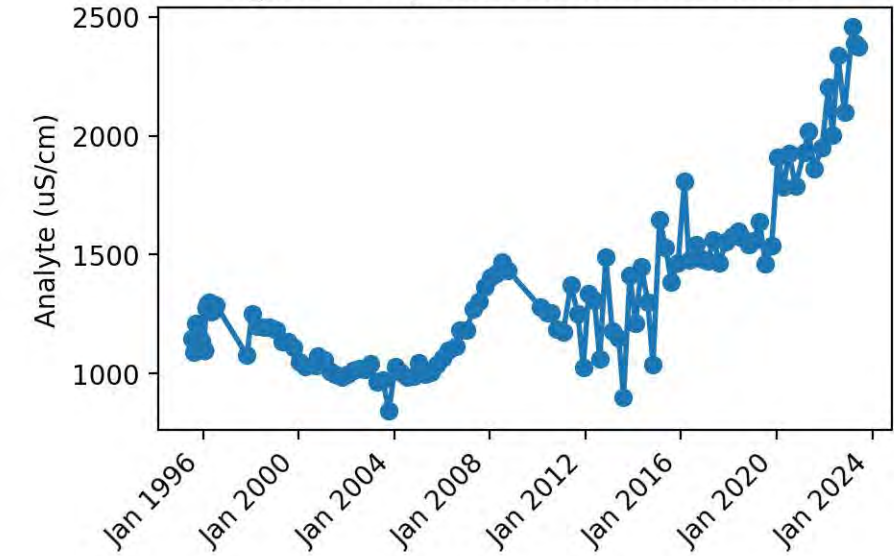


Figure 5d. Magnesium

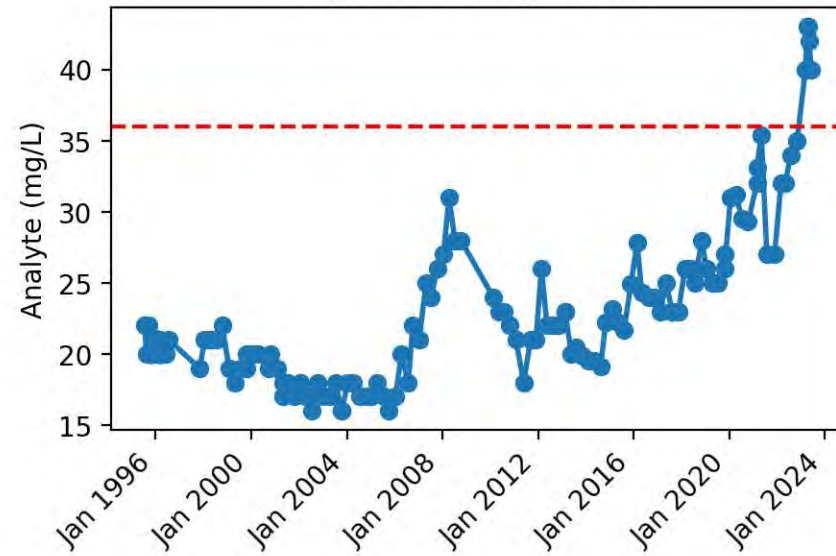


Figure 5e. Sulfate

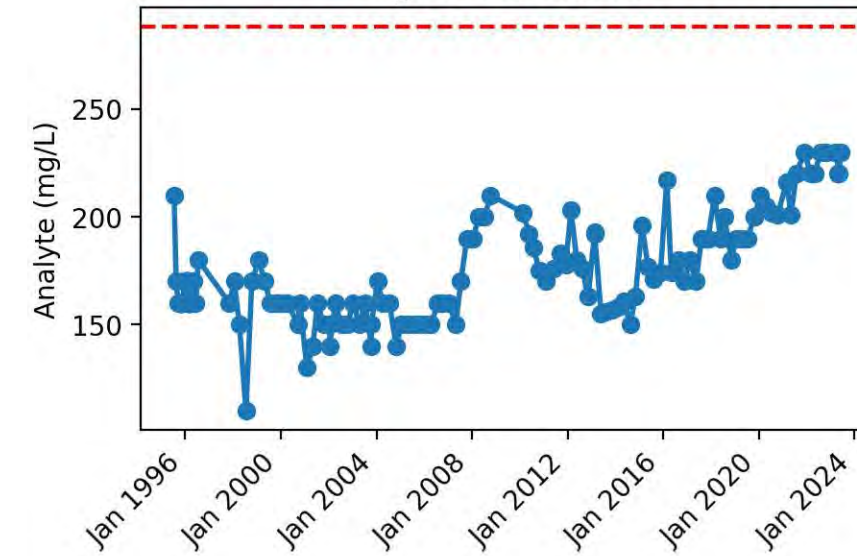


Figure 5f. Fluoride

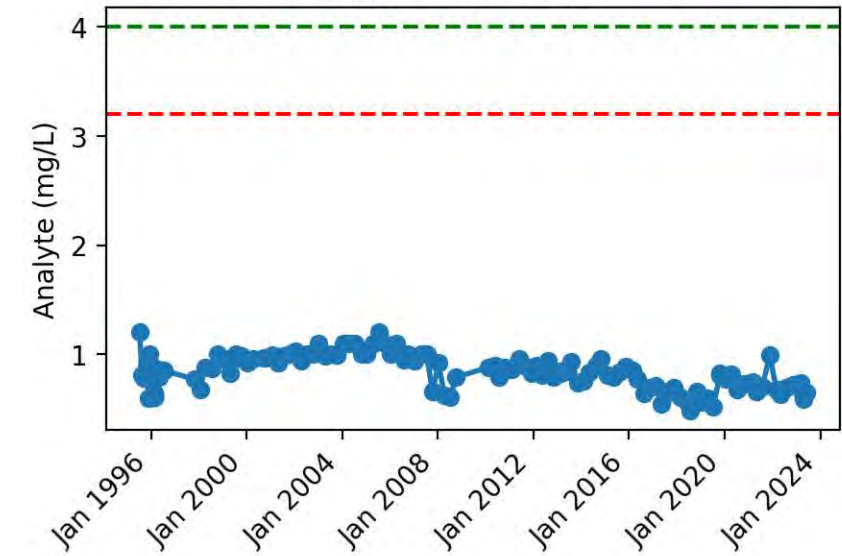
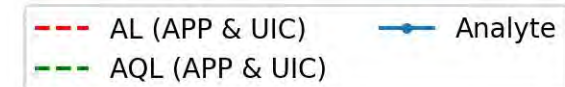
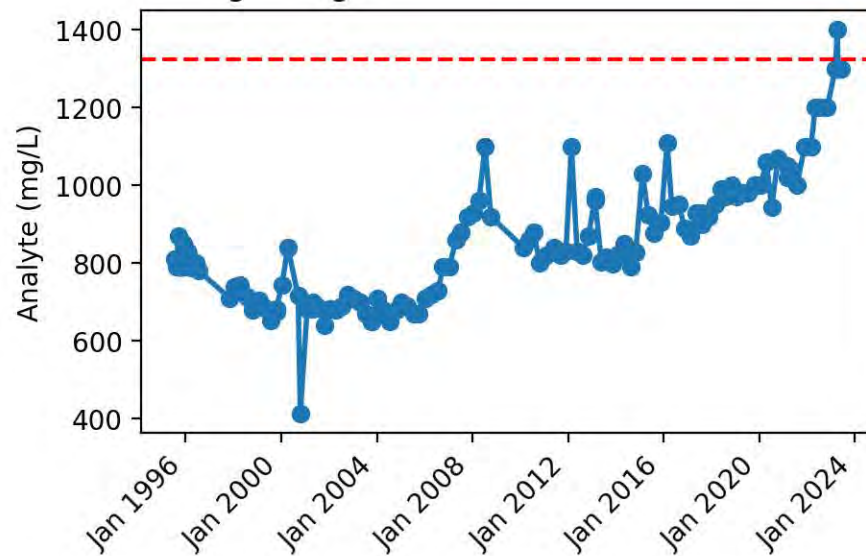


Figure 5g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M19-LBF Quarterly Analyte Graphs

Figure 6a. Temperature, Field

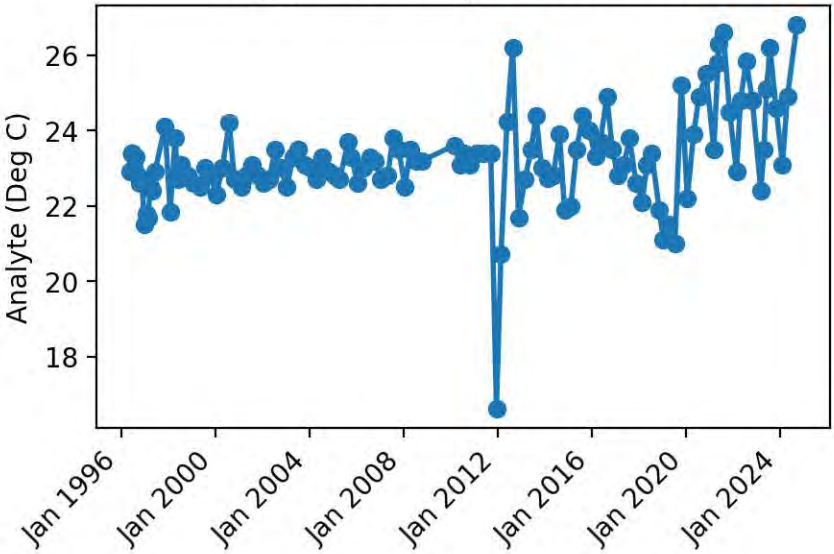


Figure 6b. pH, Field

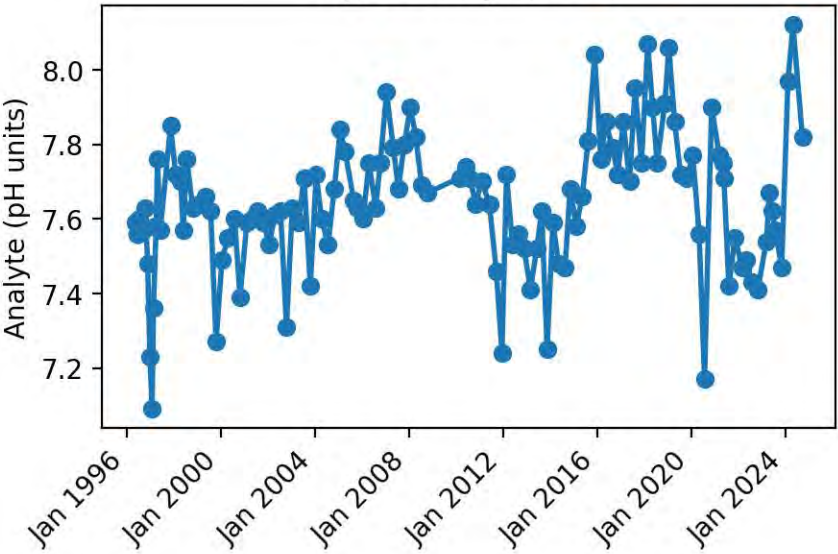


Figure 6c. Specific Conductance, Field

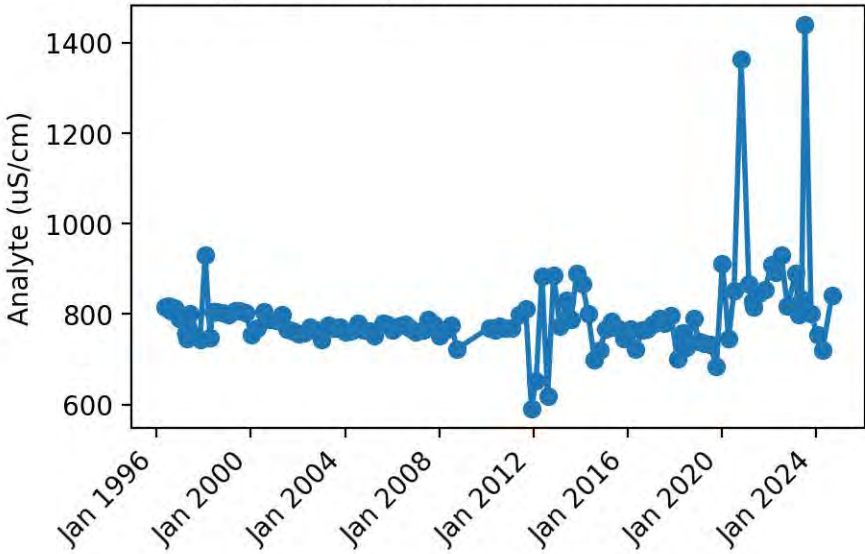


Figure 6d. Magnesium

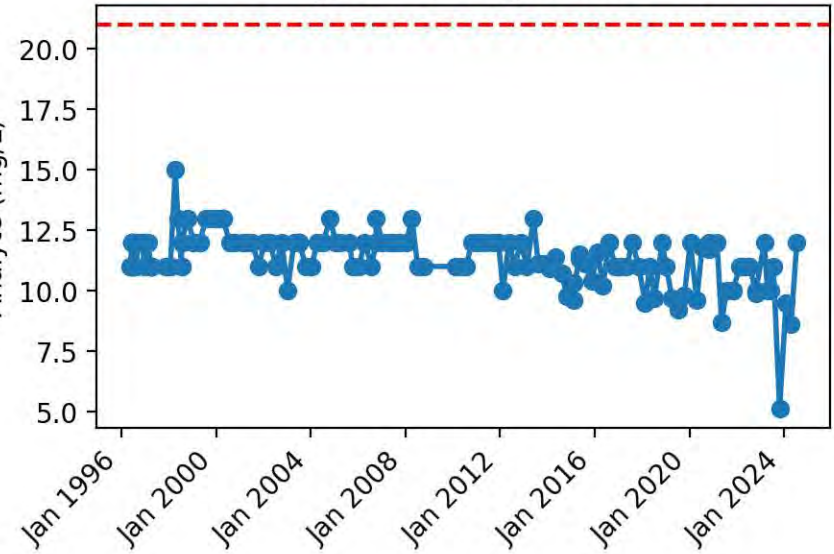


Figure 6e. Sulfate

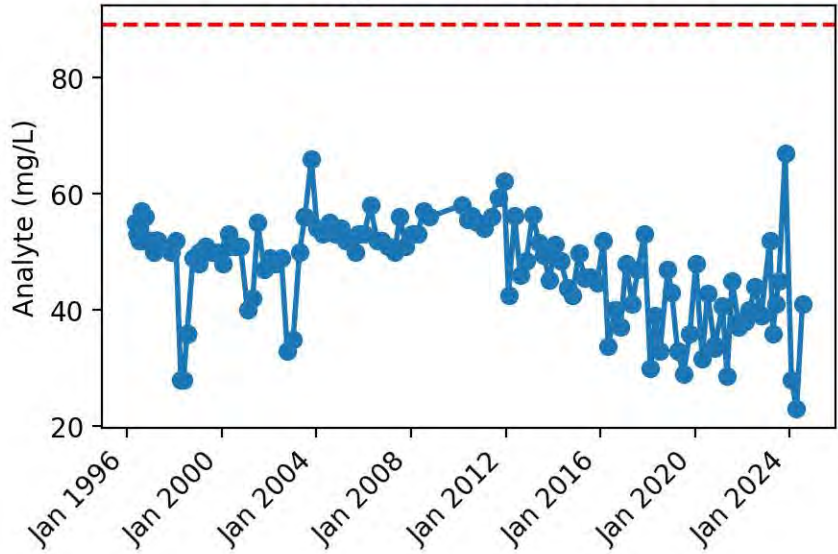


Figure 6f. Fluoride

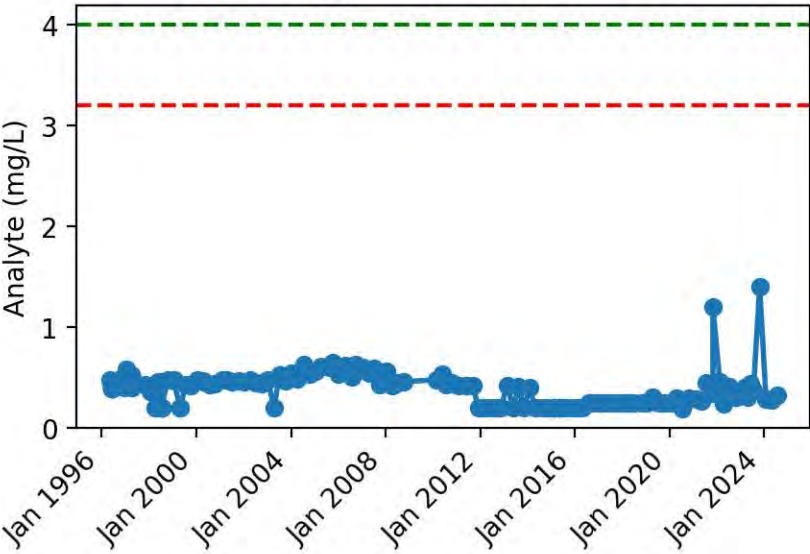
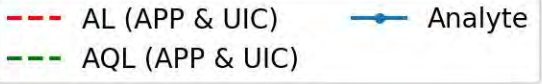
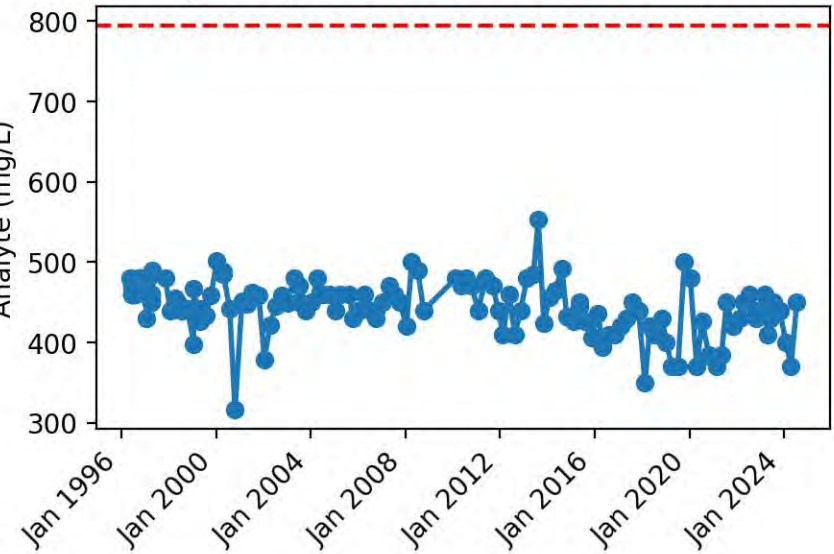


Figure 6g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M1-GL Quarterly Analyte Graphs

Figure 7a. Temperature, Field

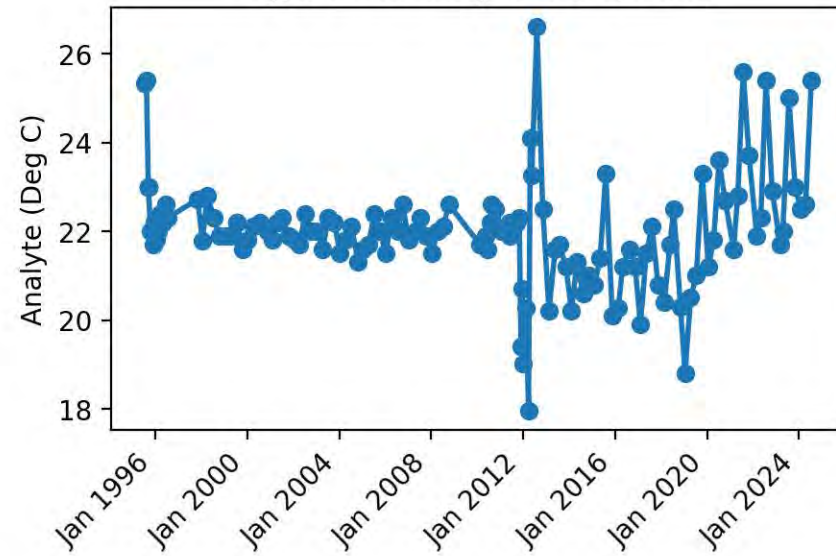


Figure 7b. pH, Field

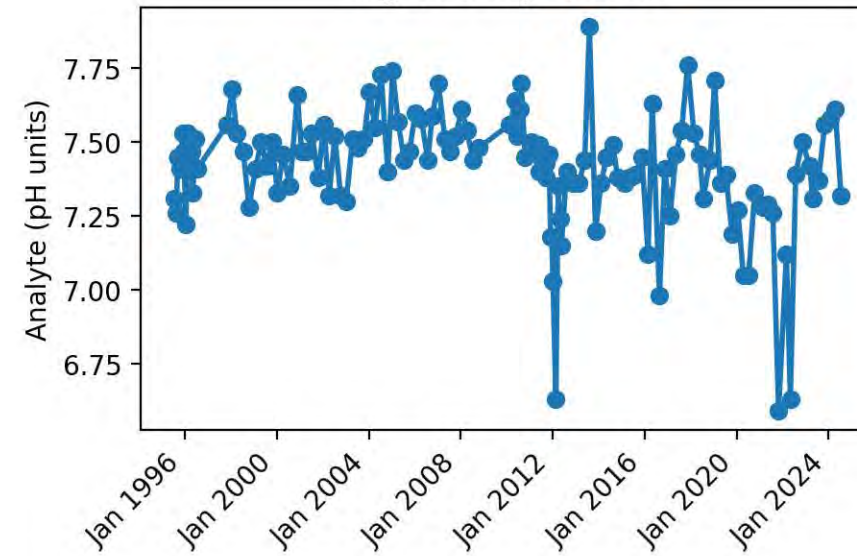


Figure 7c. Specific Conductance, Field

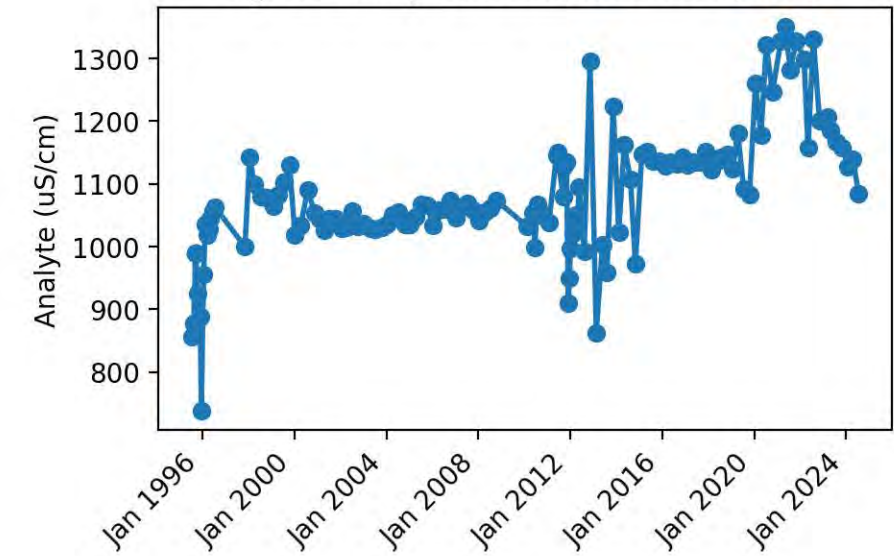


Figure 7d. Magnesium

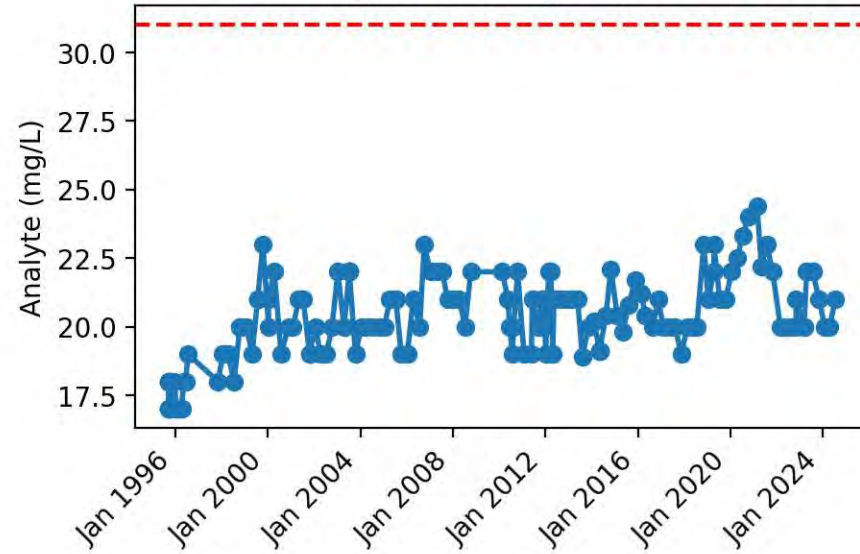


Figure 7e. Sulfate

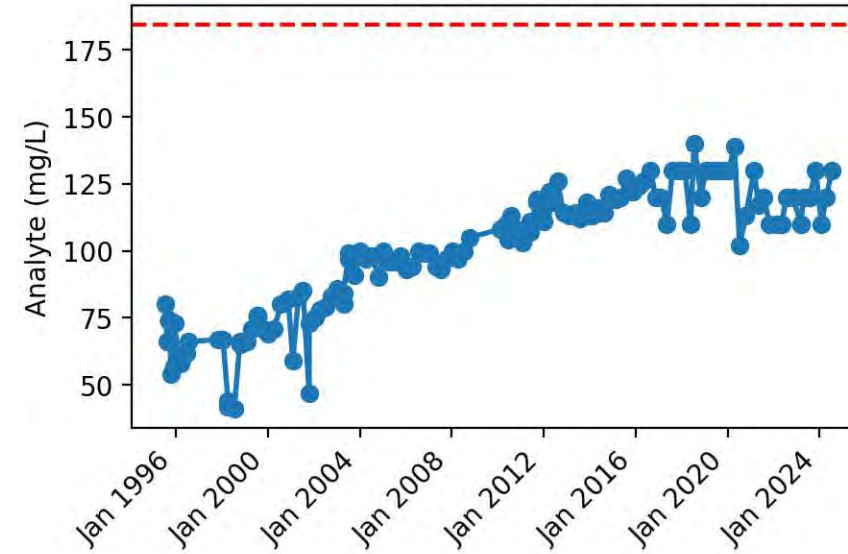


Figure 7f. Fluoride

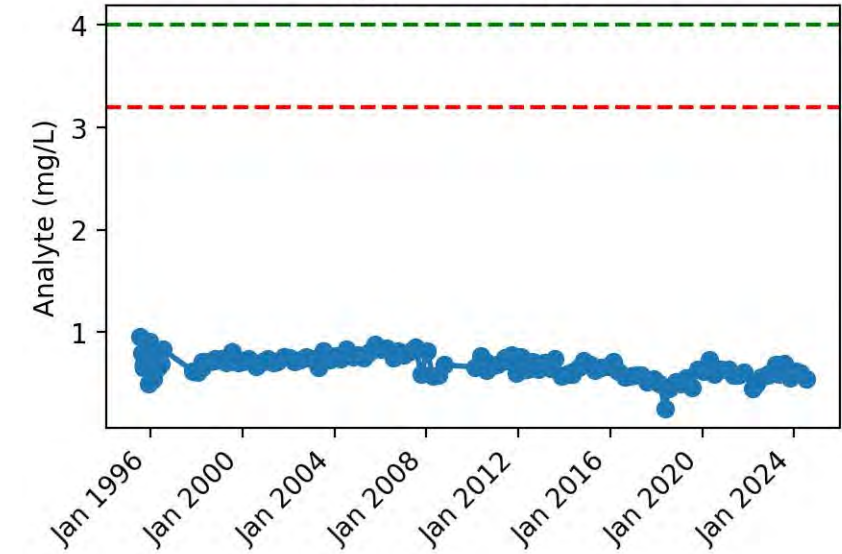
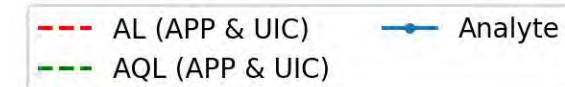
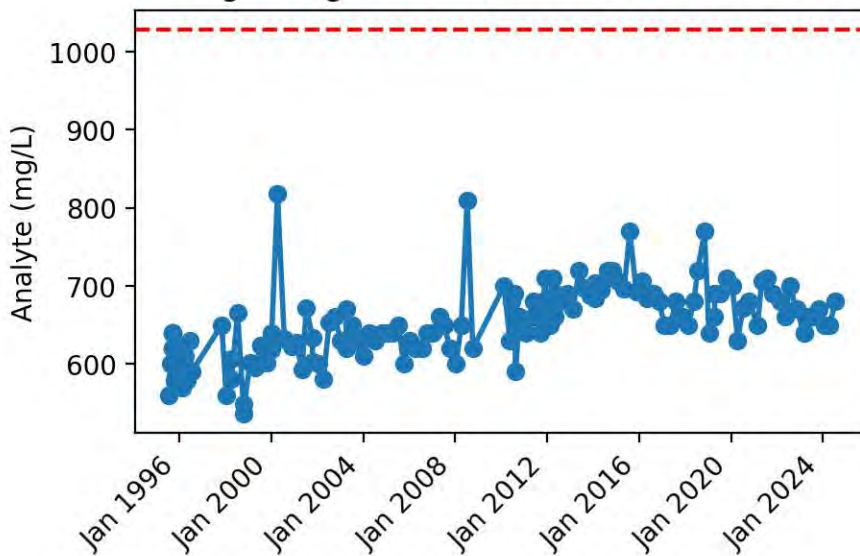


Figure 7g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M20-O(R) Quarterly Analyte Graphs

Figure 8a. Temperature, Field

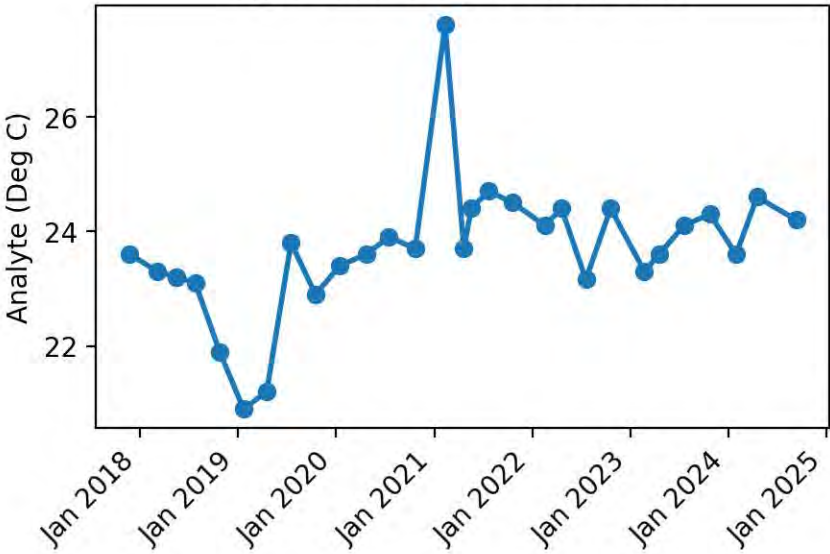


Figure 8b. pH, Field

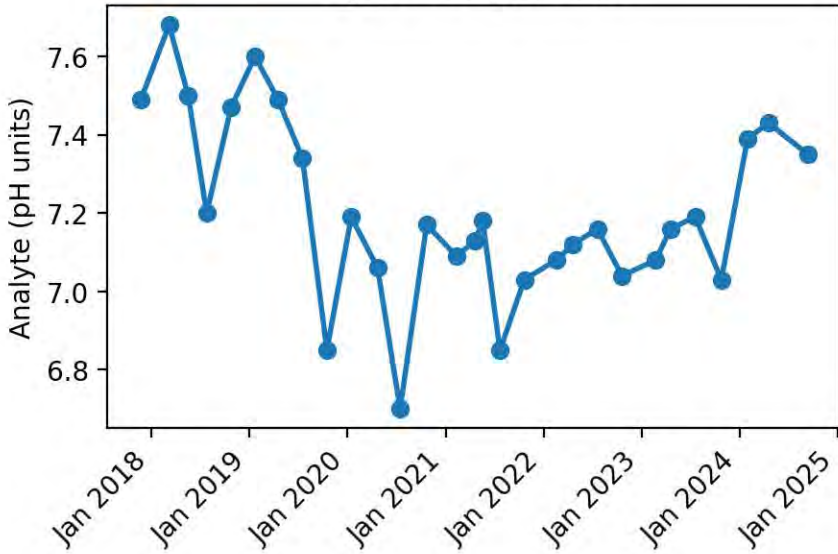


Figure 8c. Specific Conductance, Field

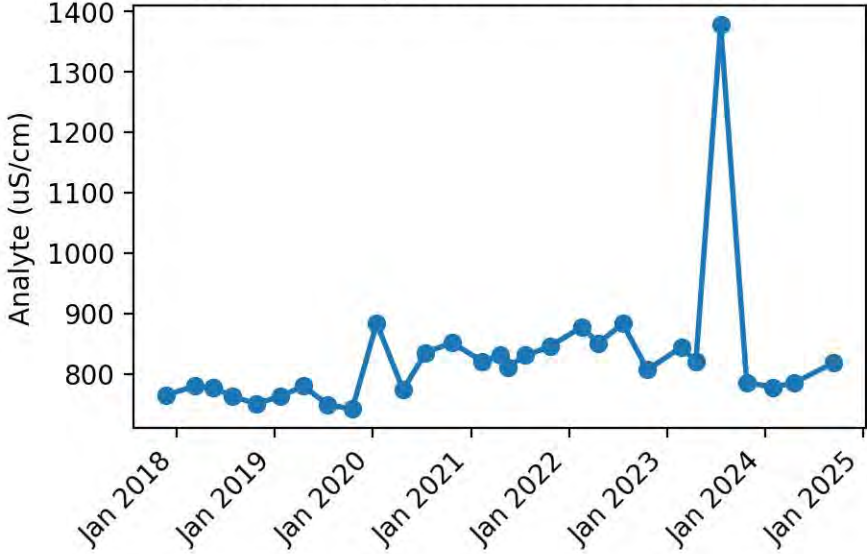


Figure 8d. Magnesium

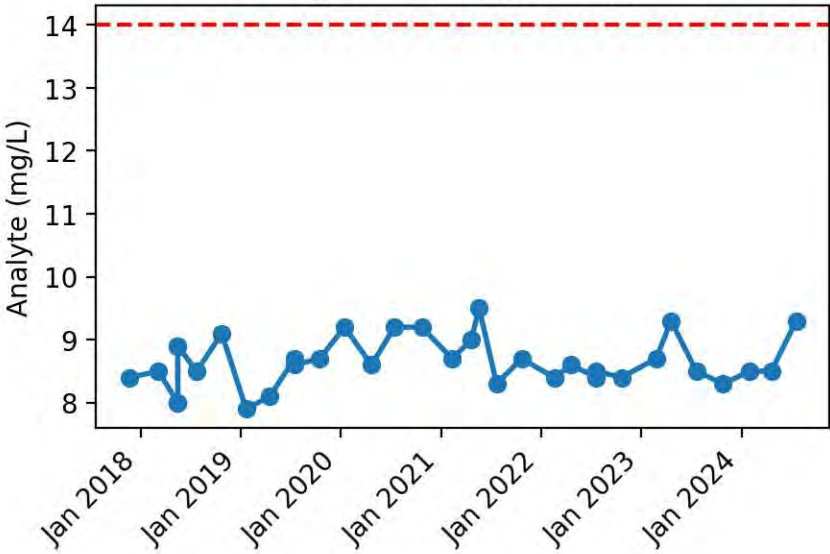


Figure 8e. Sulfate

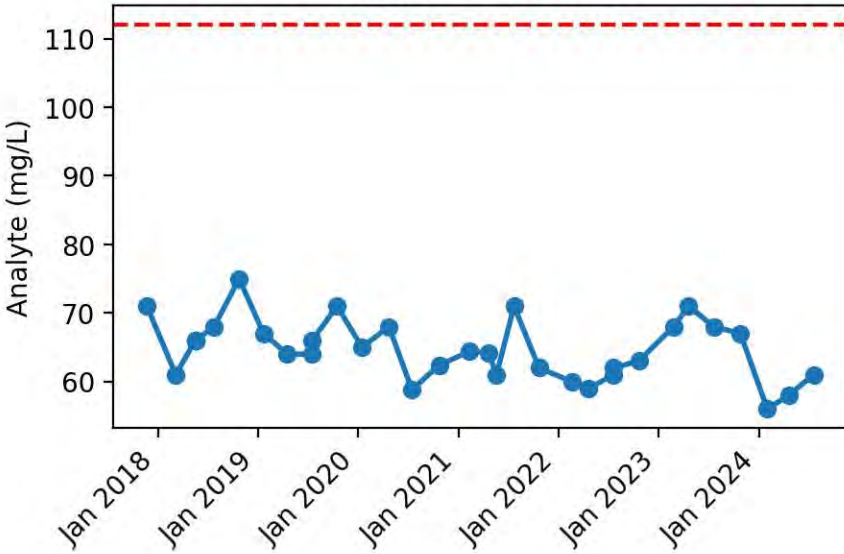


Figure 8f. Fluoride

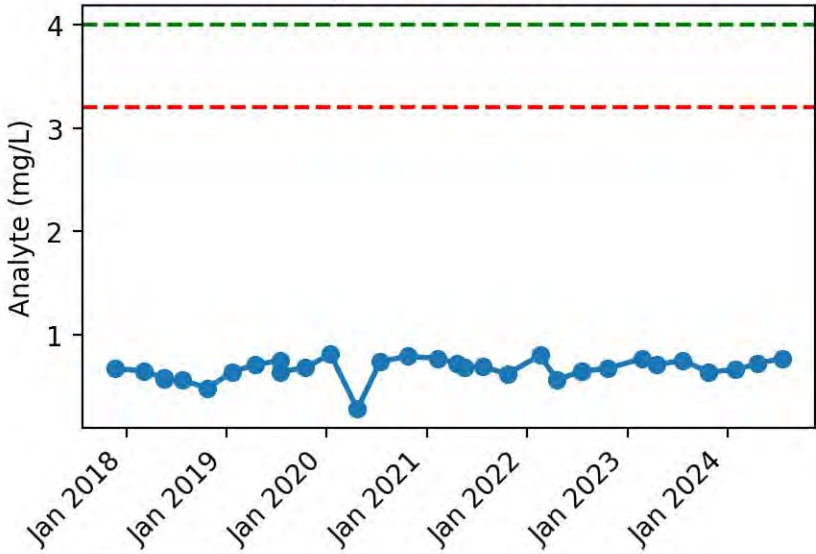
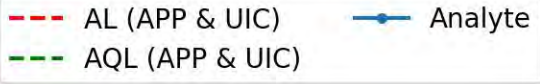
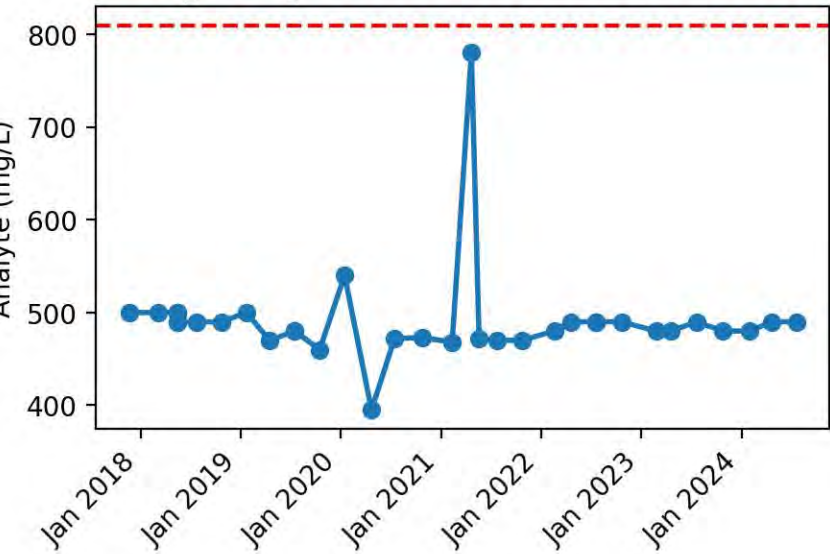
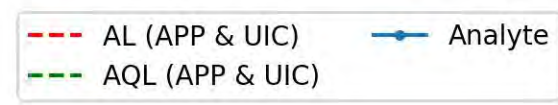
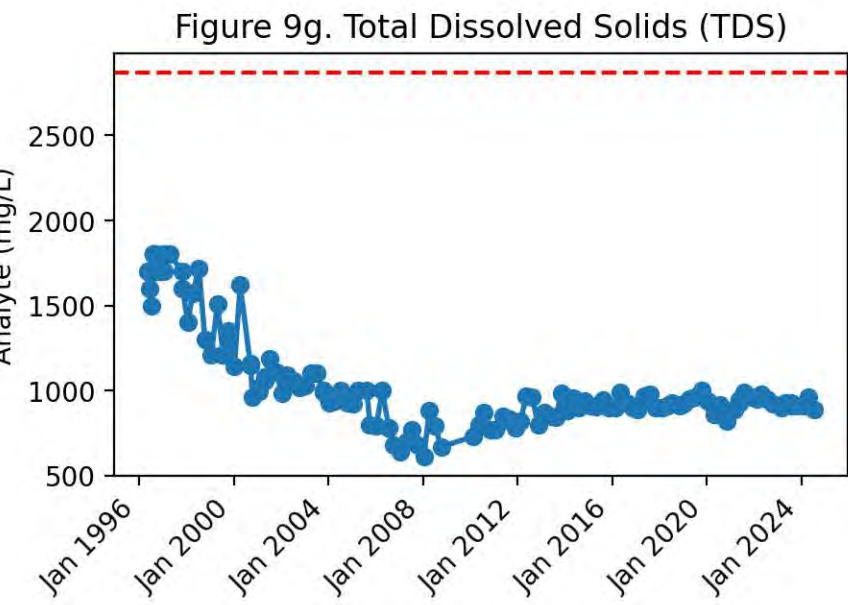
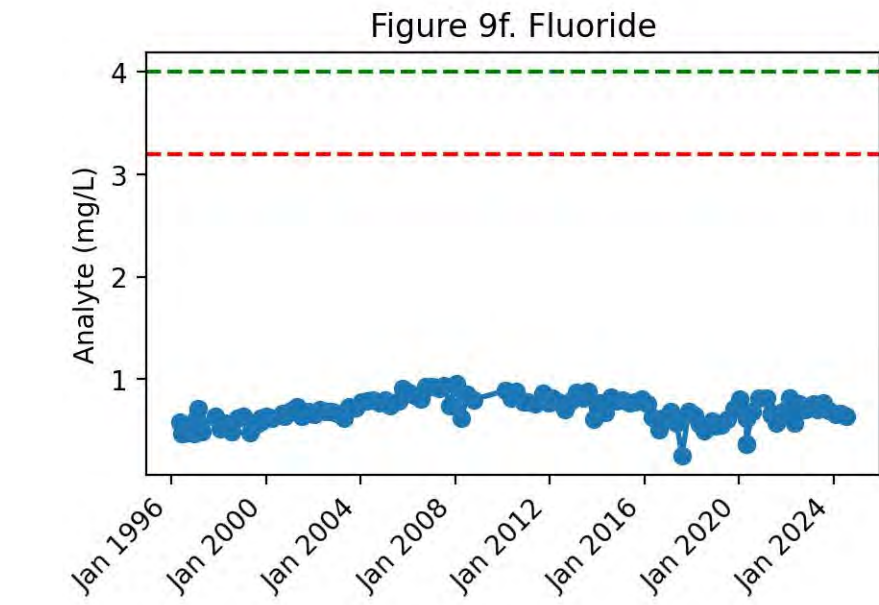
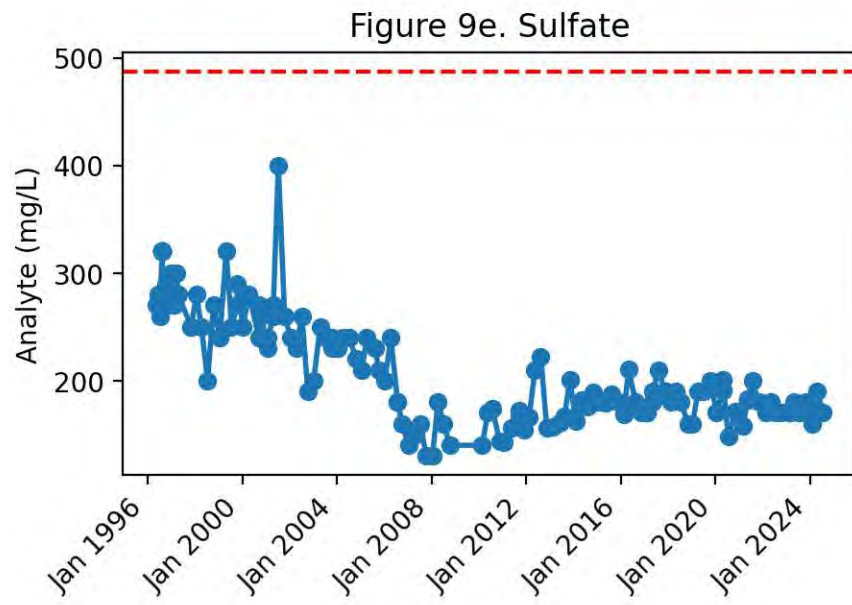
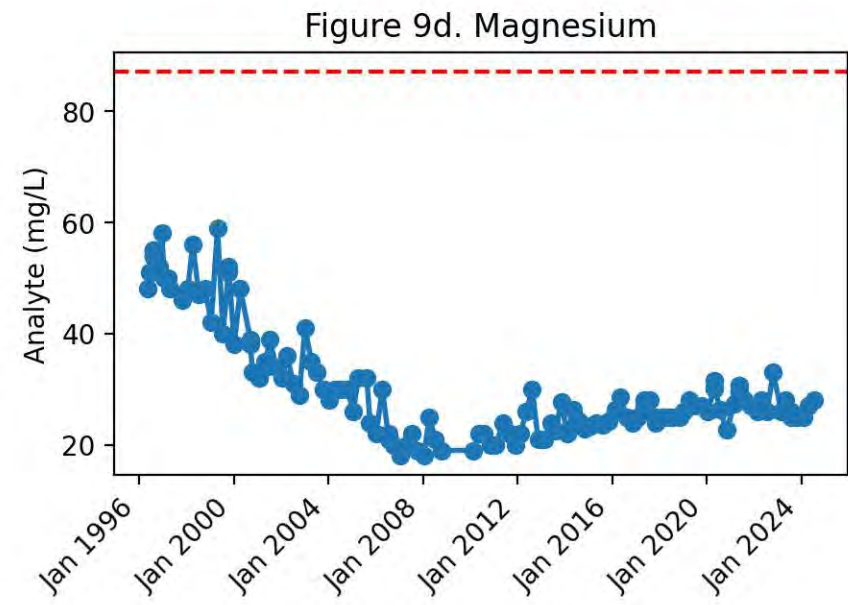
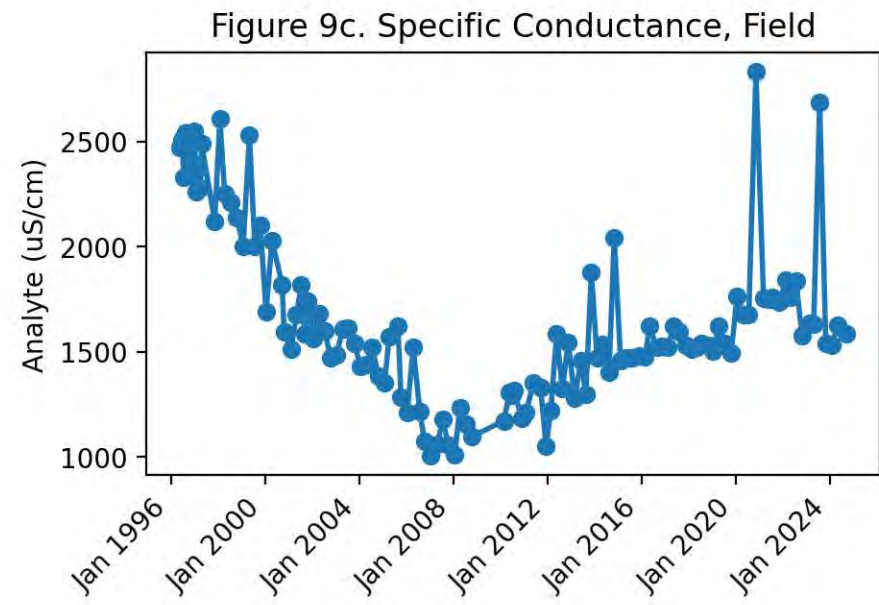
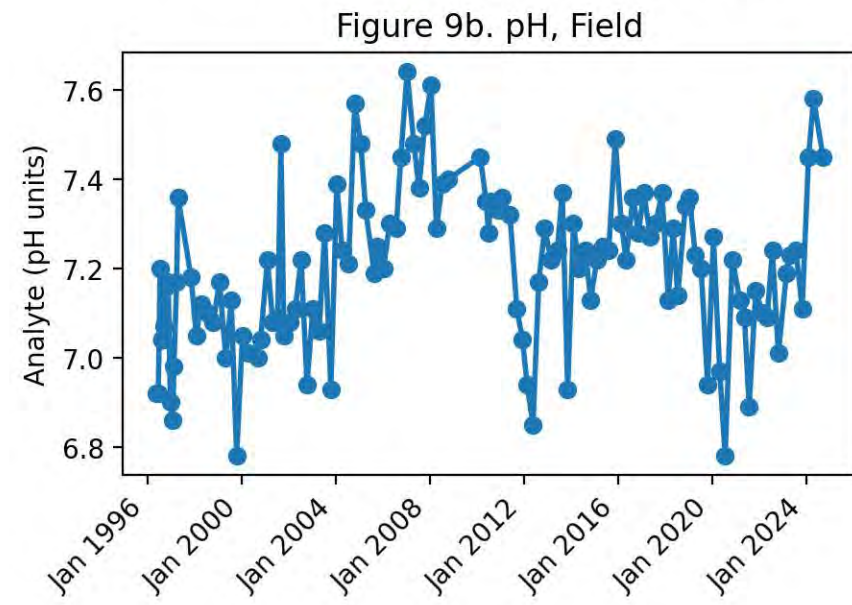
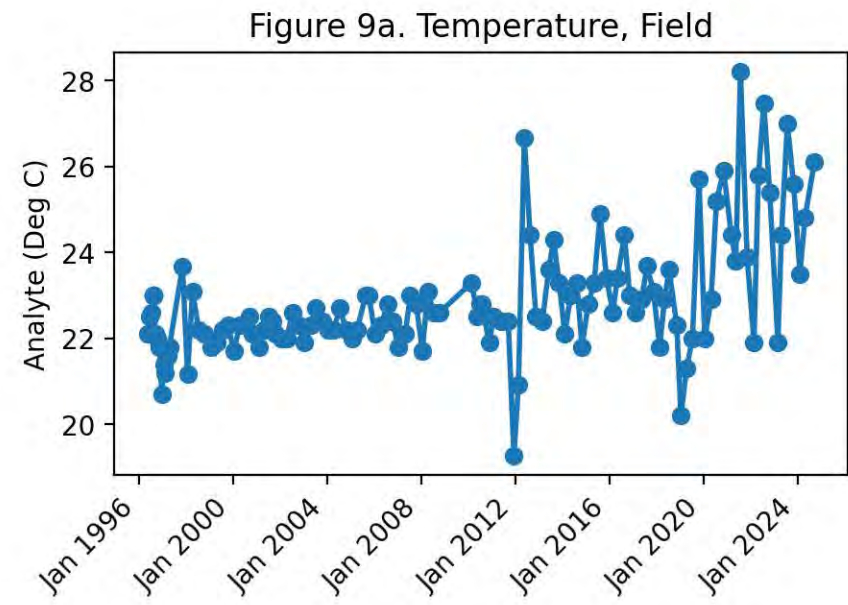


Figure 8g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M21-UBF Quarterly Analyte Graphs



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M22-O Quarterly Analyte Graphs

Figure 10a. Temperature, Field

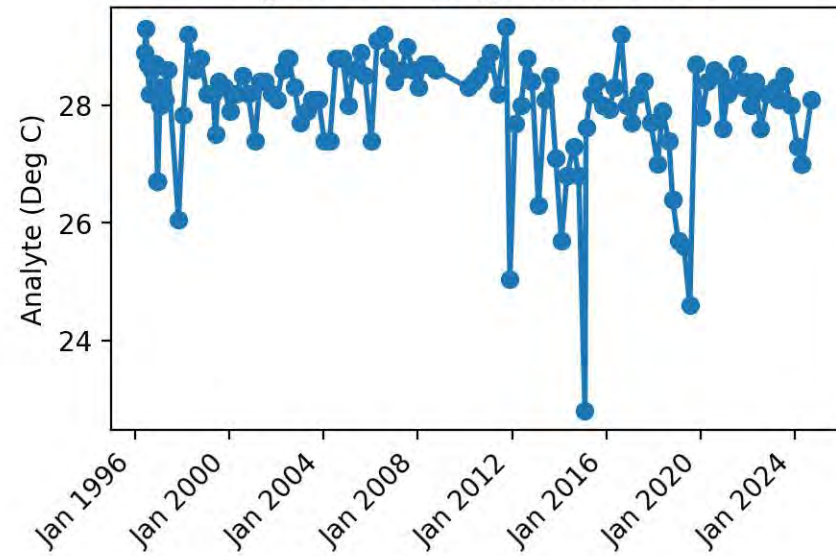


Figure 10b. pH, Field

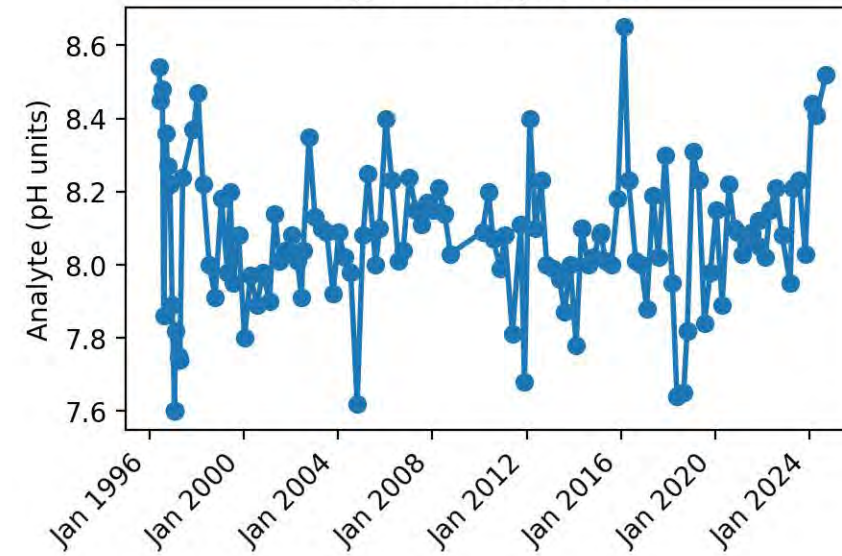


Figure 10c. Specific Conductance, Field

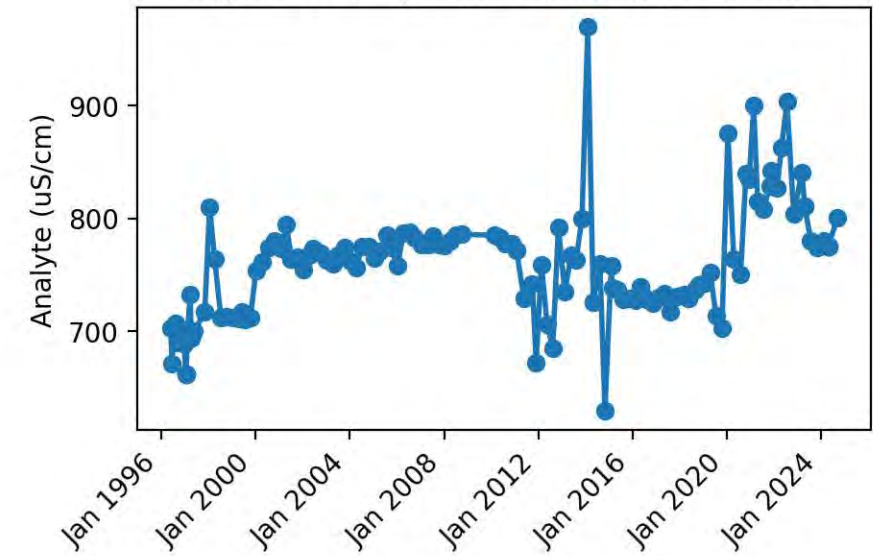


Figure 10d. Magnesium

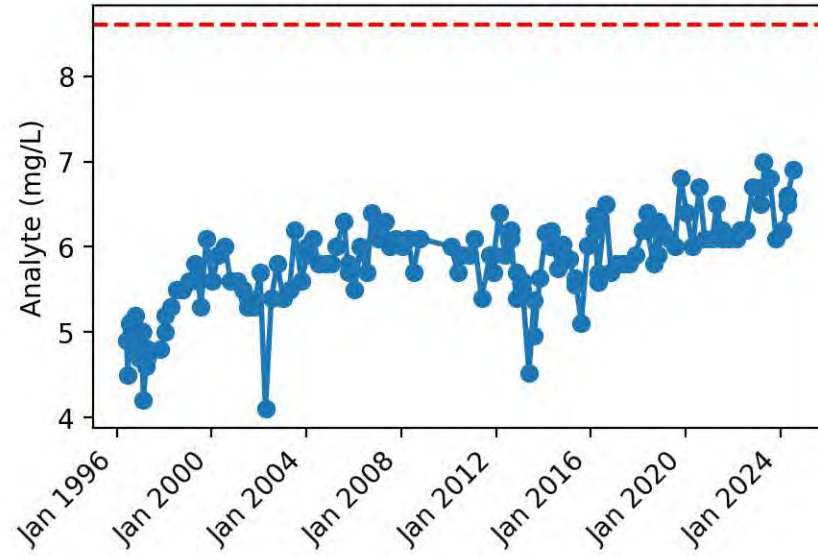


Figure 10e. Sulfate

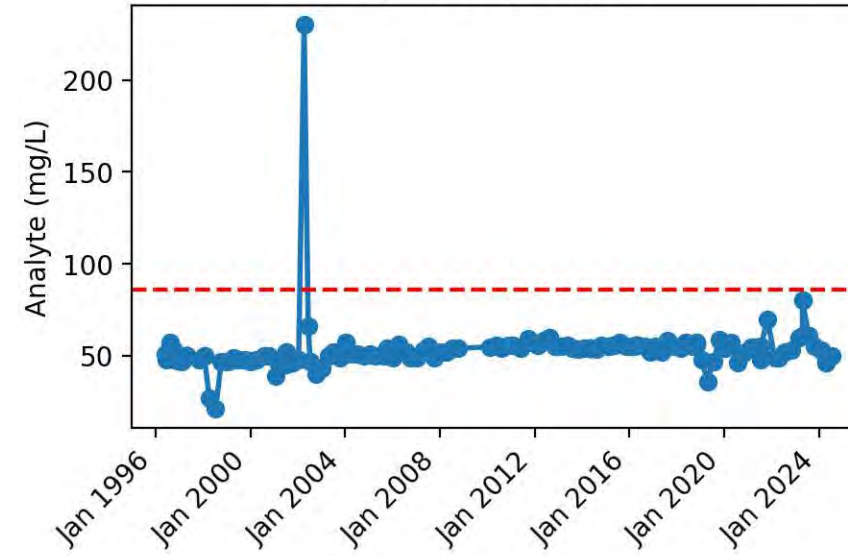


Figure 10f. Fluoride

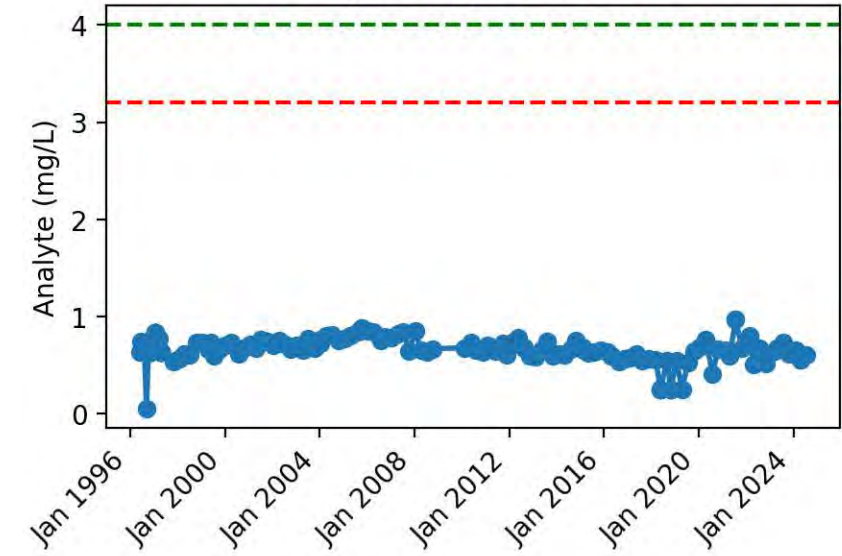
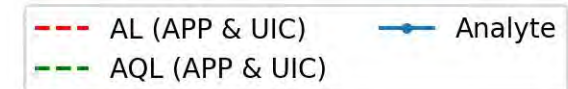
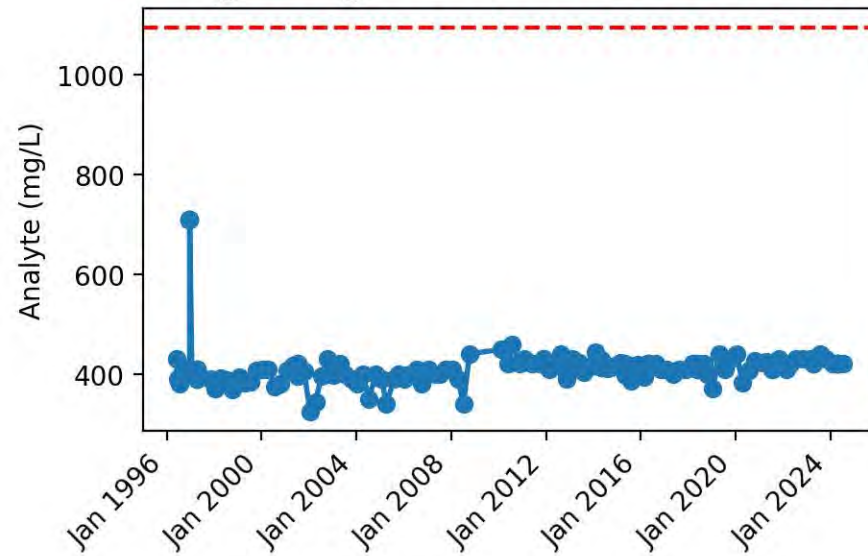


Figure 10g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M23-UBF Quarterly Analyte Graphs

Figure 11a. Temperature, Field

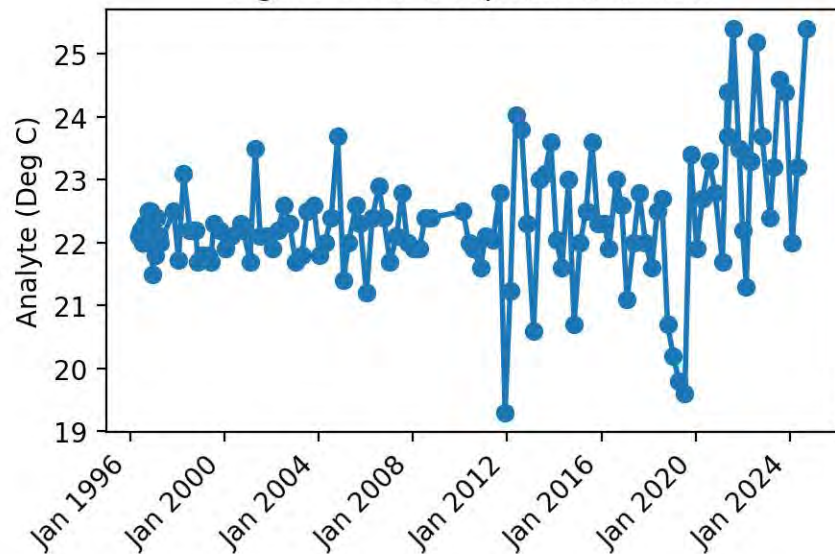


Figure 11b. pH, Field

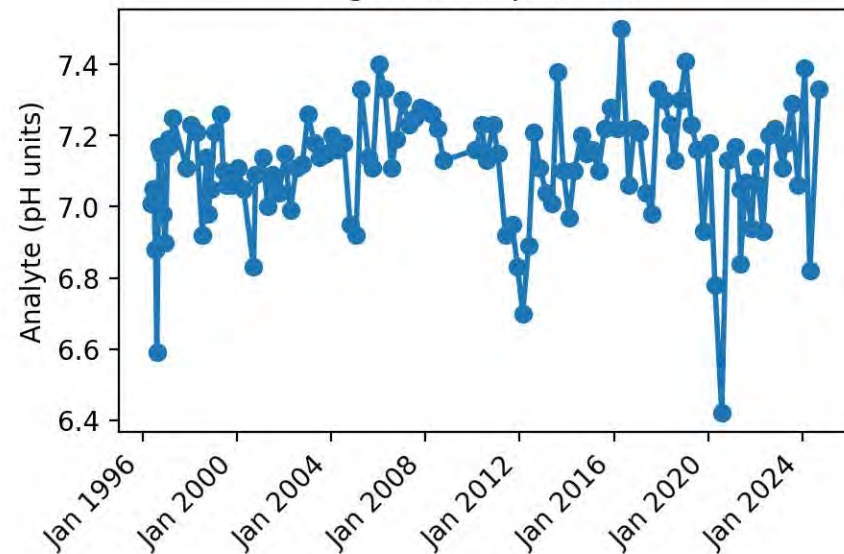


Figure 11c. Specific Conductance, Field

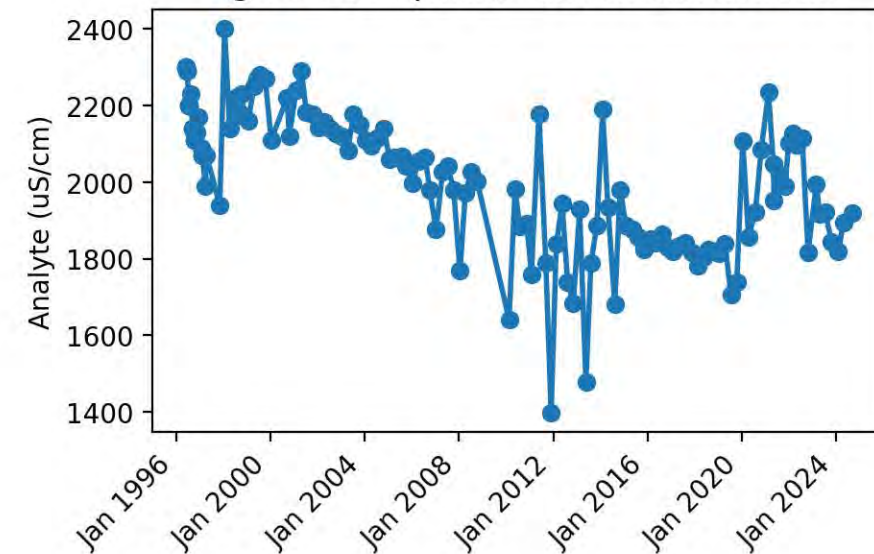


Figure 11d. Magnesium

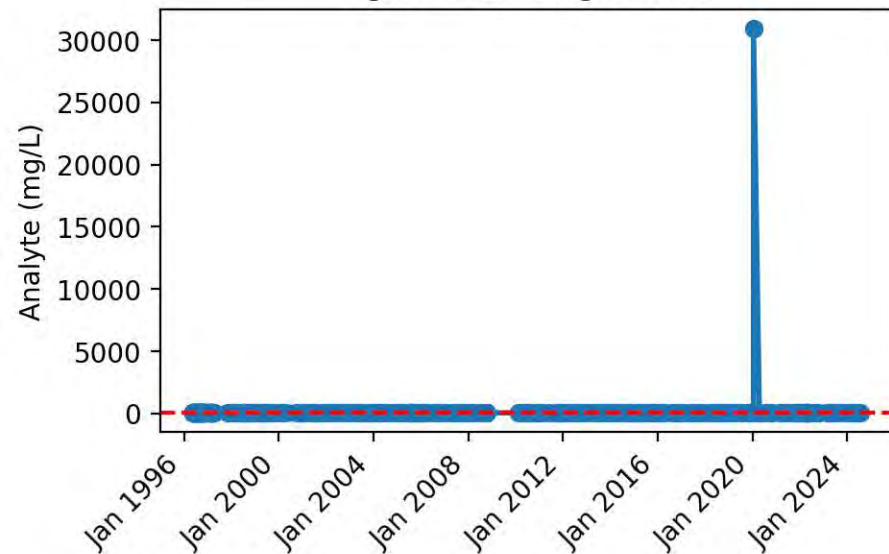


Figure 11e. Sulfate

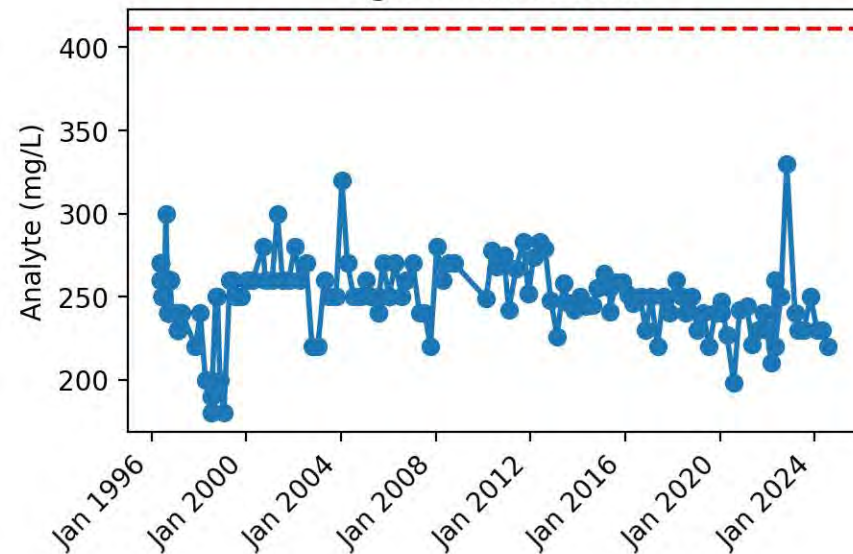


Figure 11f. Fluoride

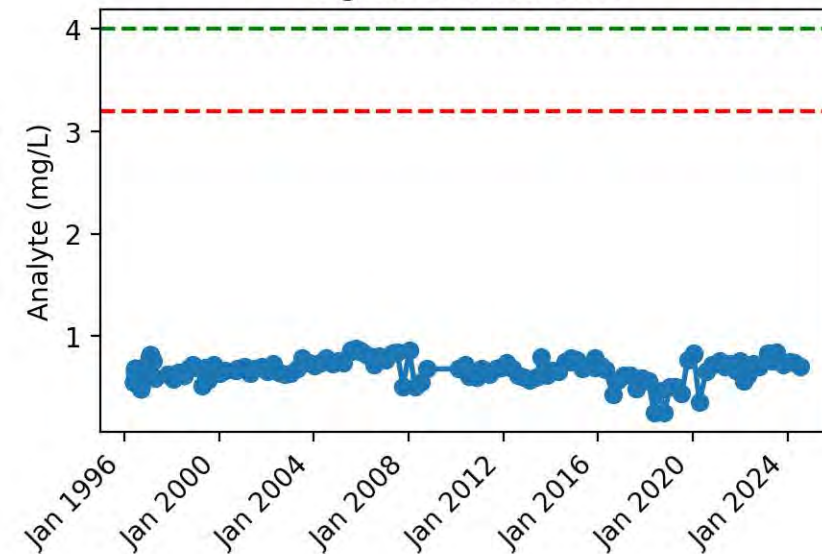
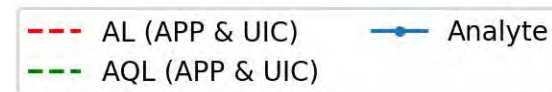
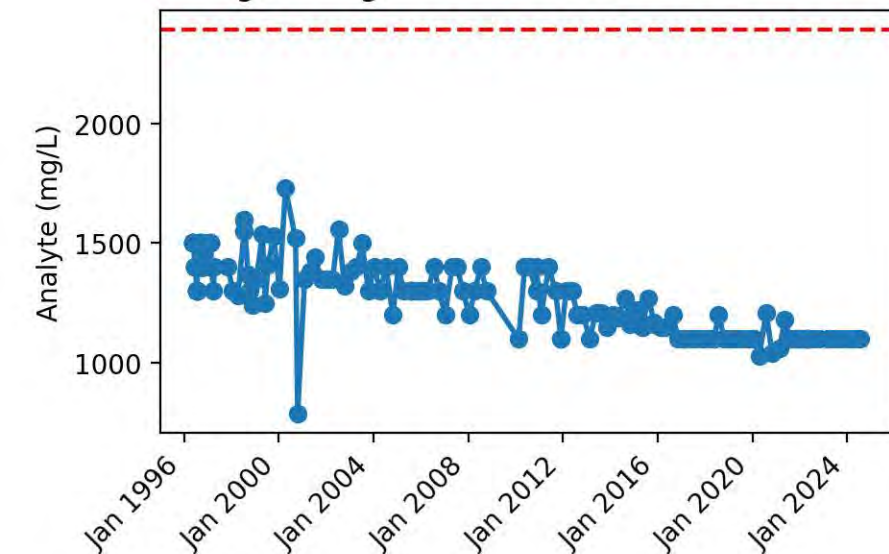


Figure 11g. Total Dissolved Solids (TDS)



Notes:
 AL = Alert Level
 AQL = Aquifer Quality Limit
 APP = Aquifer Protection Permit No. P-101704
 UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
 Displayed ALs and AQLs represent the current reporting period

M24-O Quarterly Analyte Graphs

Figure 12a. Temperature, Field

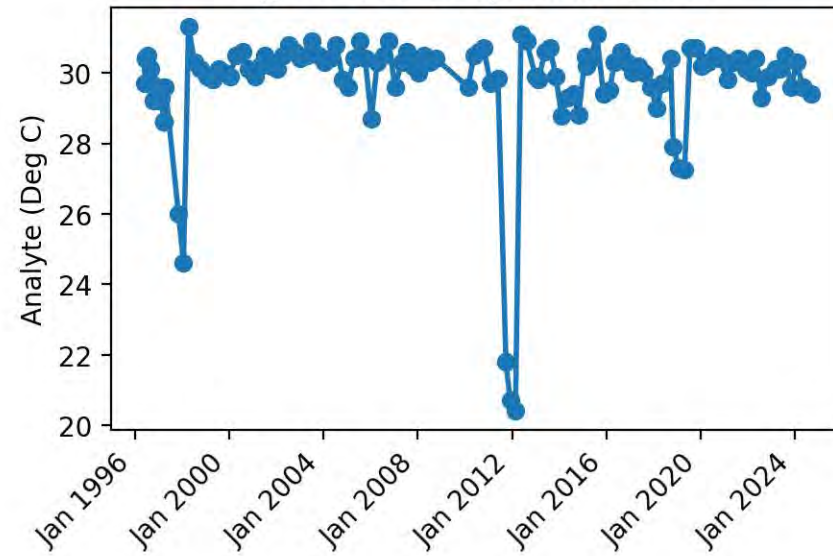


Figure 12b. pH, Field

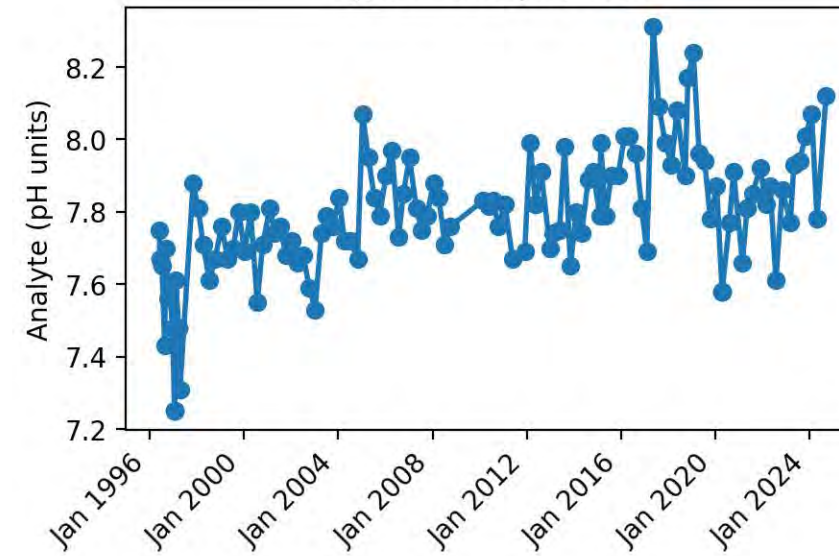


Figure 12c. Specific Conductance, Field

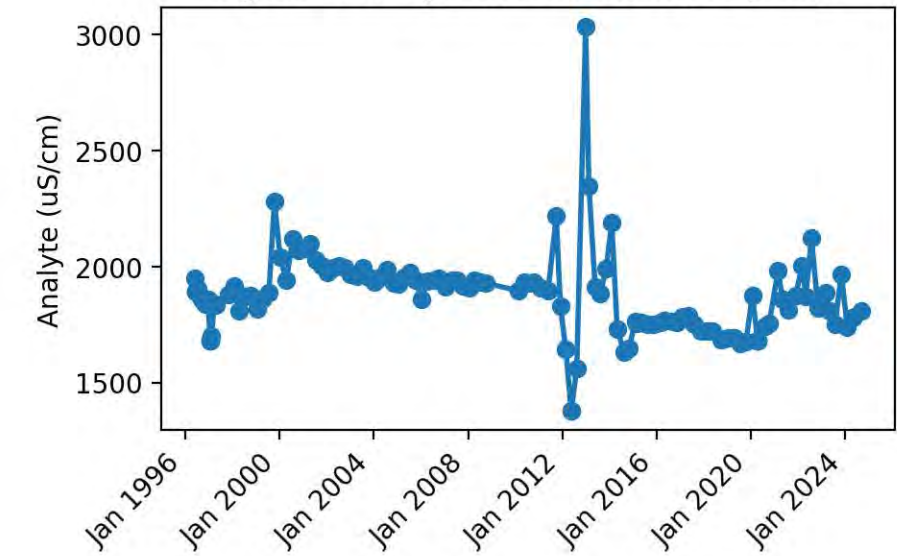


Figure 12d. Magnesium

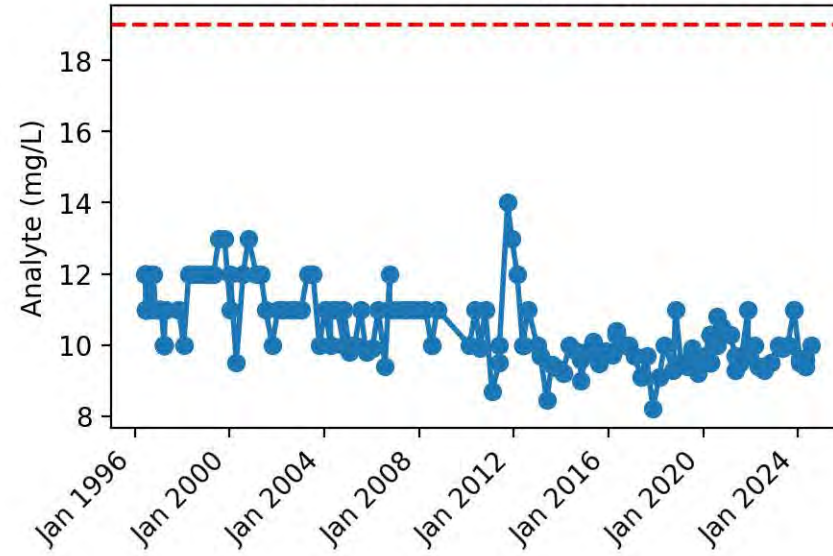


Figure 12e. Sulfate

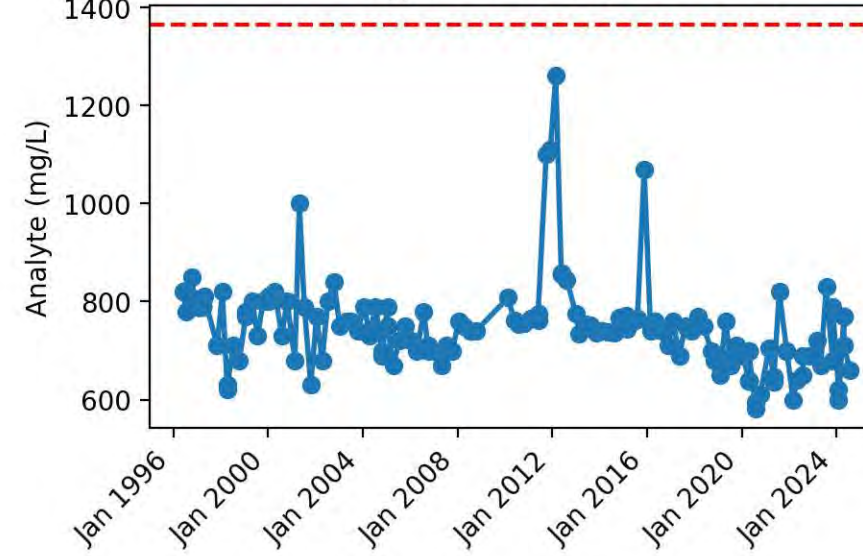


Figure 12f. Fluoride

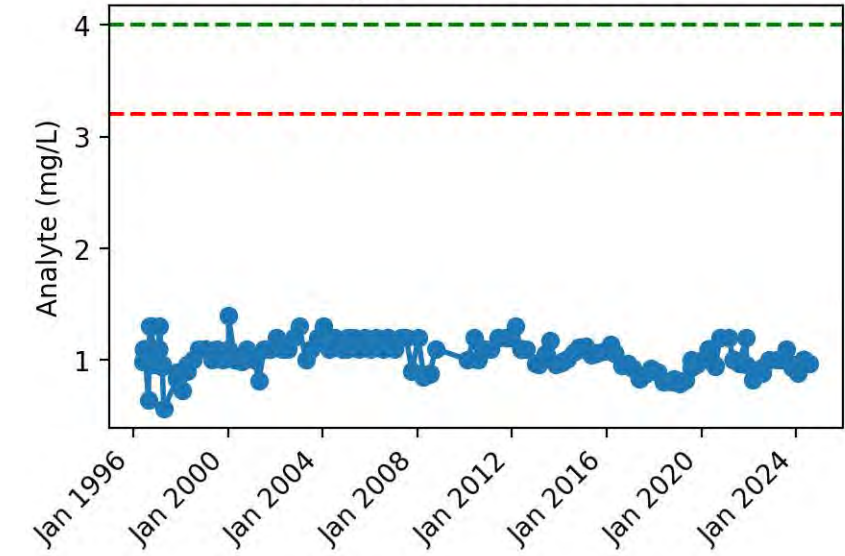
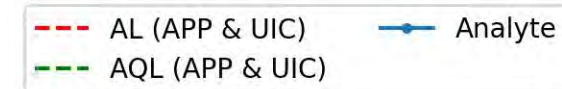
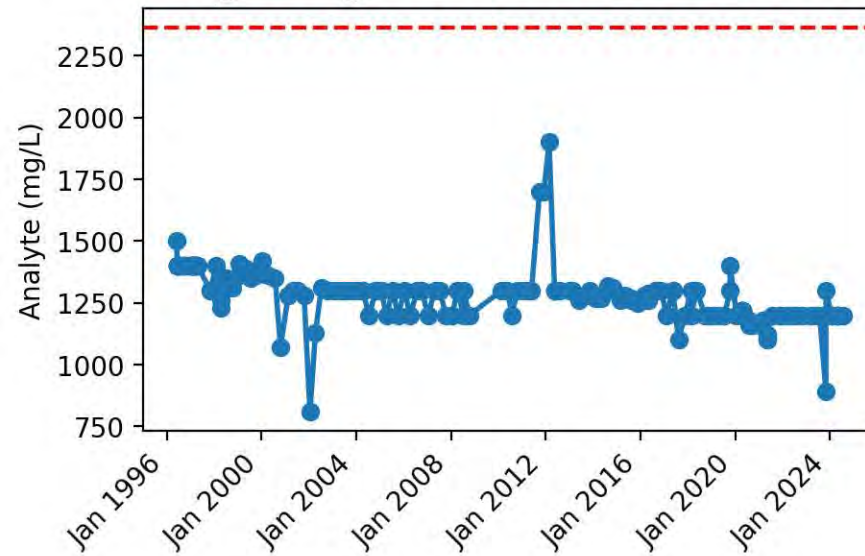


Figure 12g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M25-UBF Quarterly Analyte Graphs

Figure 13a. Temperature, Field

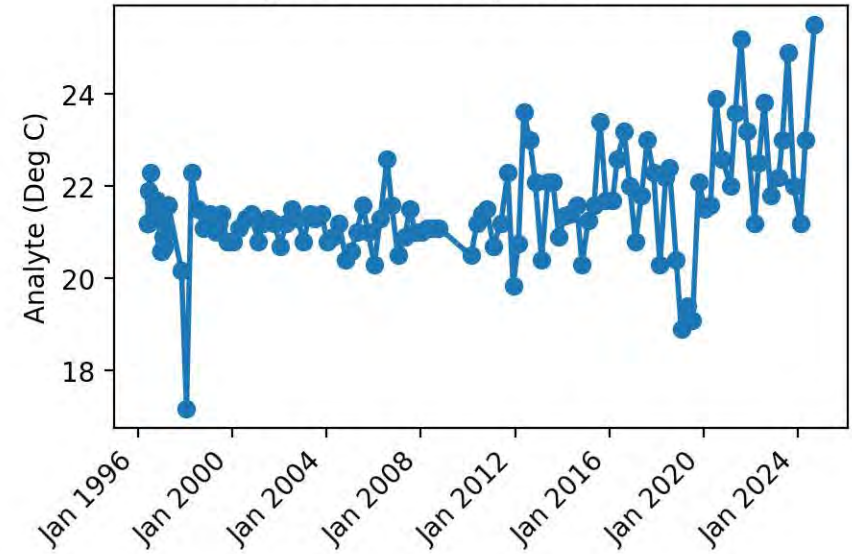


Figure 13b. pH, Field

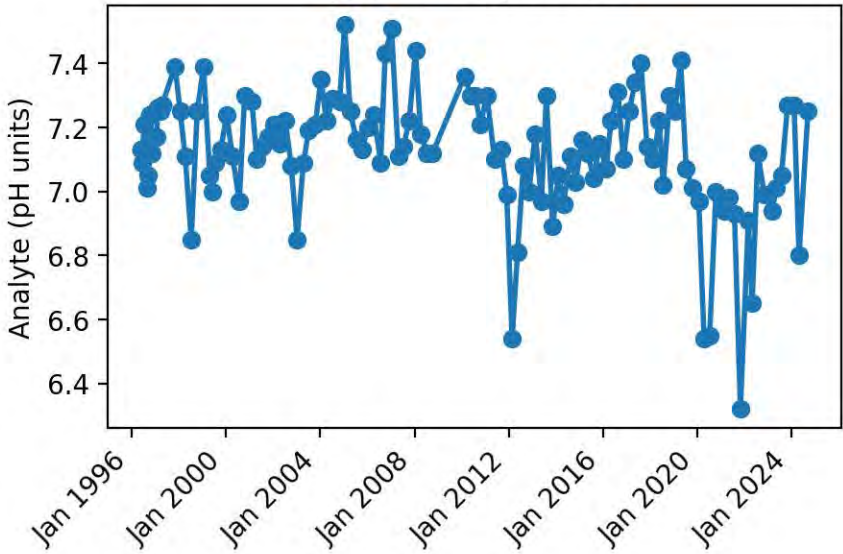


Figure 13c. Specific Conductance, Field

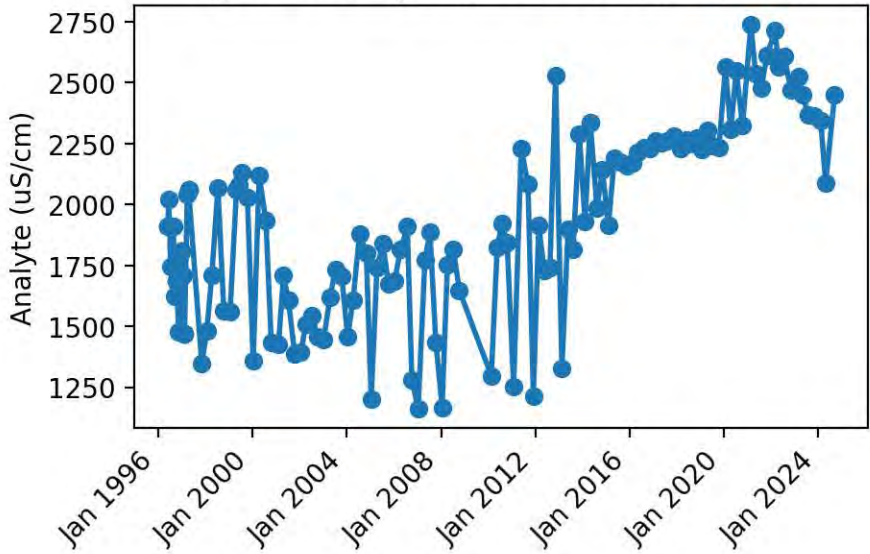


Figure 13d. Magnesium

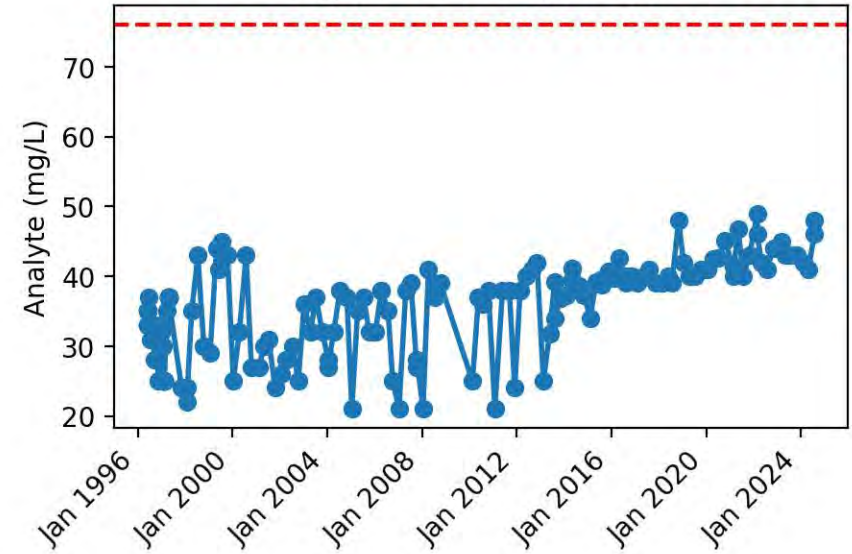


Figure 13e. Sulfate

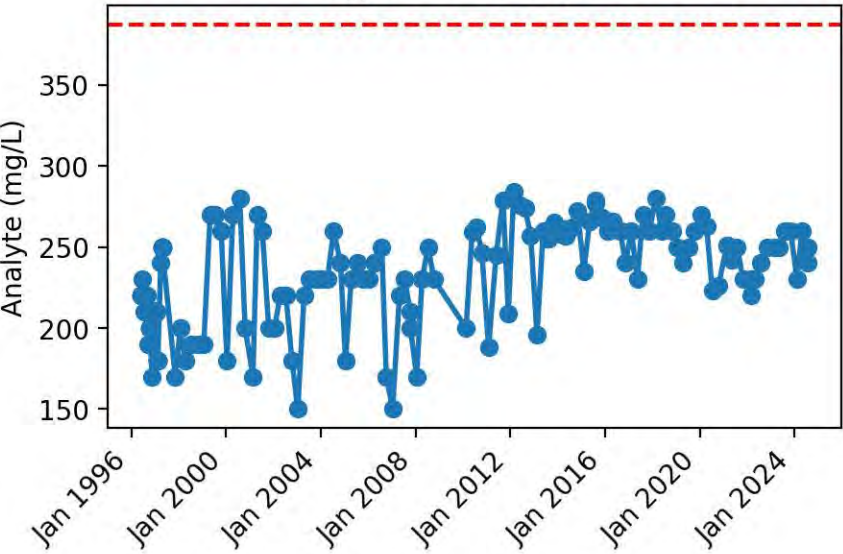


Figure 13f. Fluoride

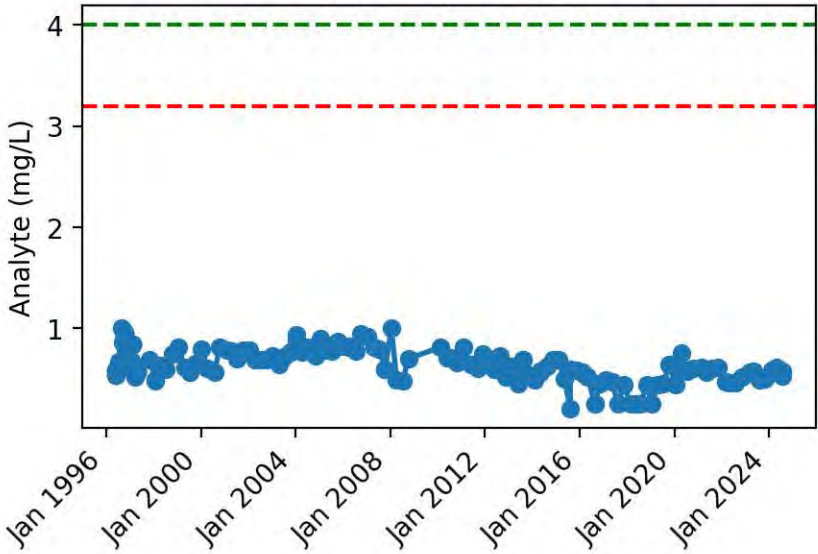
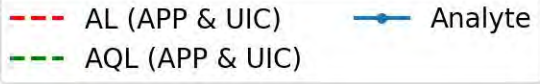
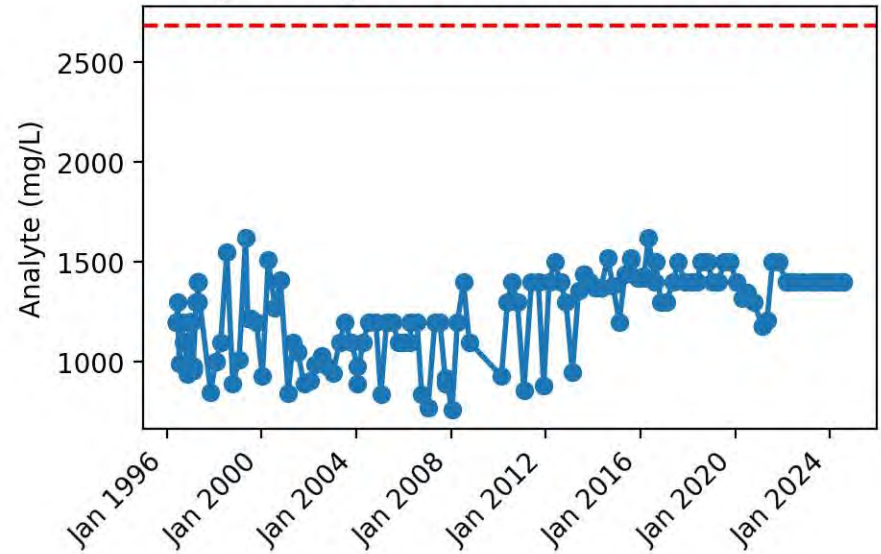


Figure 13g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M26-O Quarterly Analyte Graphs

Figure 14a. Temperature, Field

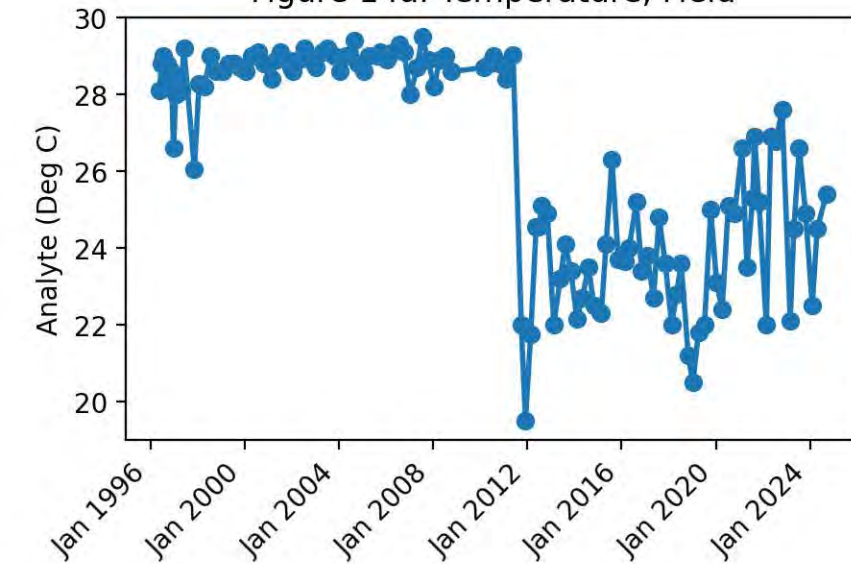


Figure 14b. pH, Field

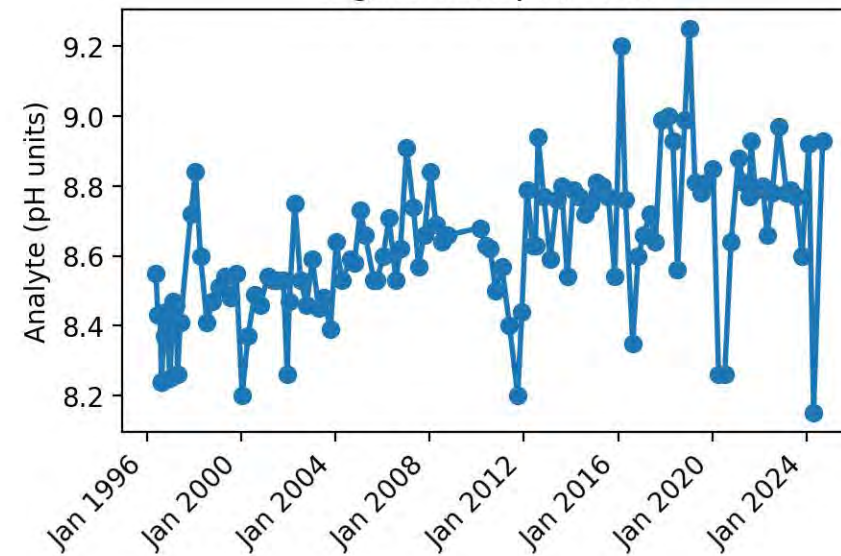


Figure 14c. Specific Conductance, Field

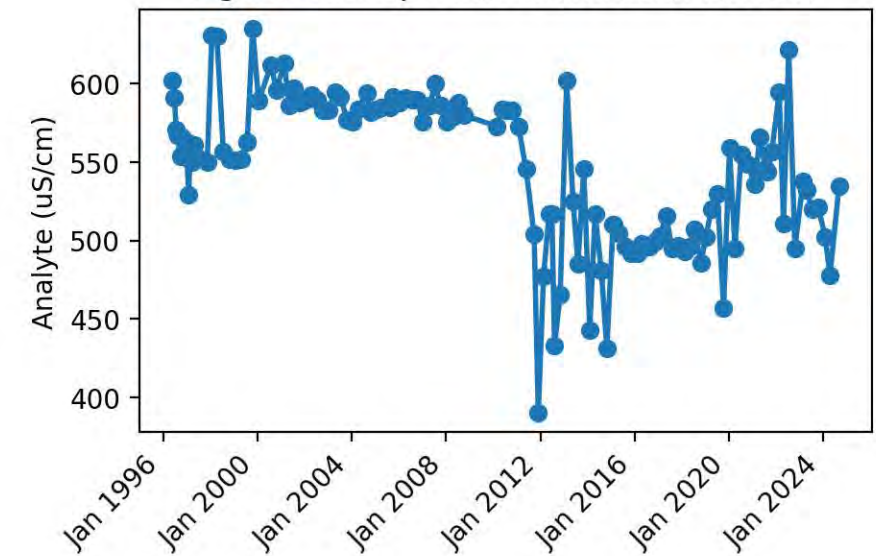


Figure 14d. Magnesium

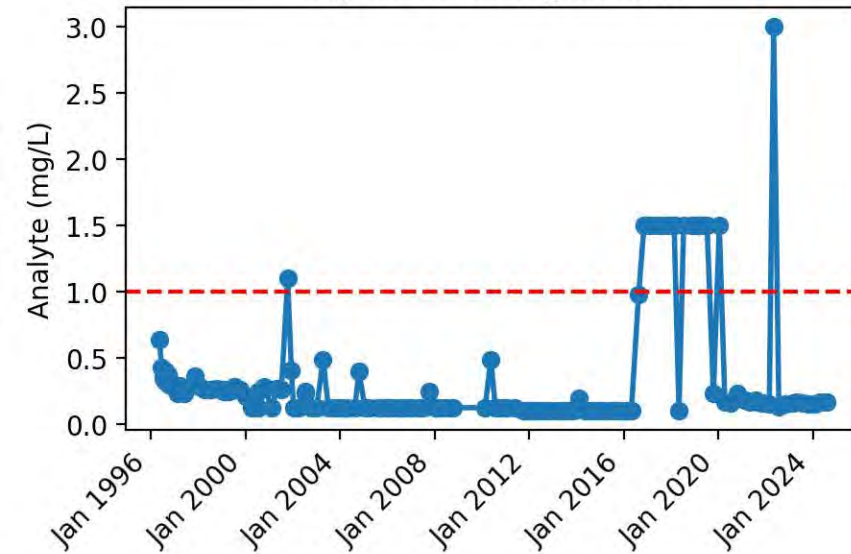


Figure 14e. Sulfate

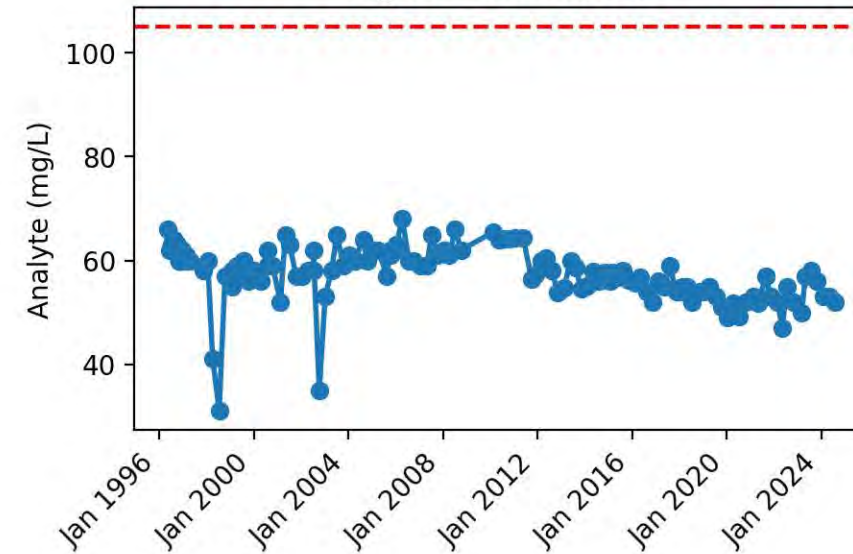


Figure 14f. Fluoride

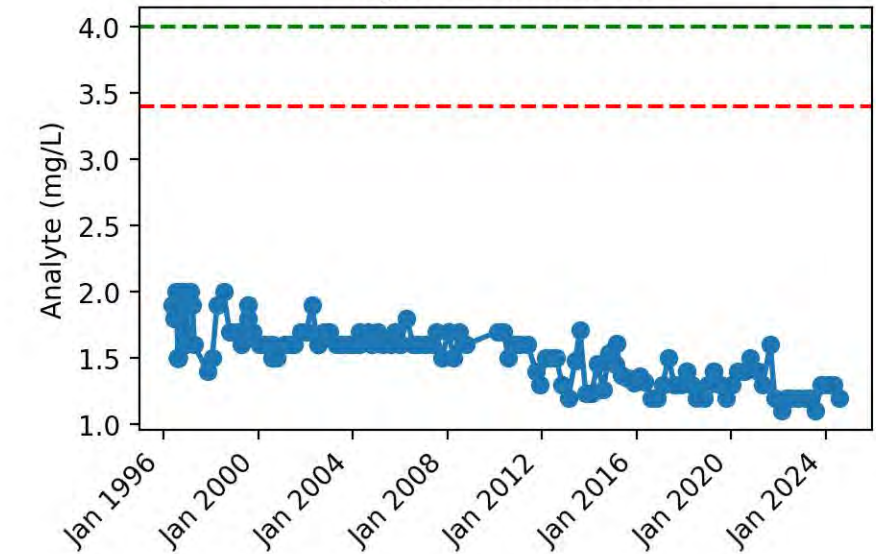
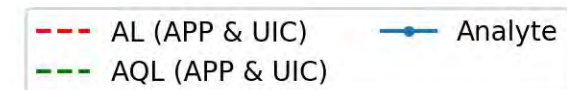
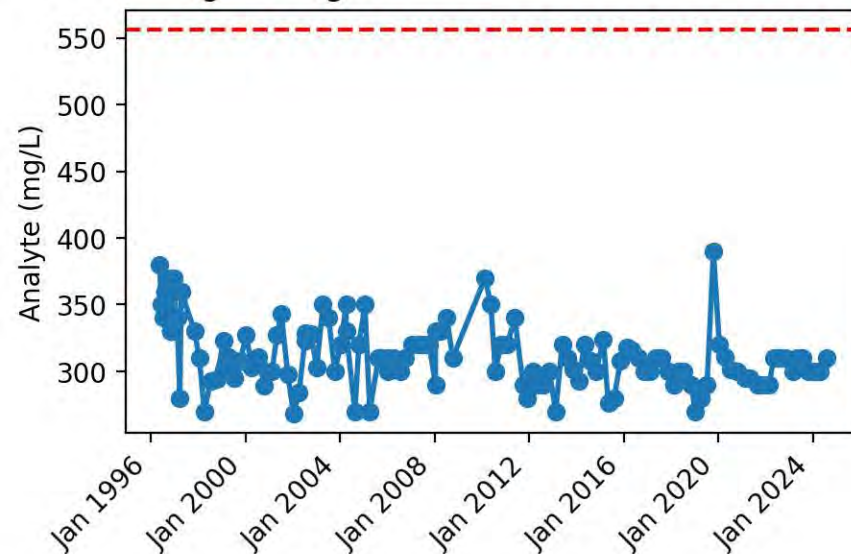


Figure 14g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M27-LBF Quarterly Analyte Graphs

Figure 15a. Temperature, Field

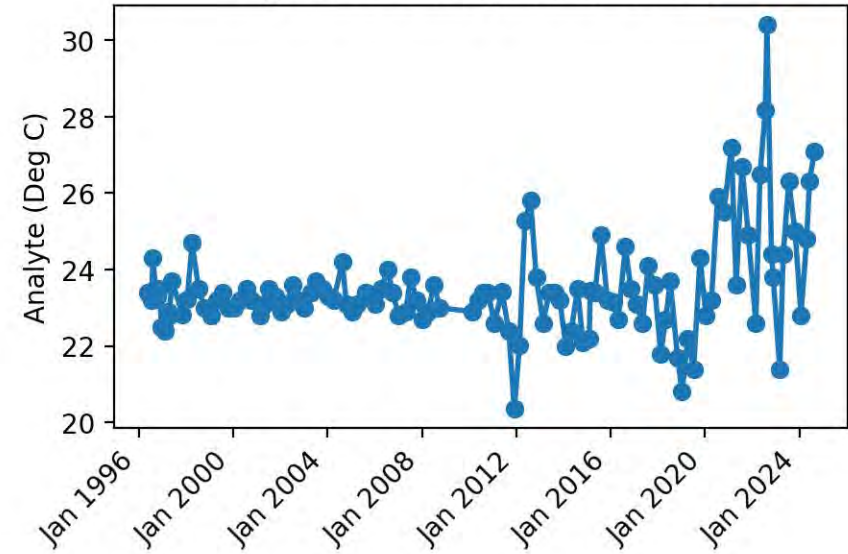


Figure 15b. pH, Field

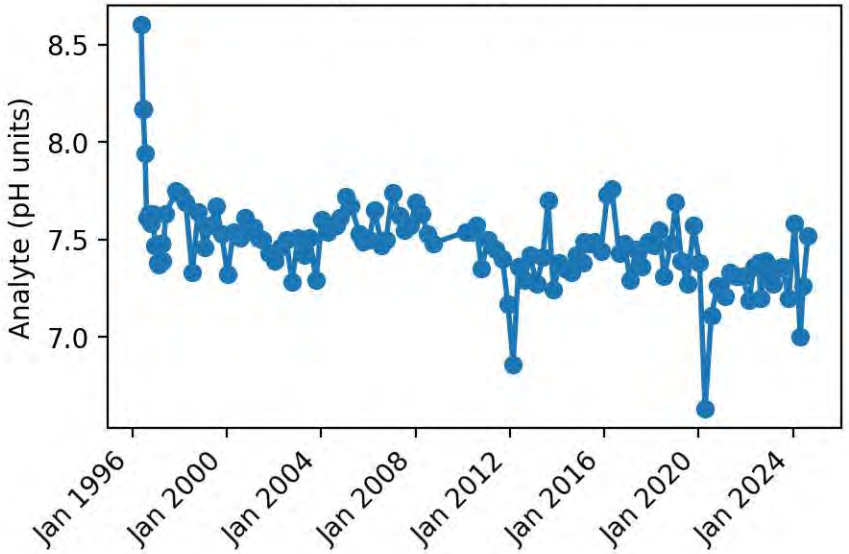


Figure 15c. Specific Conductance, Field

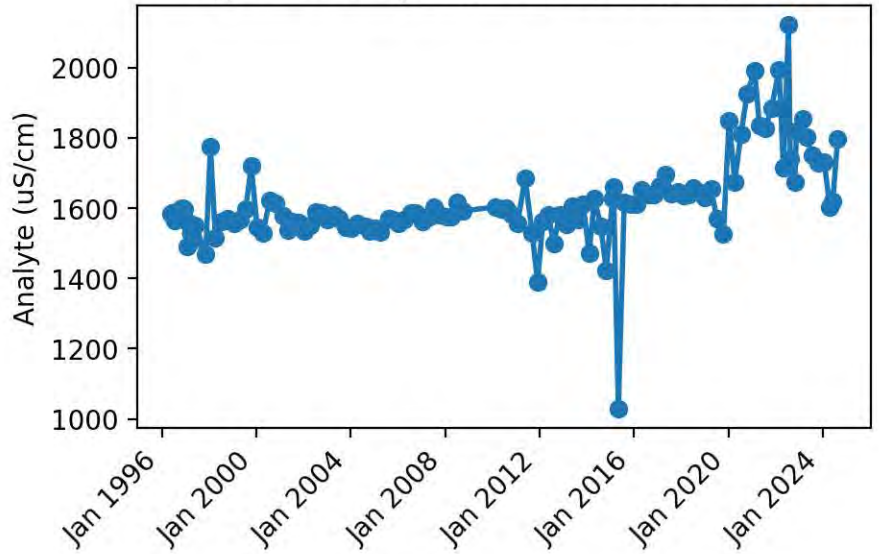


Figure 15d. Magnesium

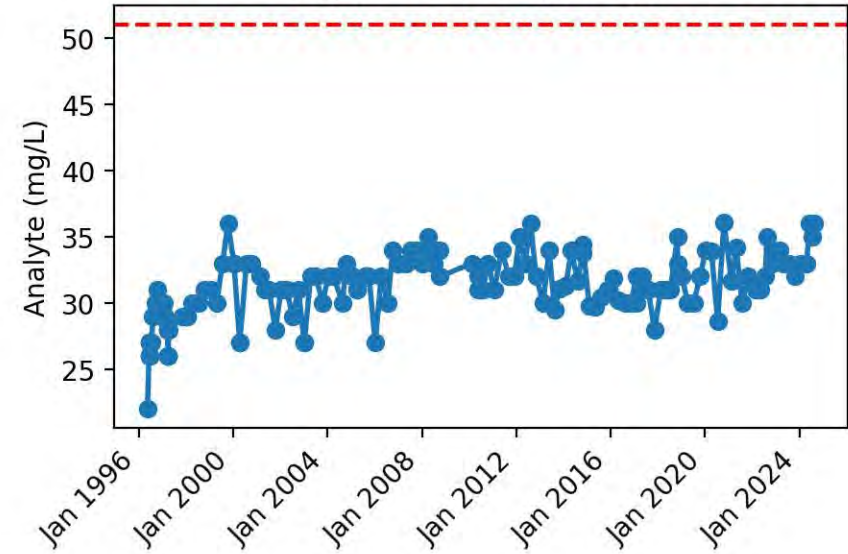


Figure 15e. Sulfate

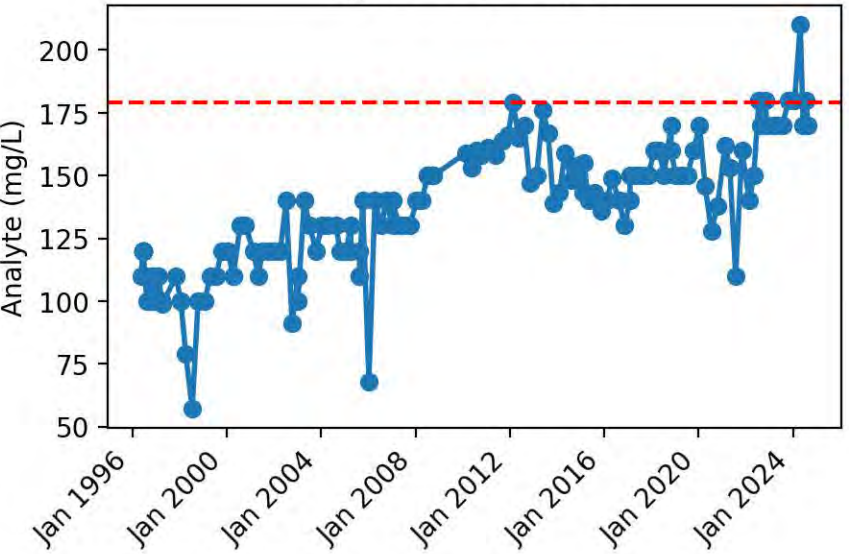


Figure 15f. Fluoride

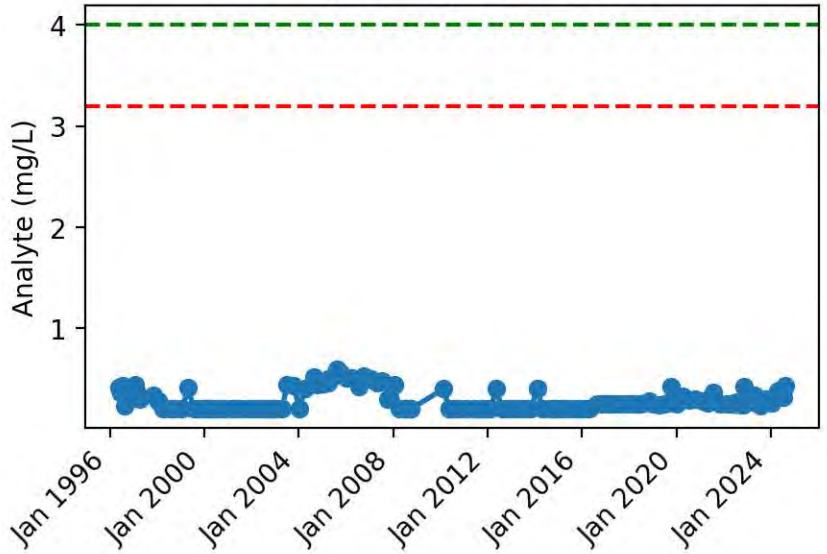
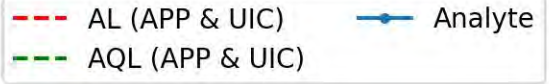
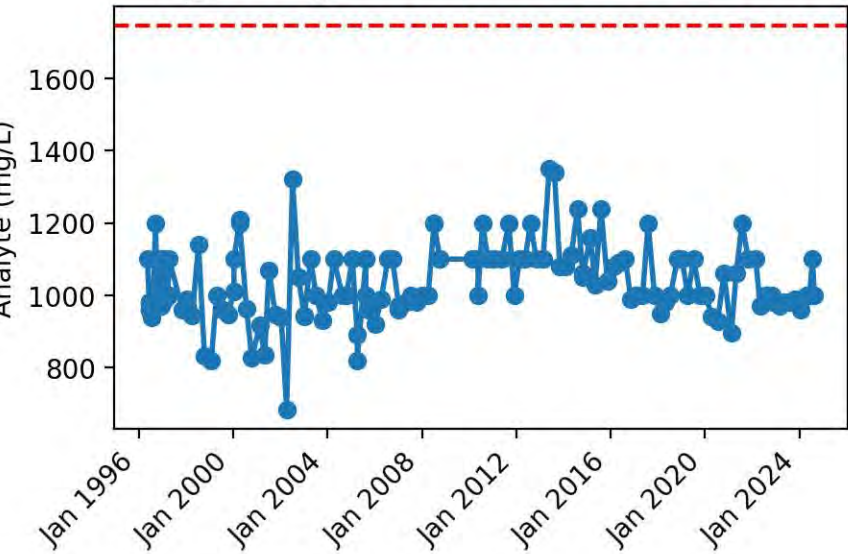


Figure 15g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M28-LBF Quarterly Analyte Graphs

Figure 16a. Temperature, Field

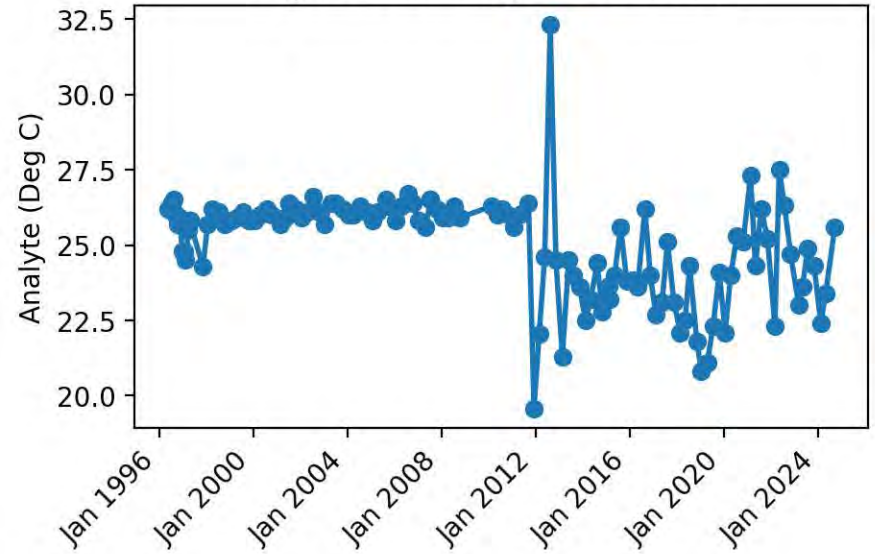


Figure 16b. pH, Field

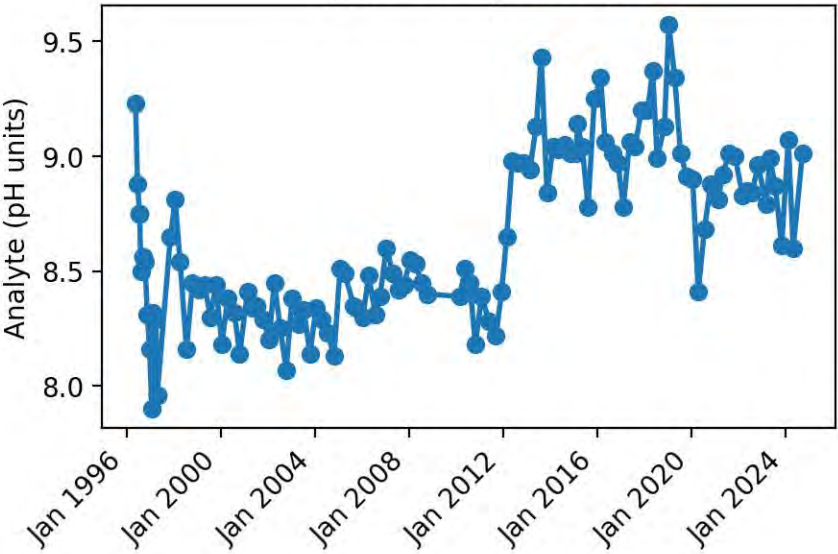


Figure 16c. Specific Conductance, Field

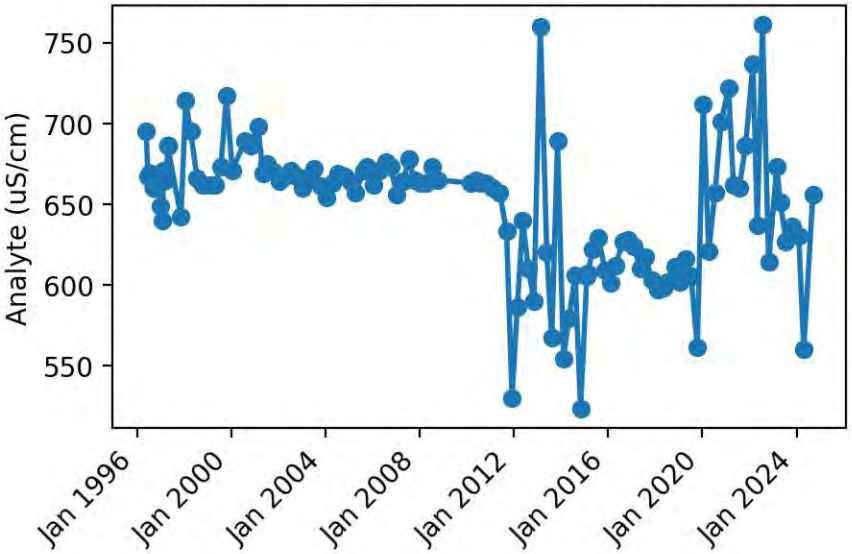


Figure 16d. Magnesium

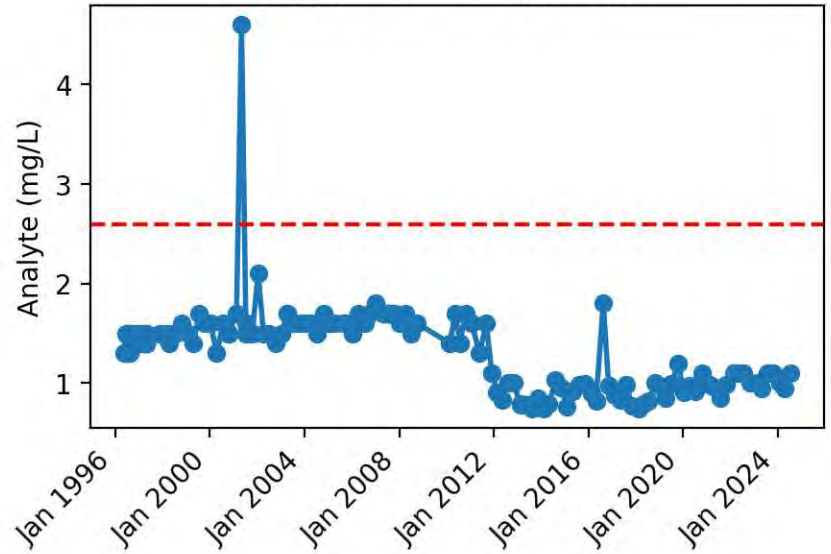


Figure 16e. Sulfate

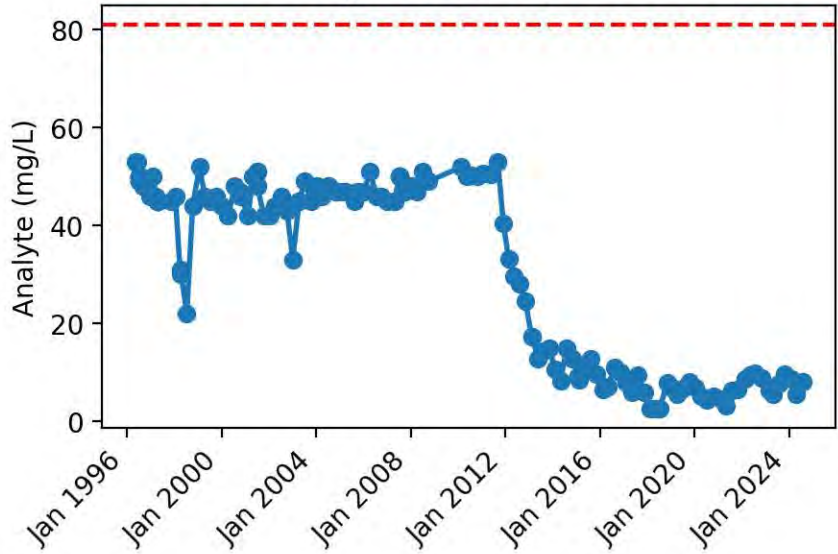


Figure 16f. Fluoride

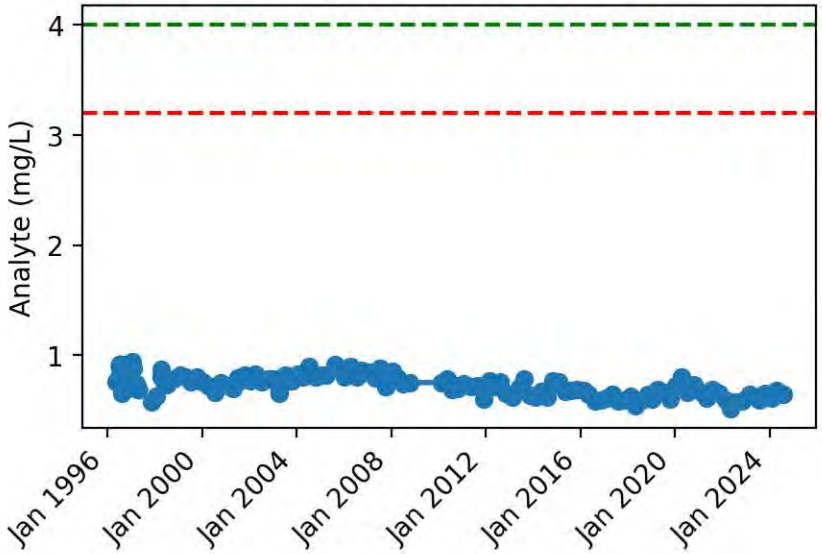
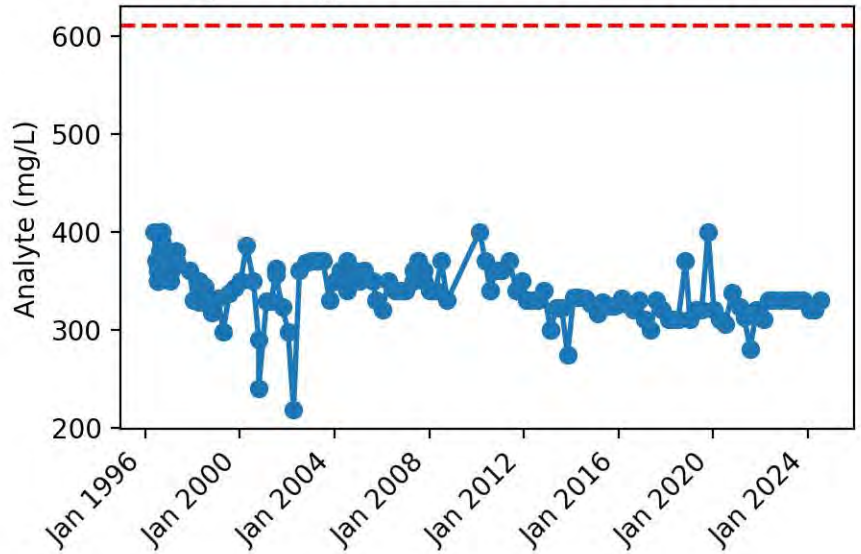


Figure 16g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M29-UBF Quarterly Analyte Graphs

Figure 17a. Temperature, Field

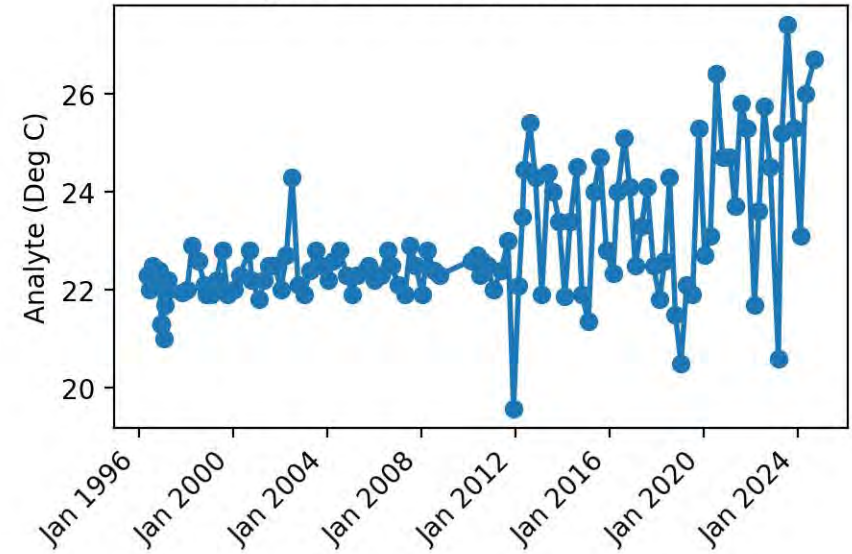


Figure 17b. pH, Field

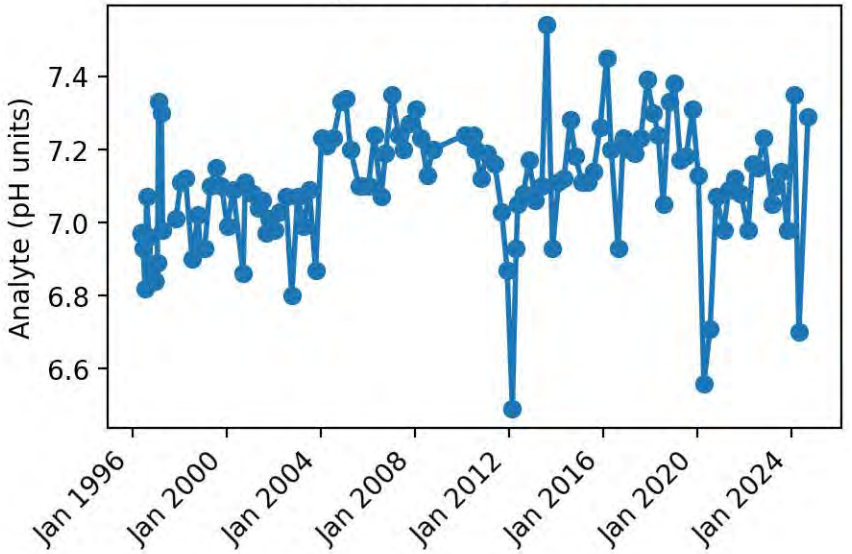


Figure 17c. Specific Conductance, Field

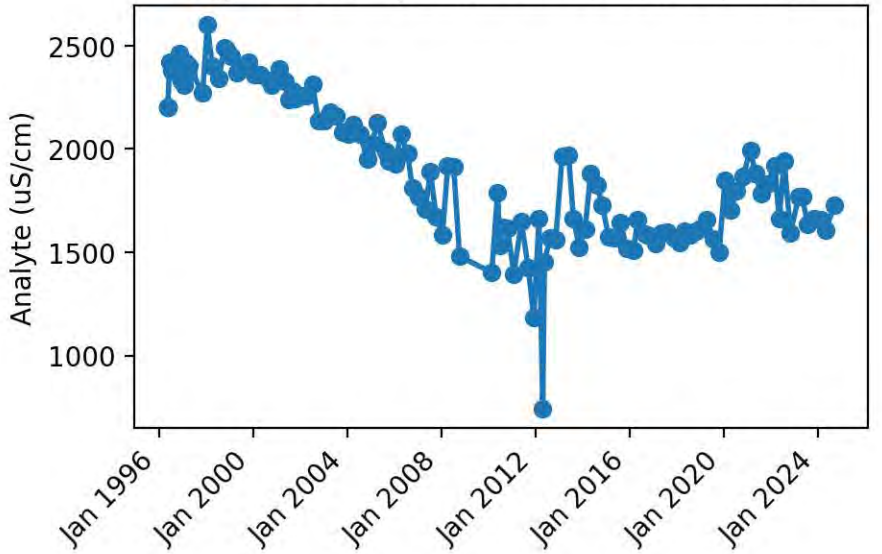


Figure 17d. Magnesium

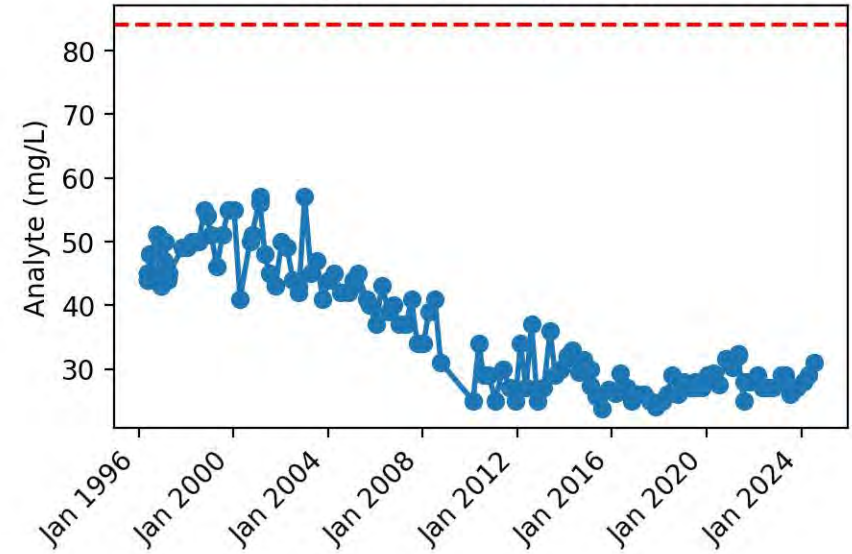


Figure 17e. Sulfate

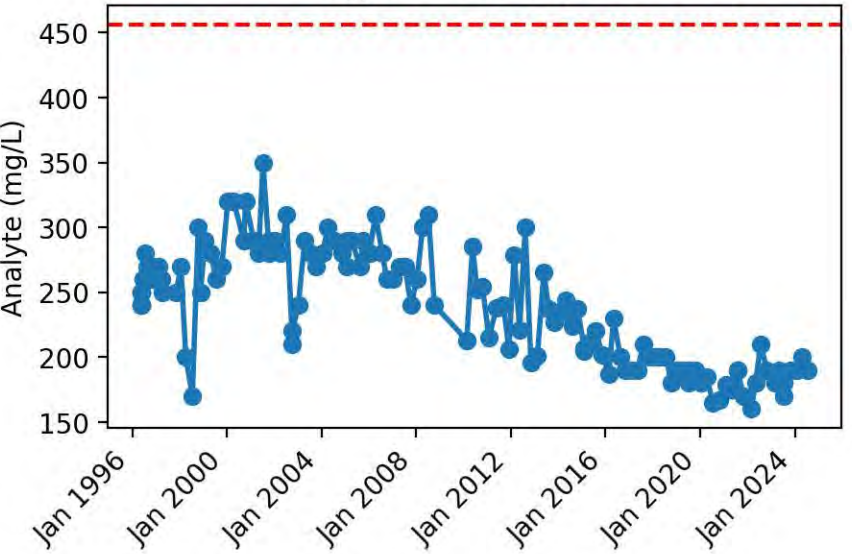


Figure 17f. Fluoride

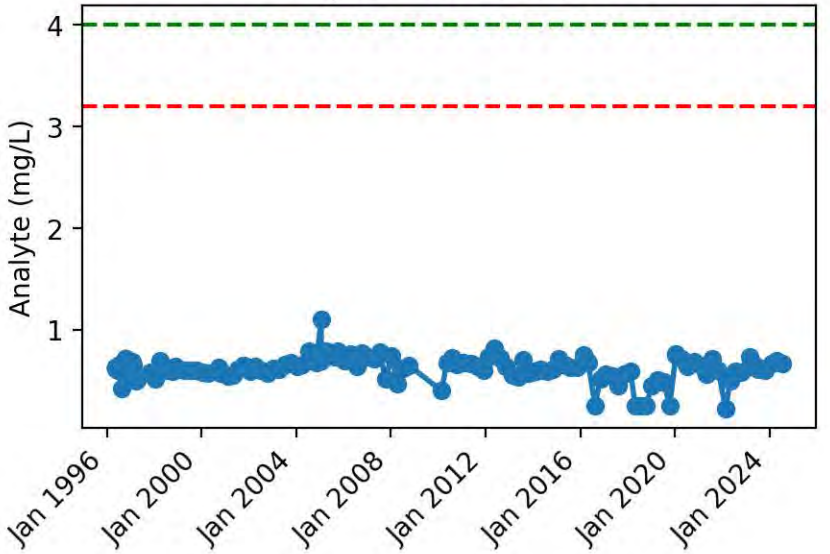
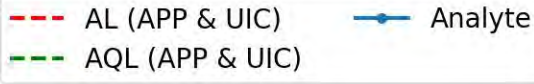
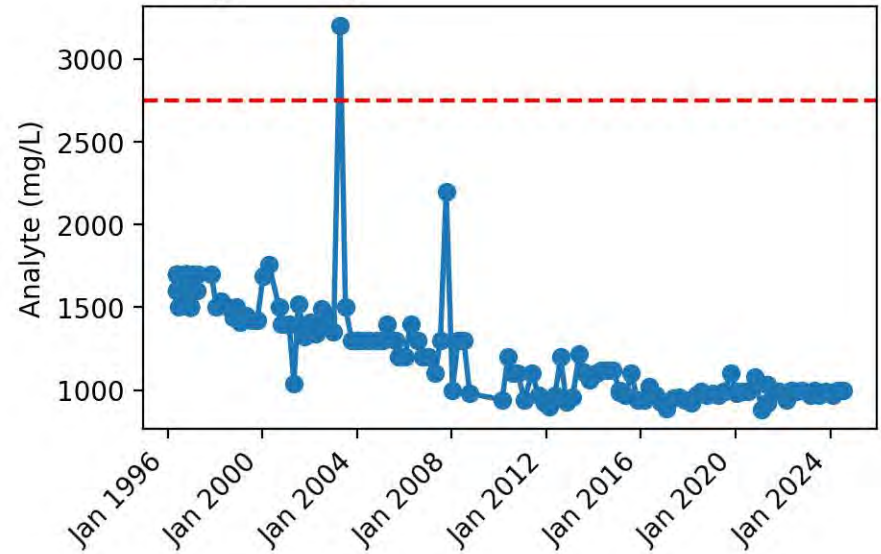


Figure 17g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M2-GU Quarterly Analyte Graphs

Figure 18a. Temperature, Field

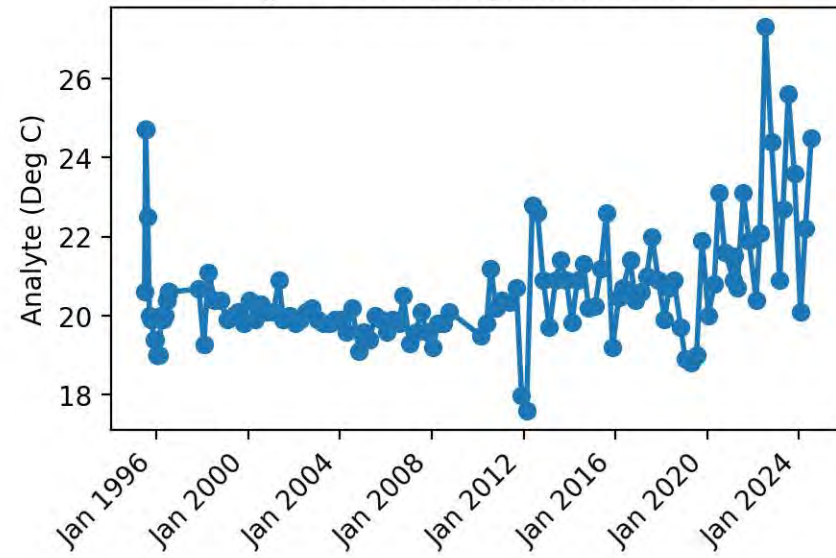


Figure 18b. pH, Field

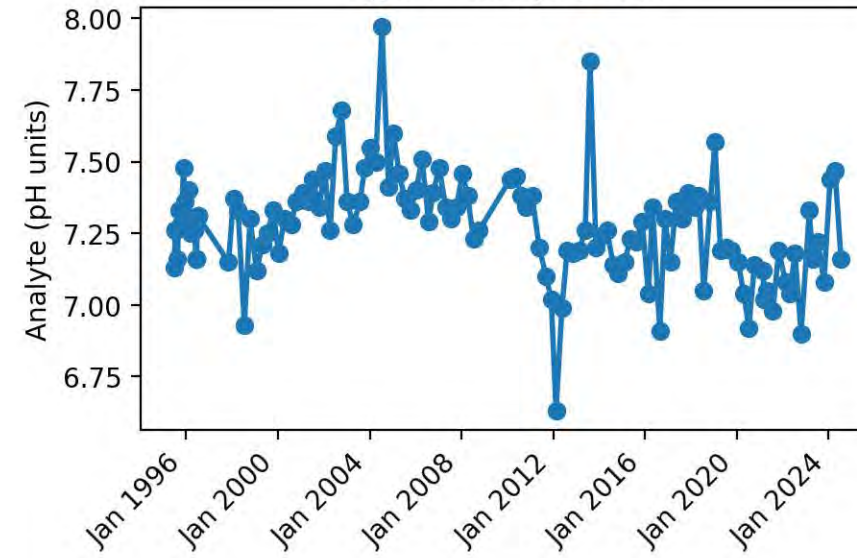


Figure 18c. Specific Conductance, Field

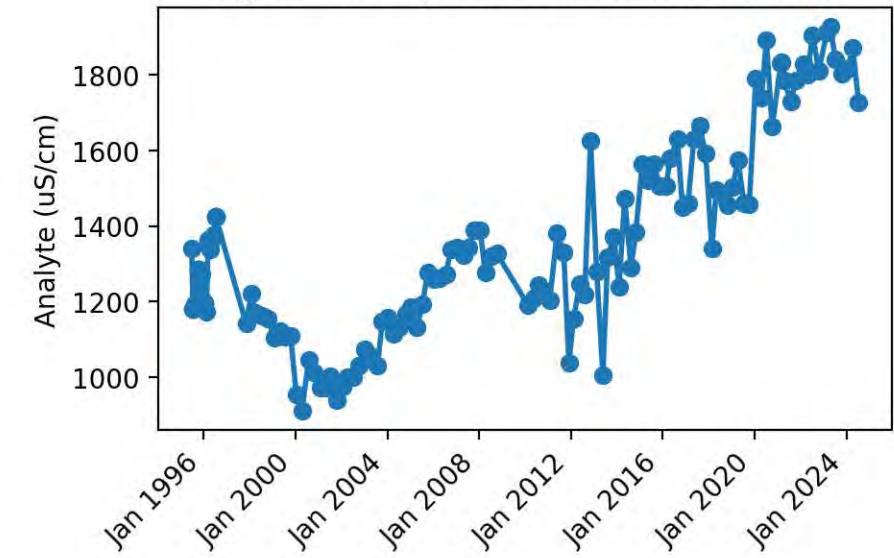


Figure 18d. Magnesium

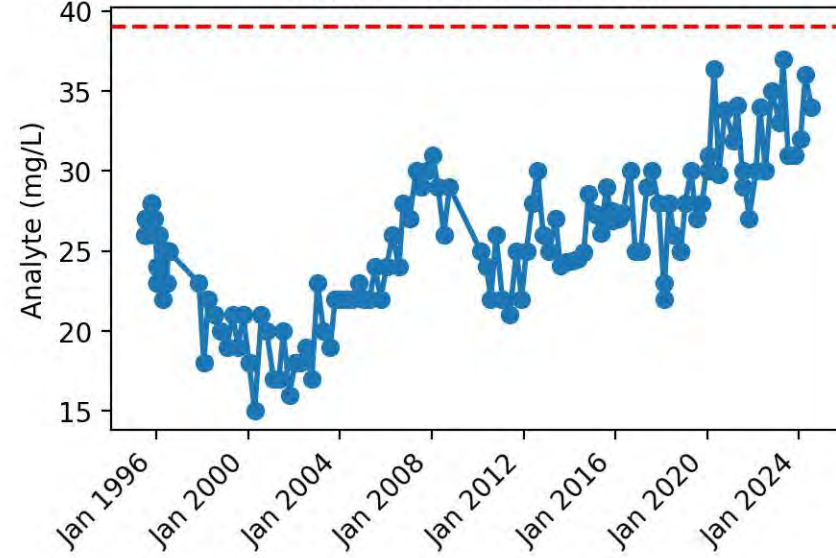


Figure 18e. Sulfate

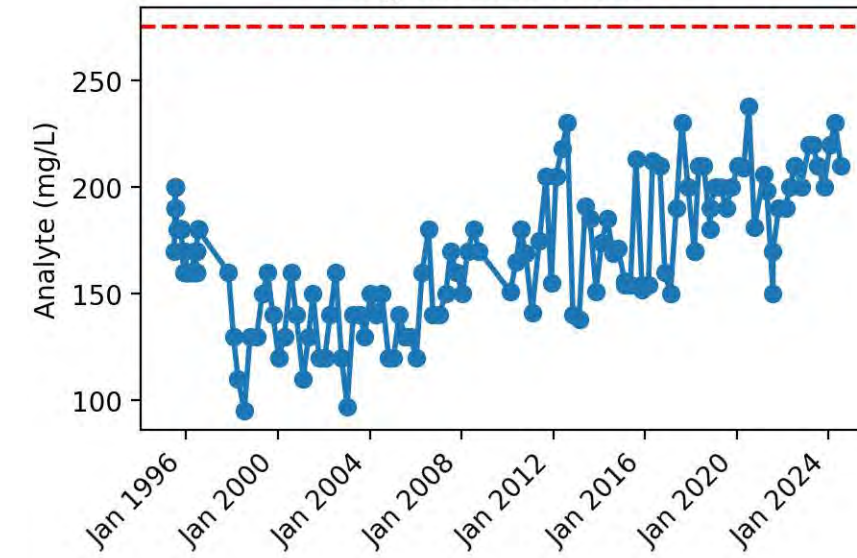


Figure 18f. Fluoride

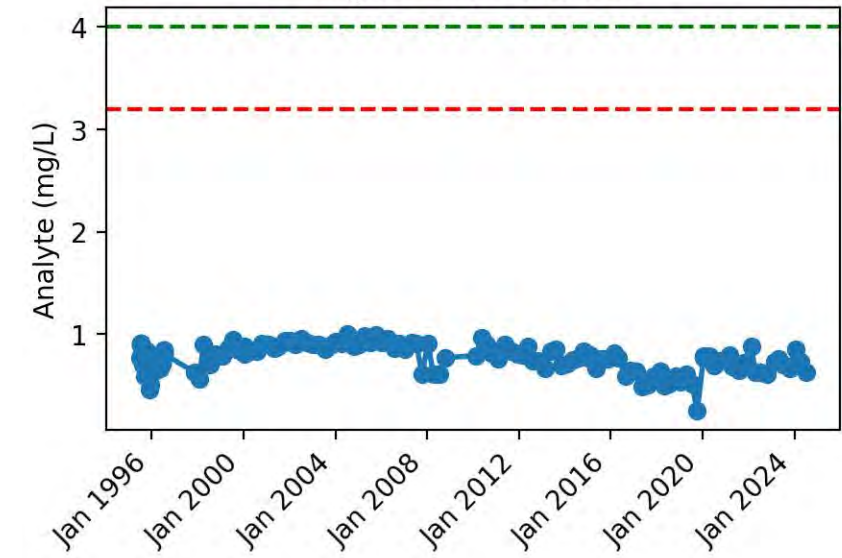
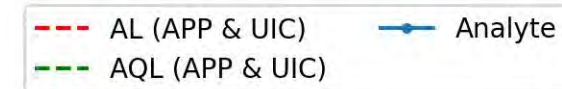
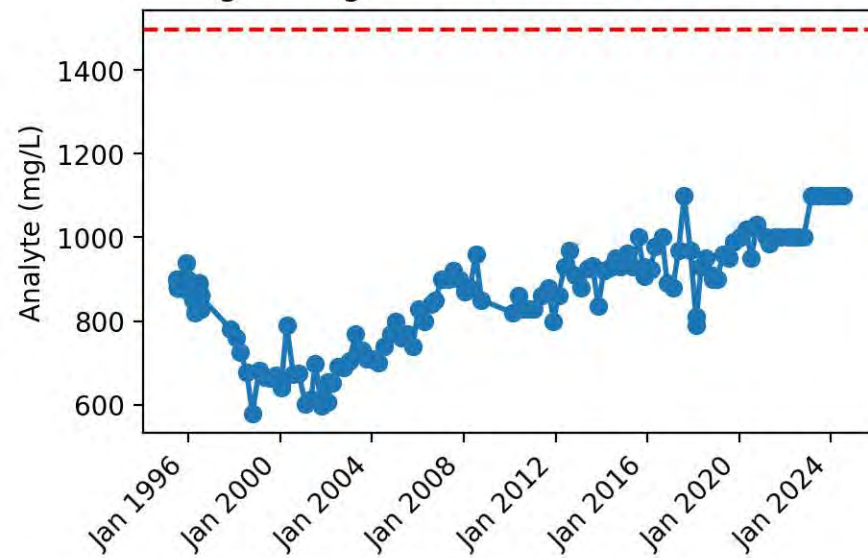


Figure 18g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M30-O Quarterly Analyte Graphs

Figure 19a. Temperature, Field

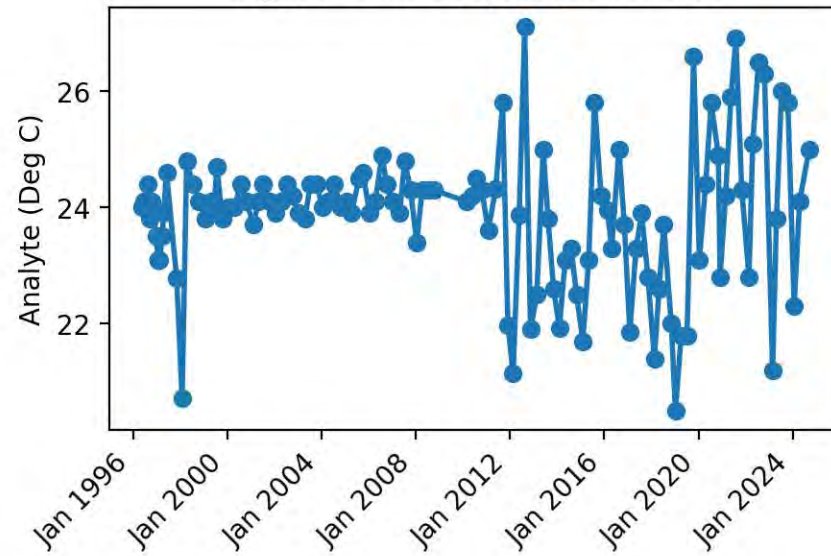


Figure 19b. pH, Field

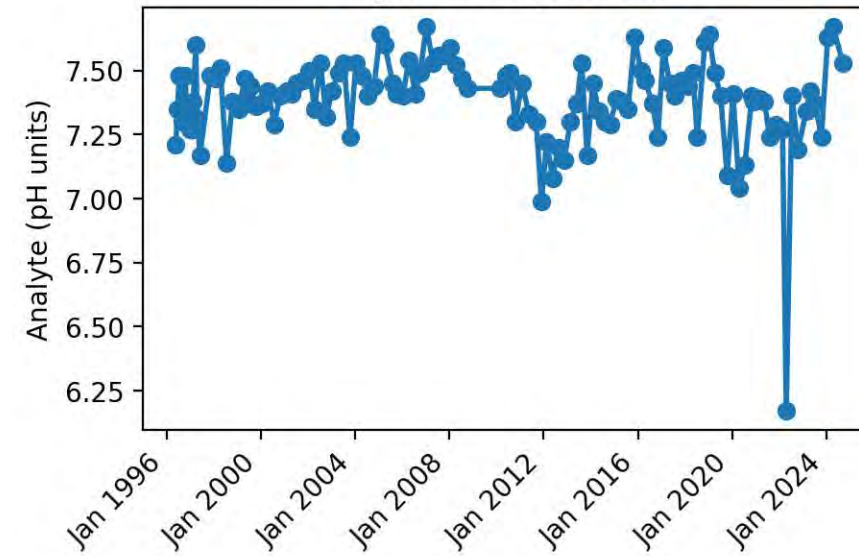


Figure 19c. Specific Conductance, Field

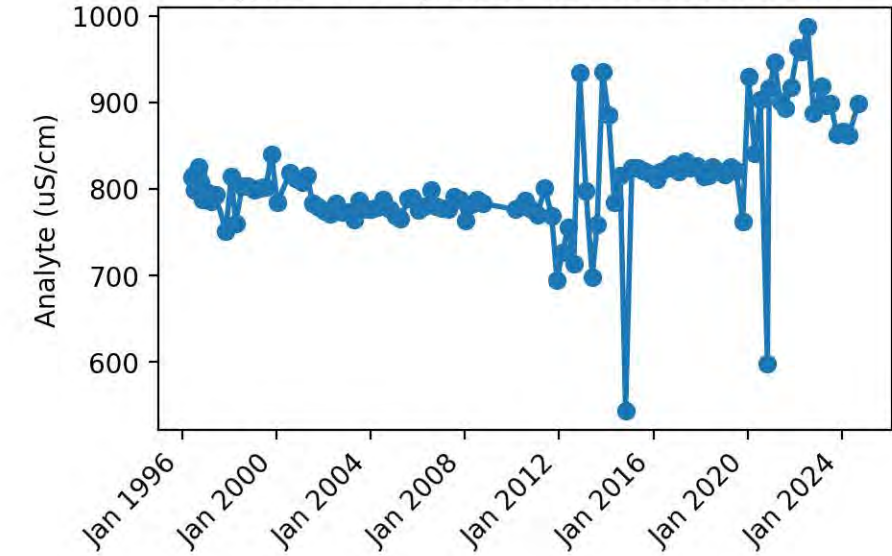


Figure 19d. Magnesium

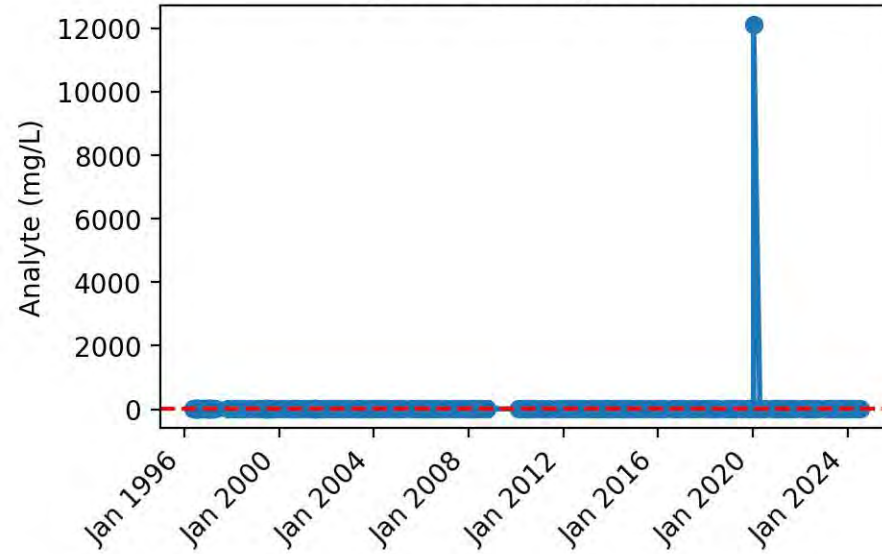


Figure 19e. Sulfate

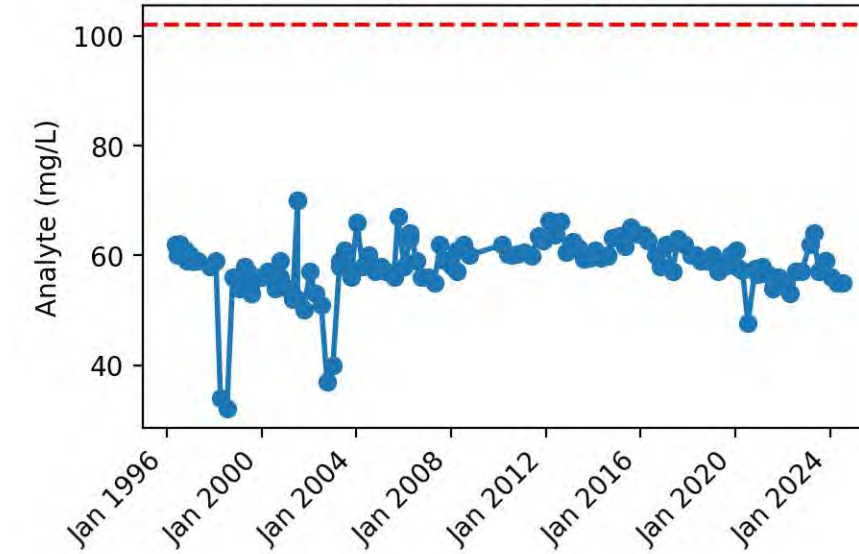


Figure 19f. Fluoride

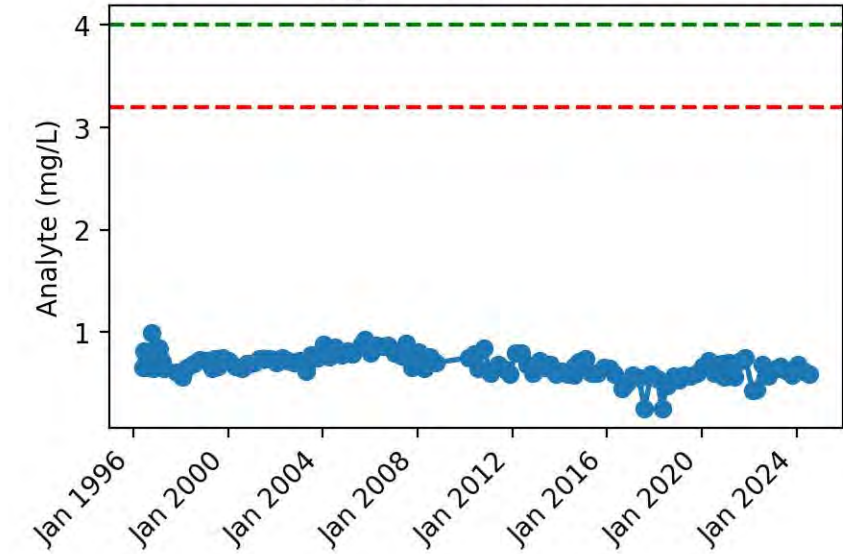
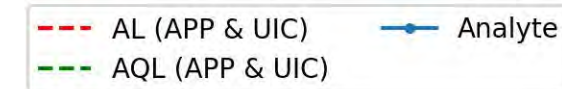
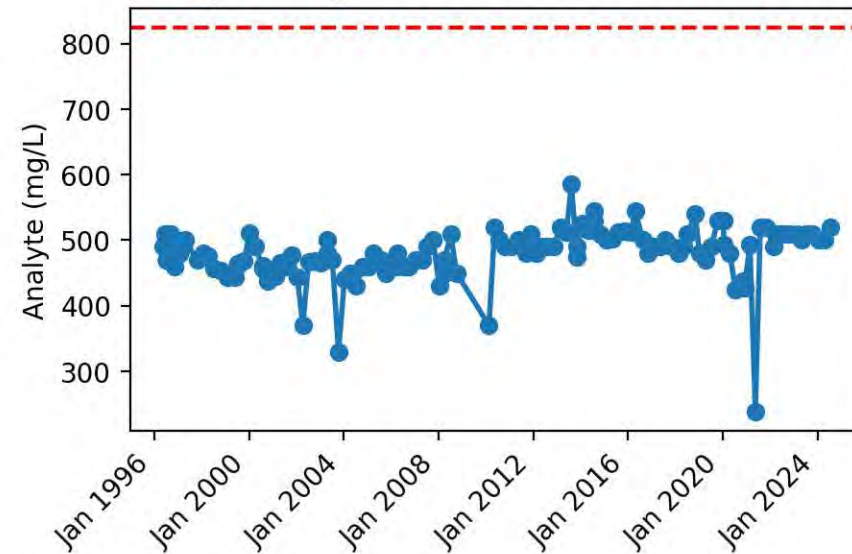


Figure 19g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M31-LBF Quarterly Analyte Graphs

Figure 20a. Temperature, Field

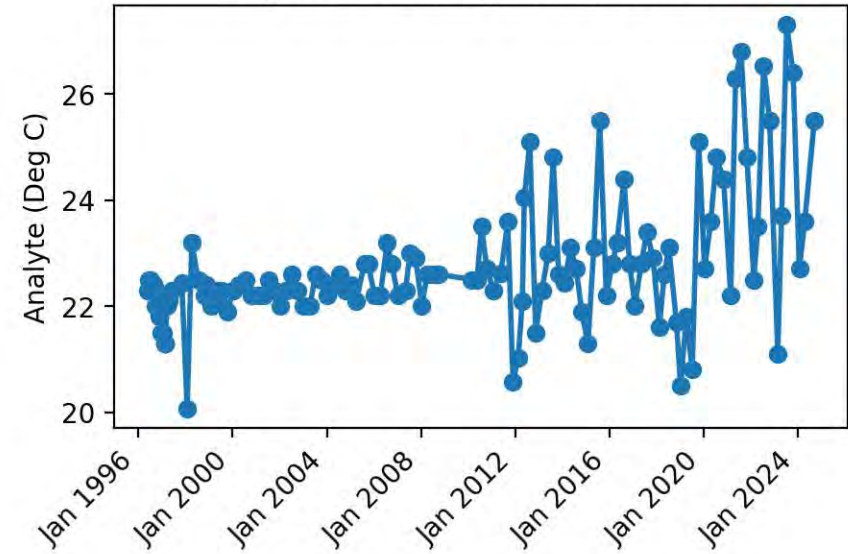


Figure 20b. pH, Field

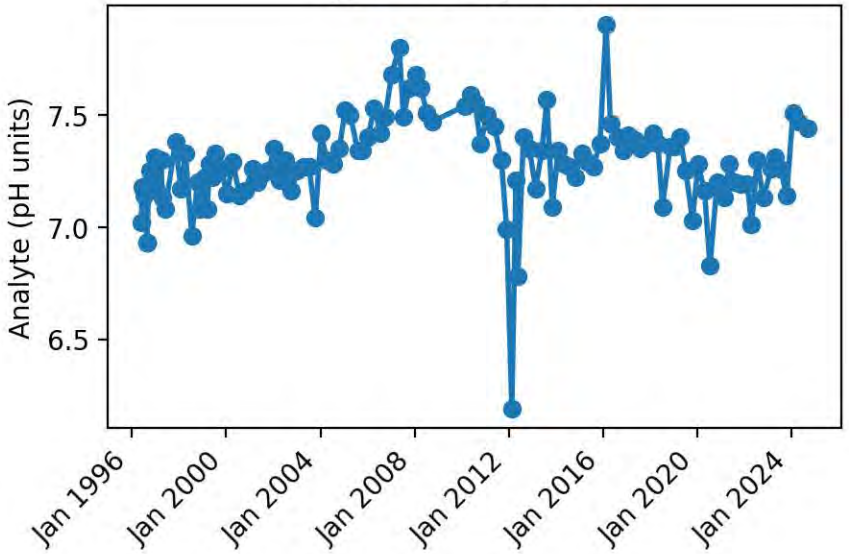


Figure 20c. Specific Conductance, Field

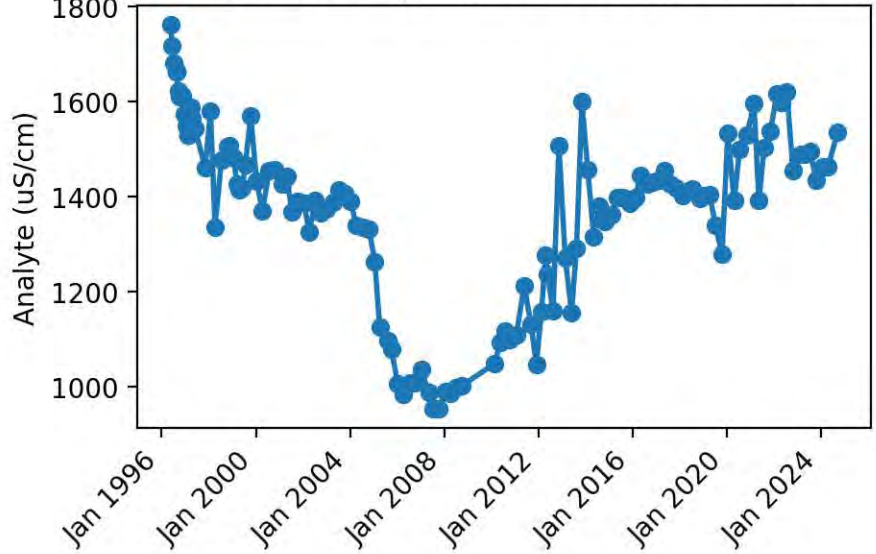


Figure 20d. Magnesium

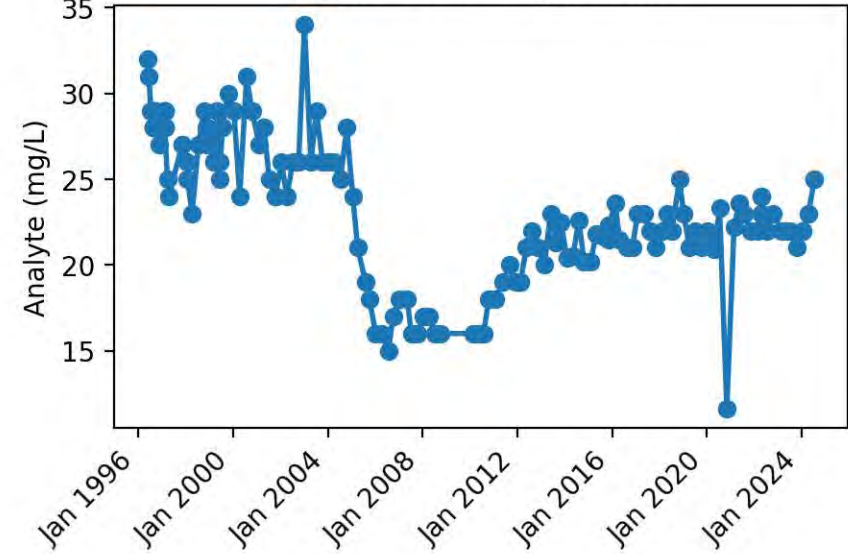


Figure 20e. Sulfate

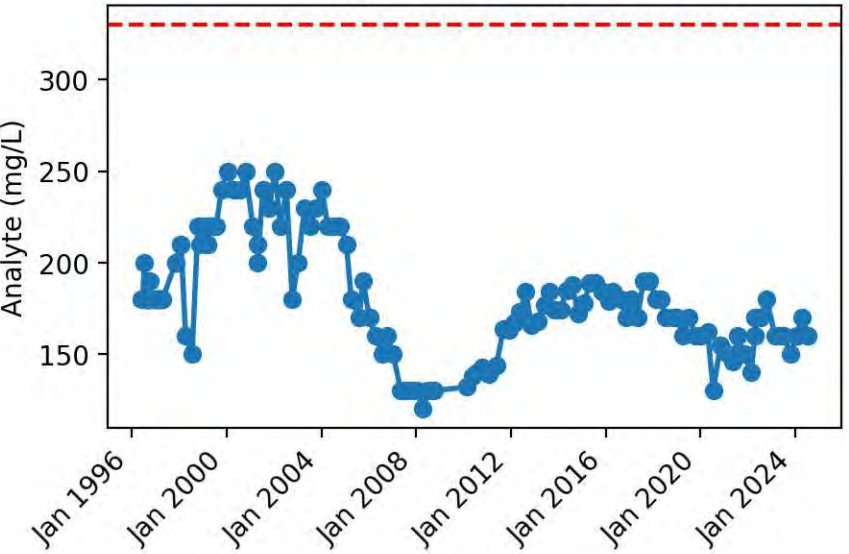


Figure 20f. Fluoride

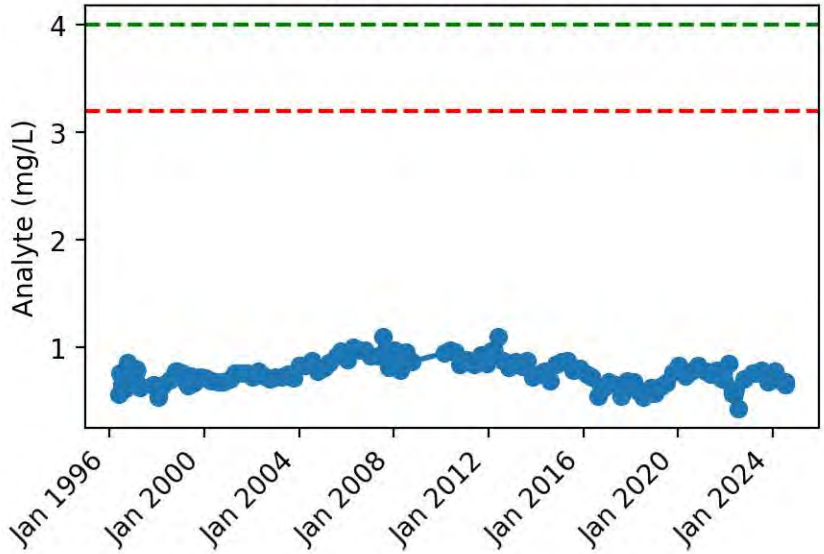
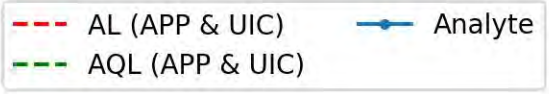
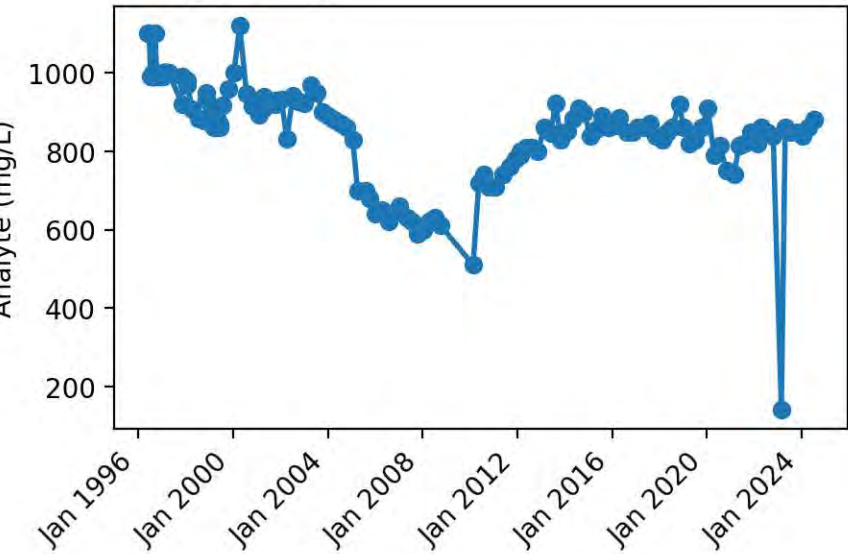


Figure 20g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M4-O Quarterly Analyte Graphs

Figure 22a. Temperature, Field

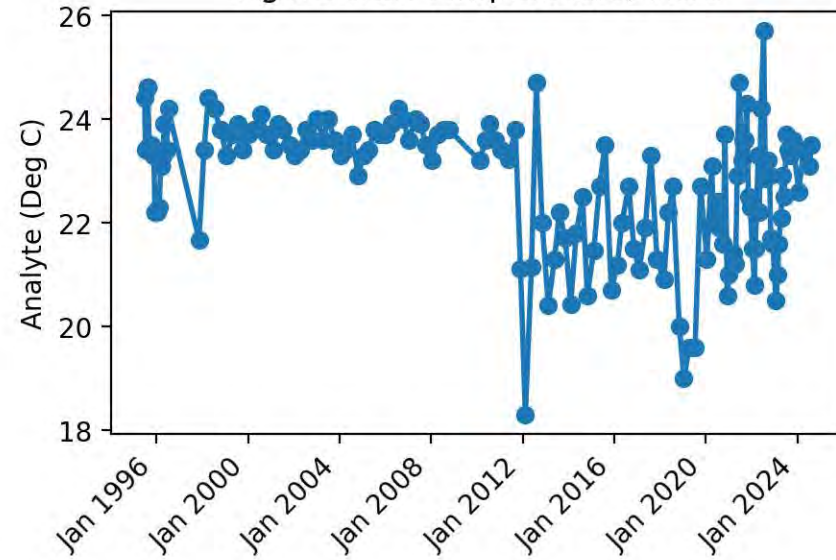


Figure 22b. pH, Field

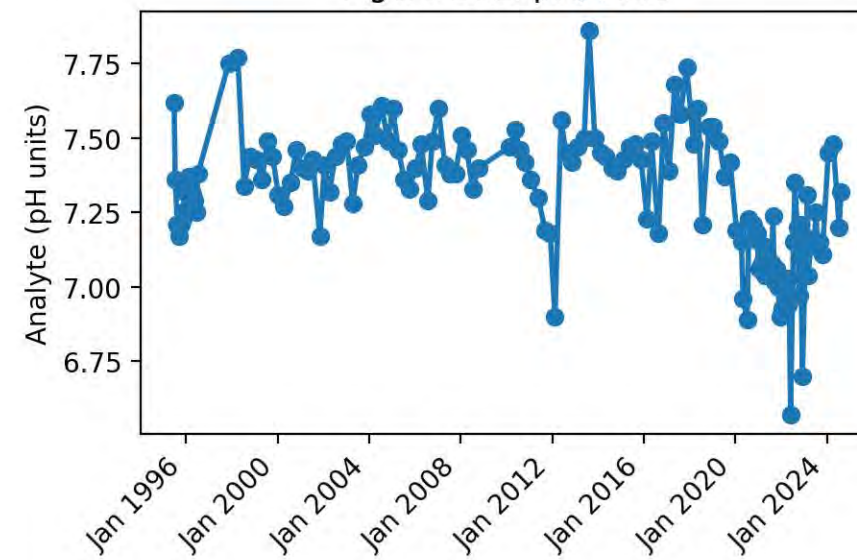


Figure 22c. Specific Conductance, Field

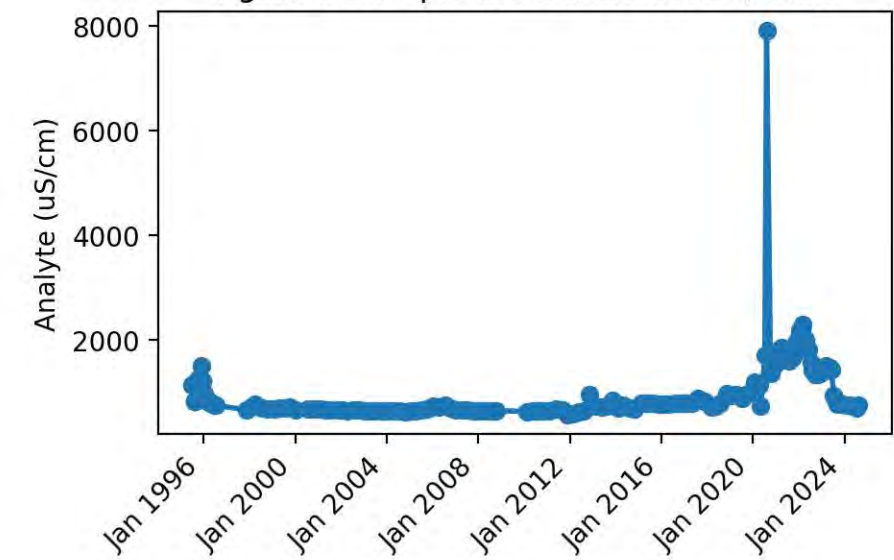


Figure 22d. Magnesium

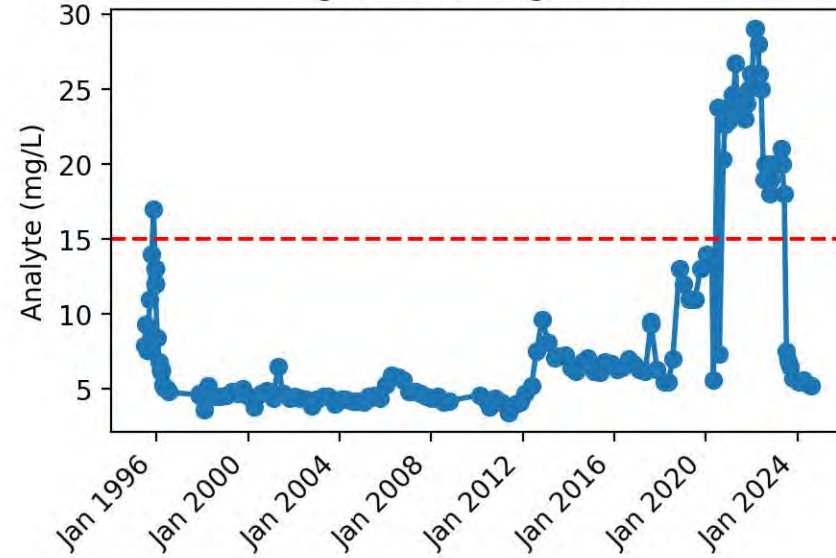


Figure 22e. Sulfate

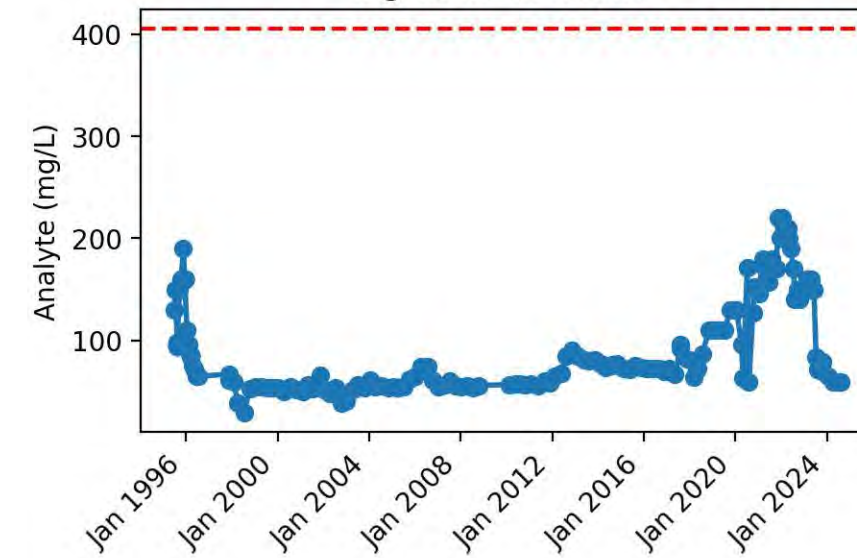


Figure 22f. Fluoride

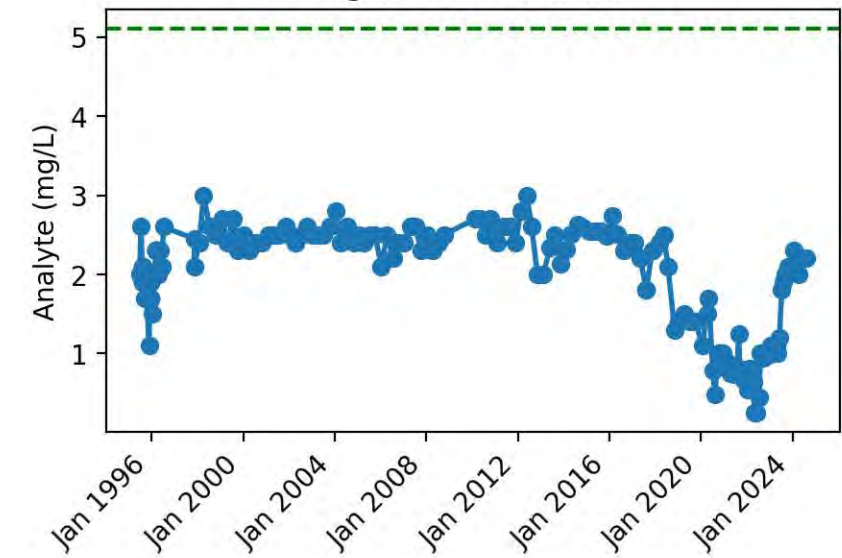
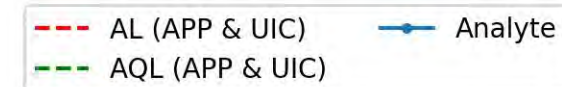
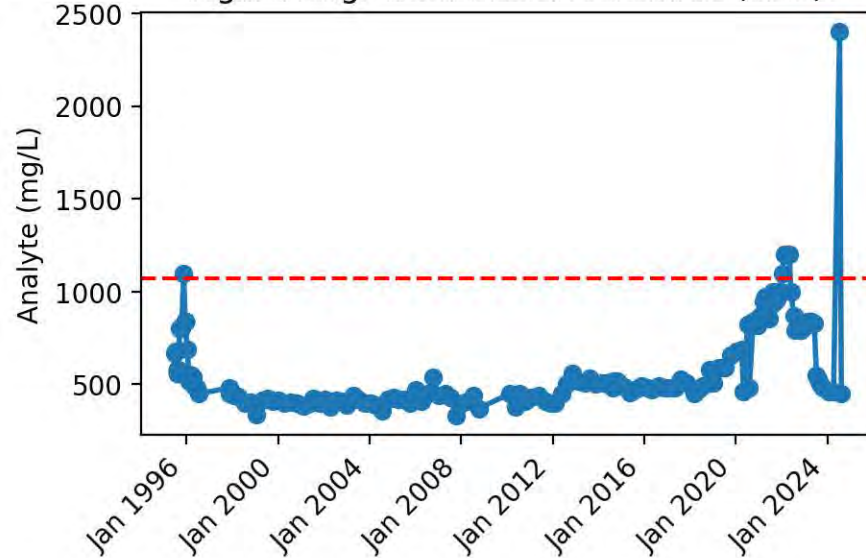


Figure 22g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M52-UBF Quarterly Analyte Graphs

Figure 23a. Temperature, Field

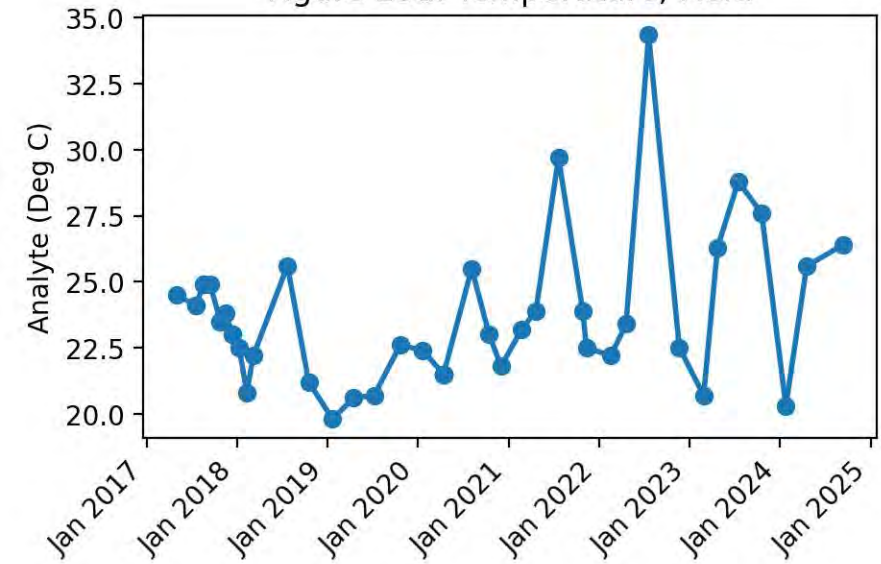


Figure 23b. pH, Field

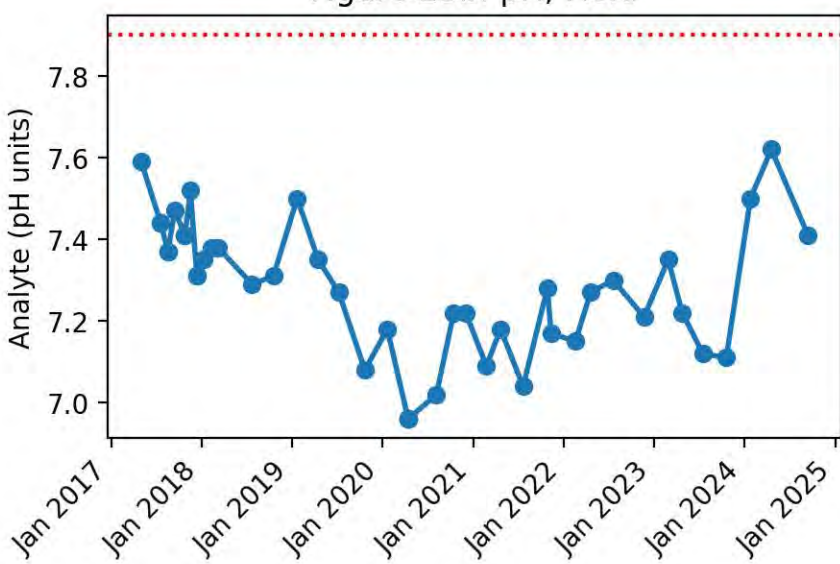


Figure 23c. Specific Conductance, Field

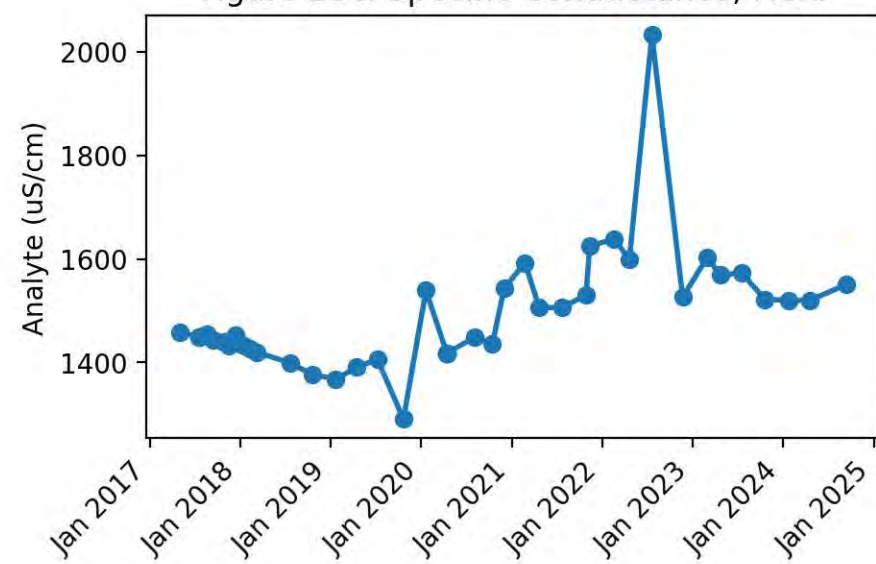


Figure 23d. Magnesium

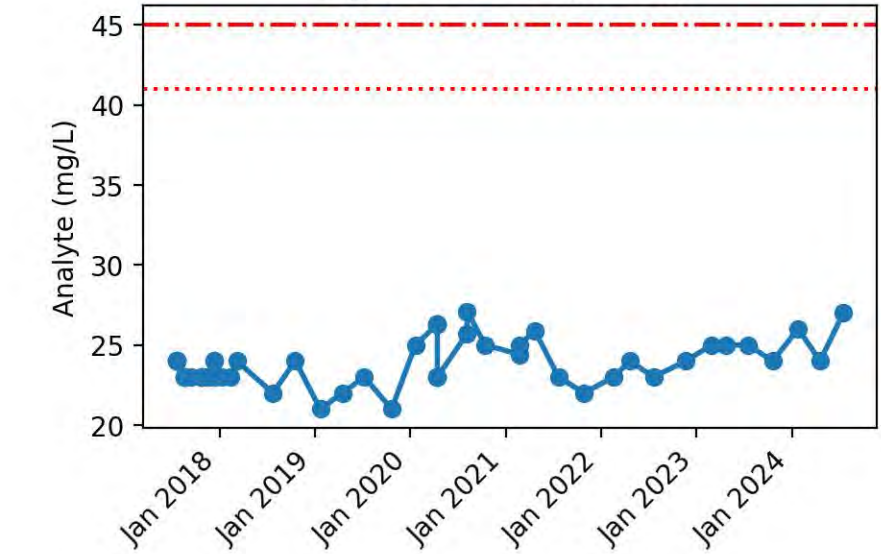


Figure 23e. Sulfate

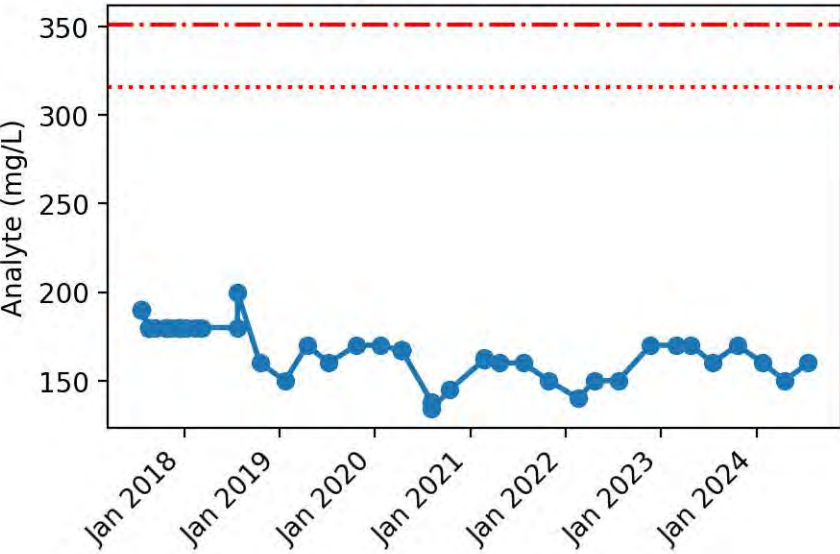


Figure 23f. Fluoride

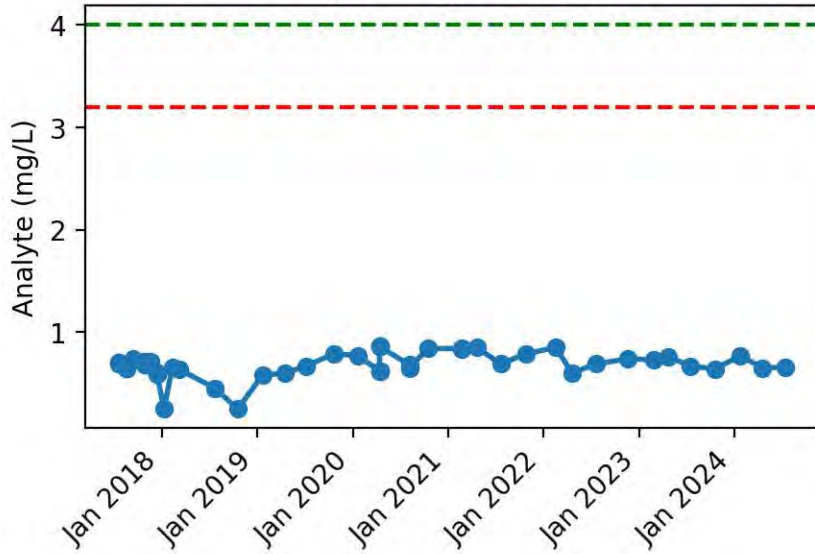
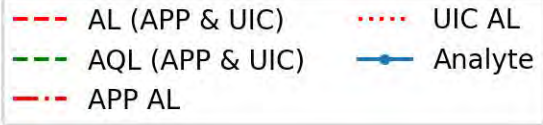
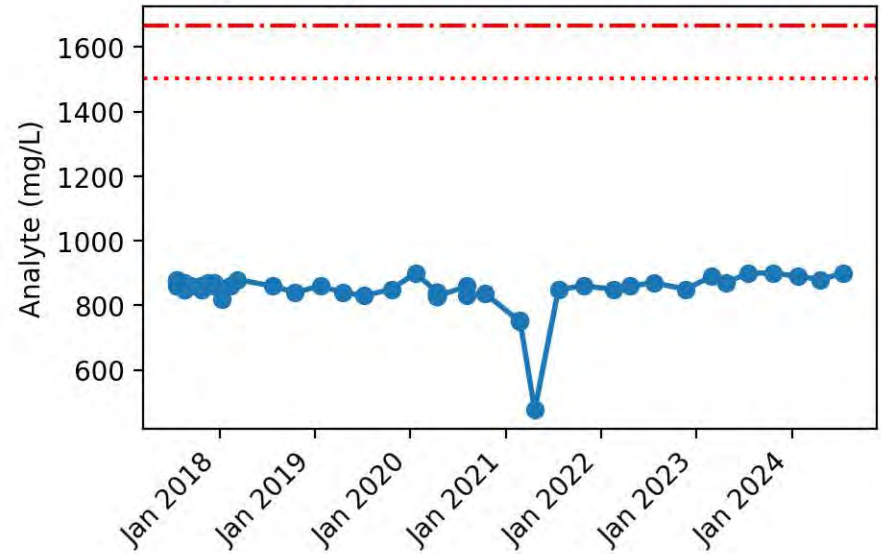


Figure 23g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M54-LBF Quarterly Analyte Graphs

Figure 24a. Temperature, Field

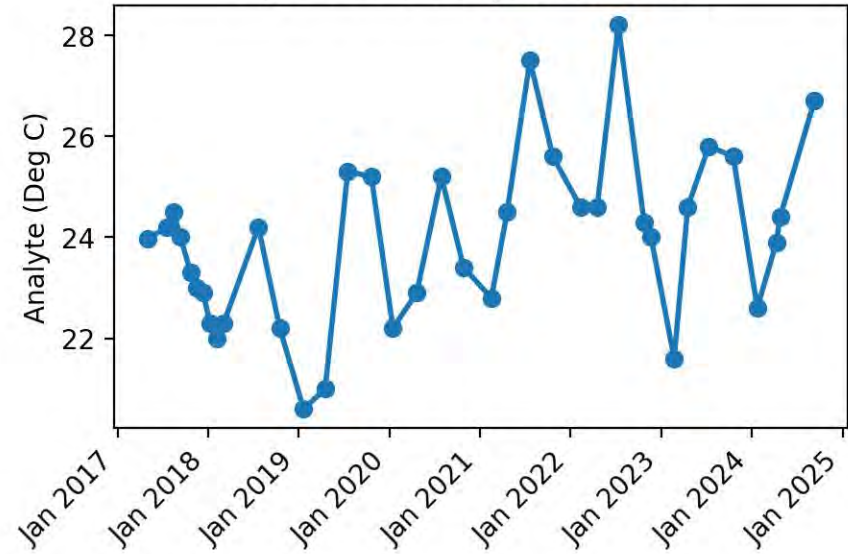


Figure 24b. pH, Field

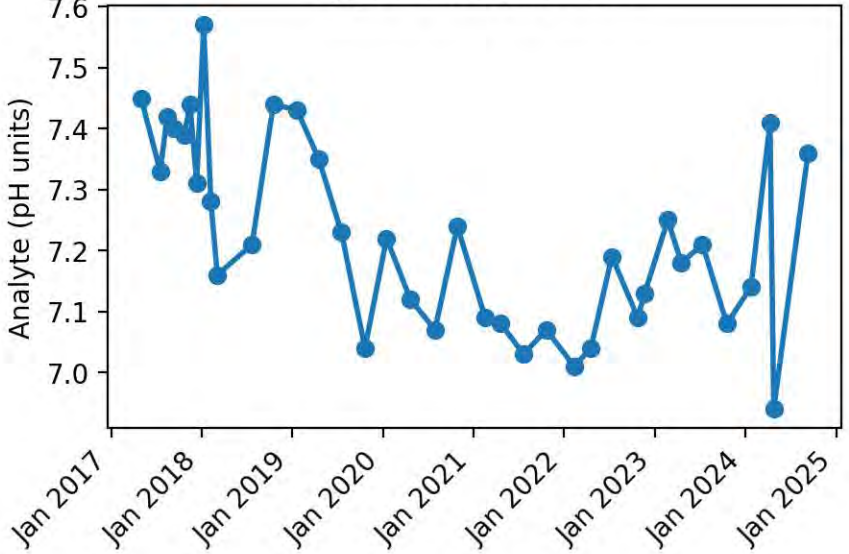


Figure 24c. Specific Conductance, Field

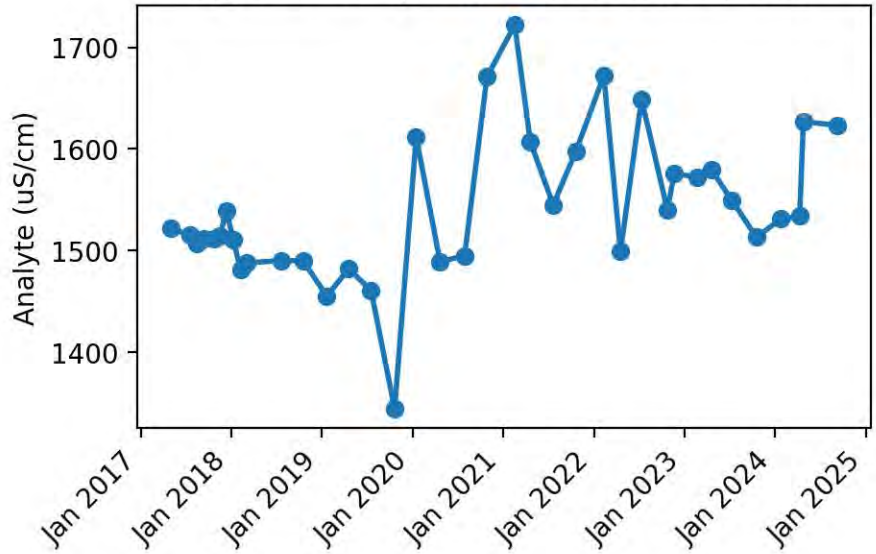


Figure 24d. Magnesium

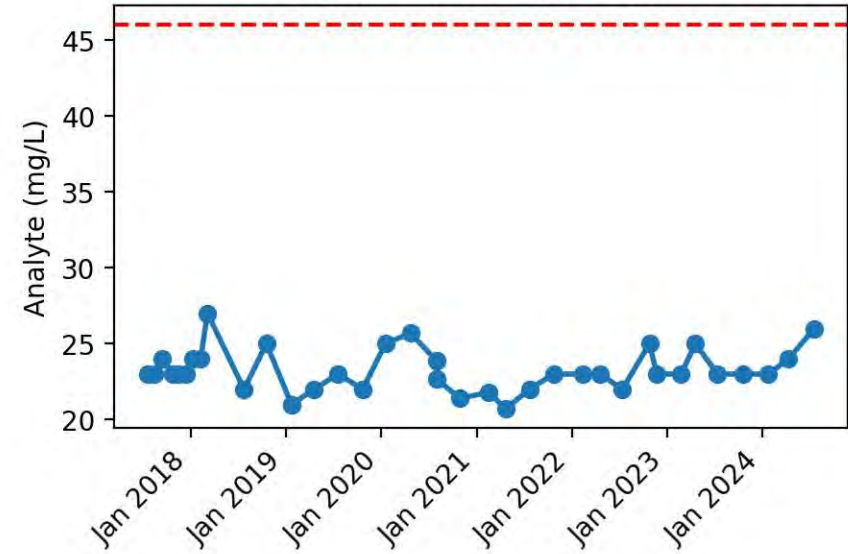


Figure 24e. Sulfate

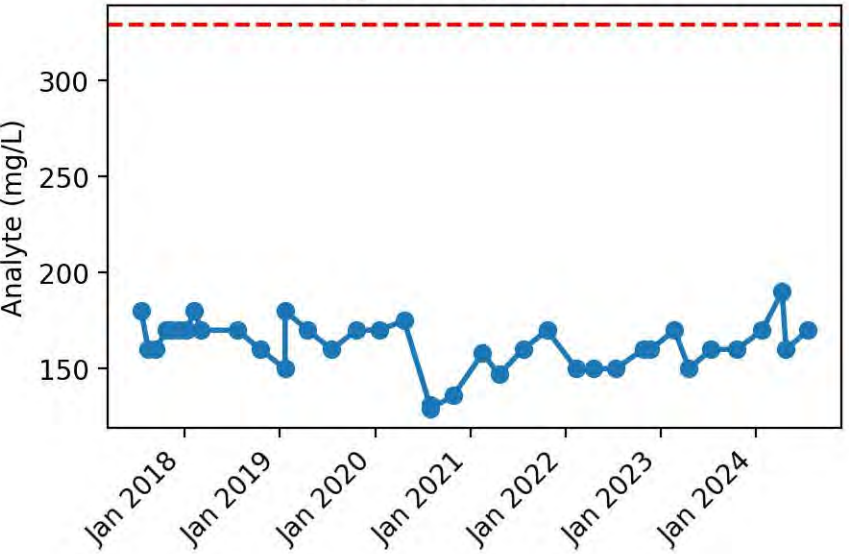


Figure 24f. Fluoride

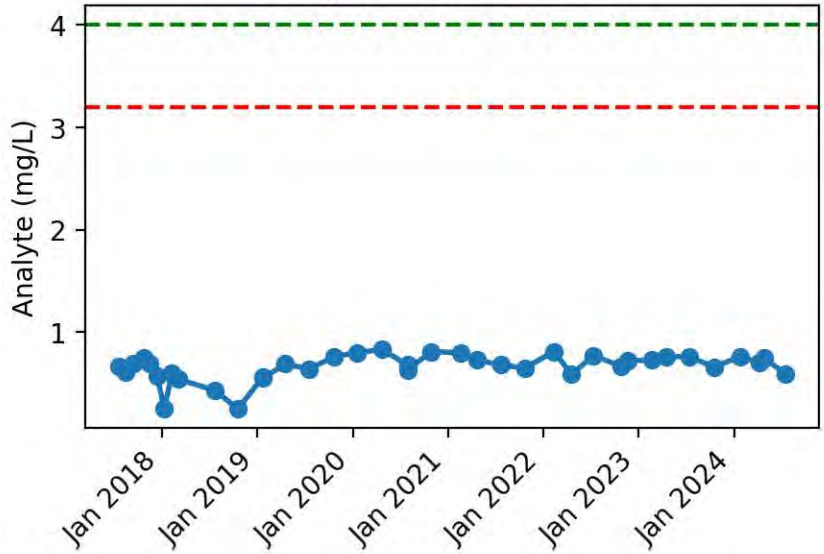
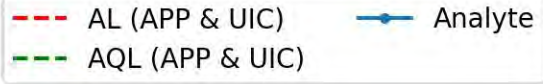
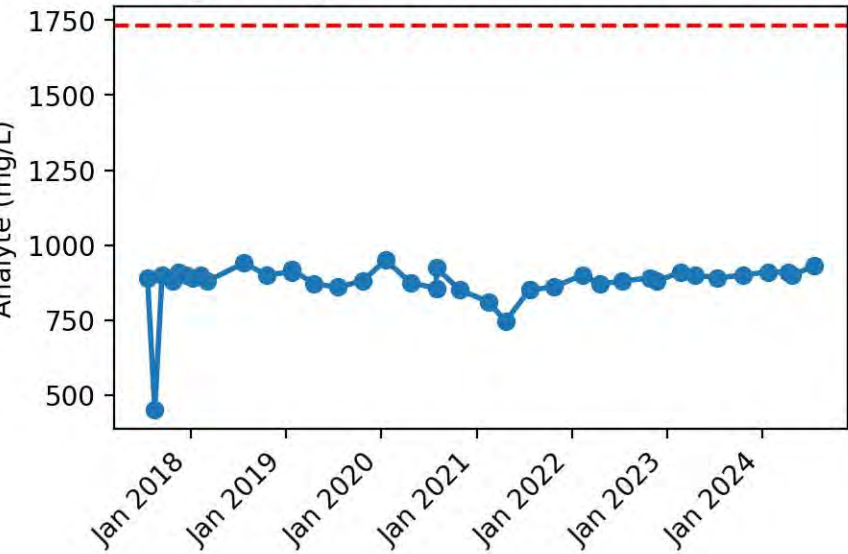


Figure 24g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

M54-O Quarterly Analyte Graphs

Figure 25a. Temperature, Field

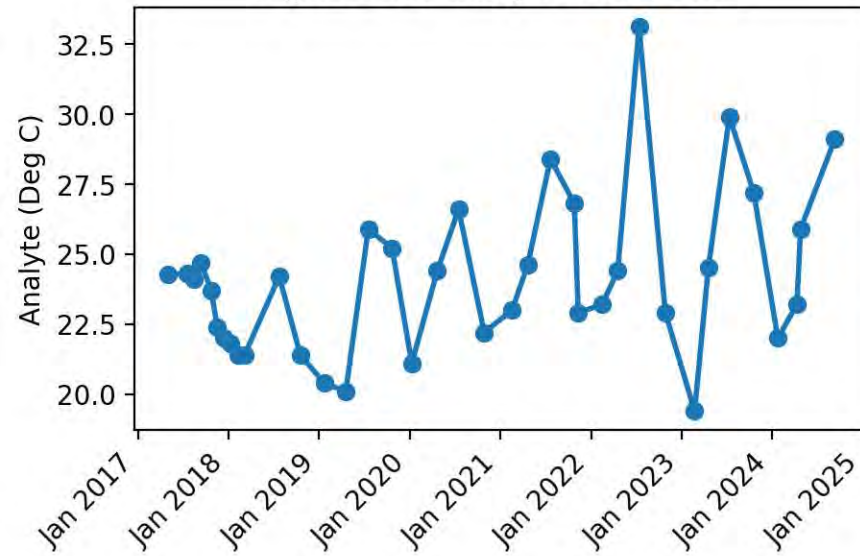


Figure 25b. pH, Field

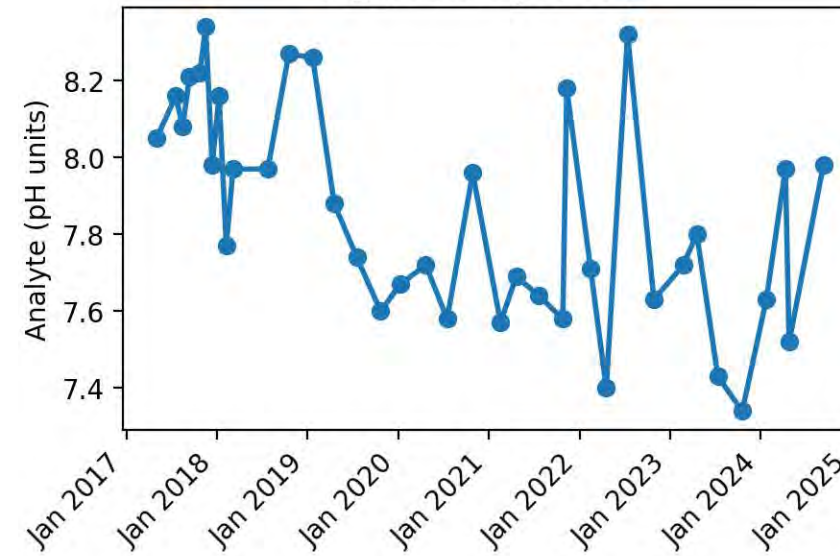


Figure 25c. Specific Conductance, Field

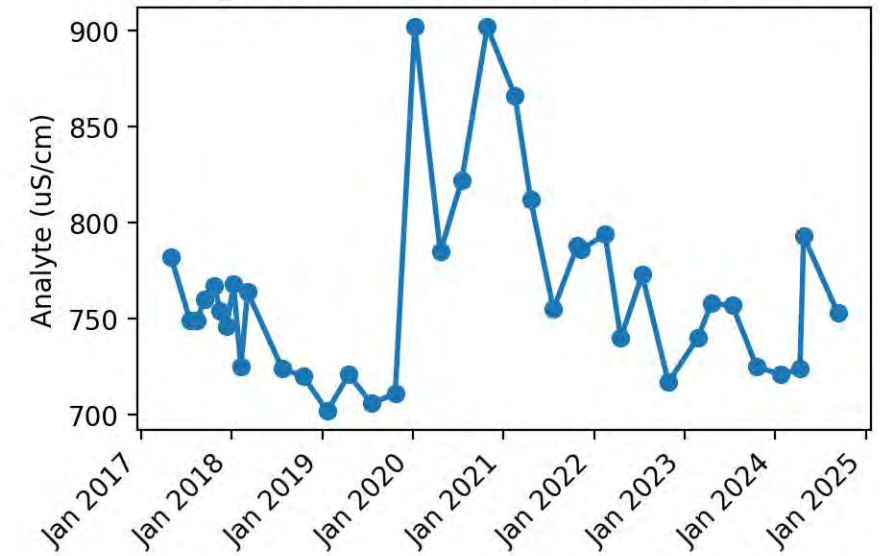


Figure 25d. Magnesium

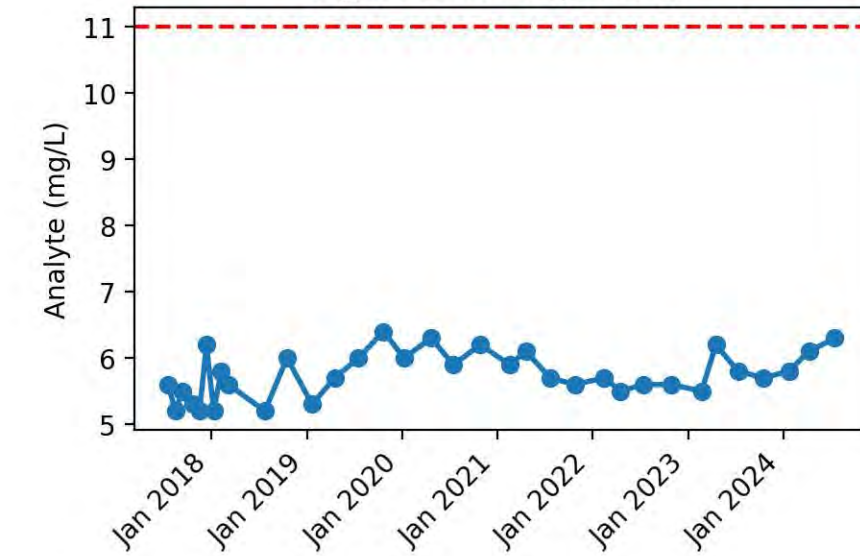


Figure 25e. Sulfate

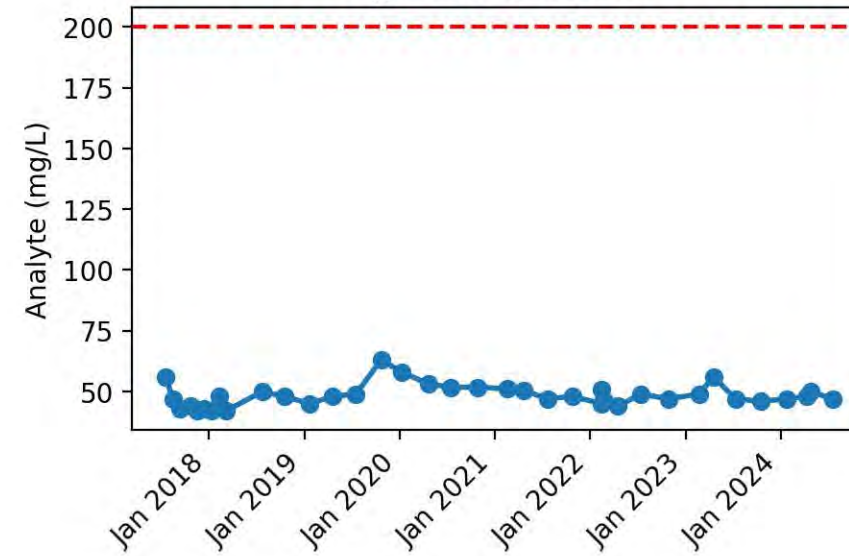


Figure 25f. Fluoride

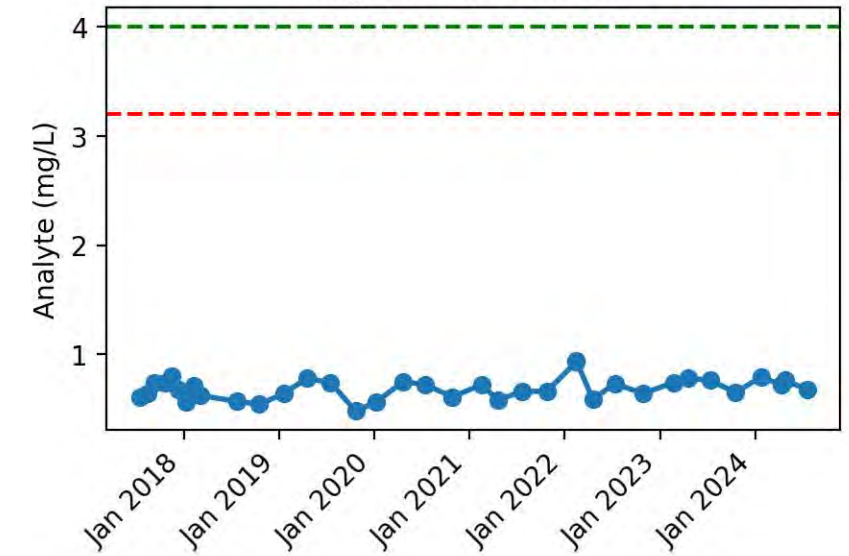
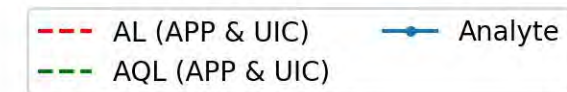
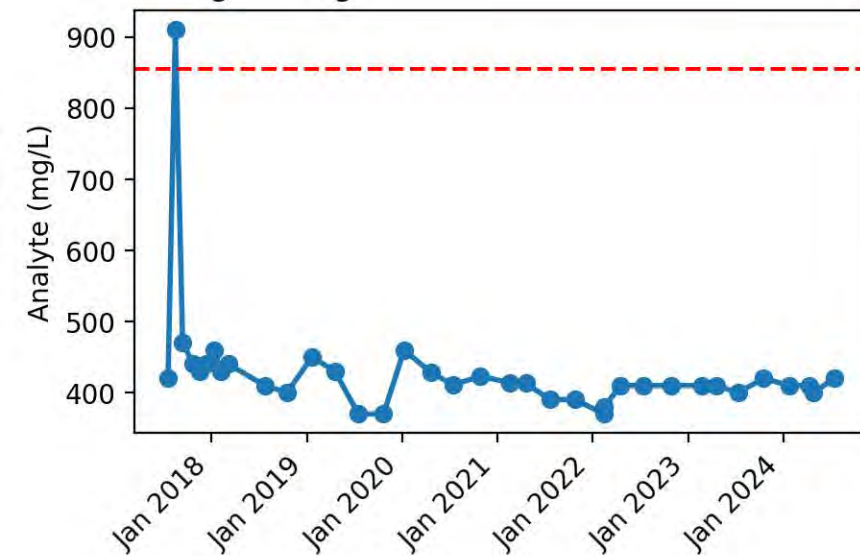


Figure 25g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M6-GU Quarterly Analyte Graphs

Figure 26a. Temperature, Field

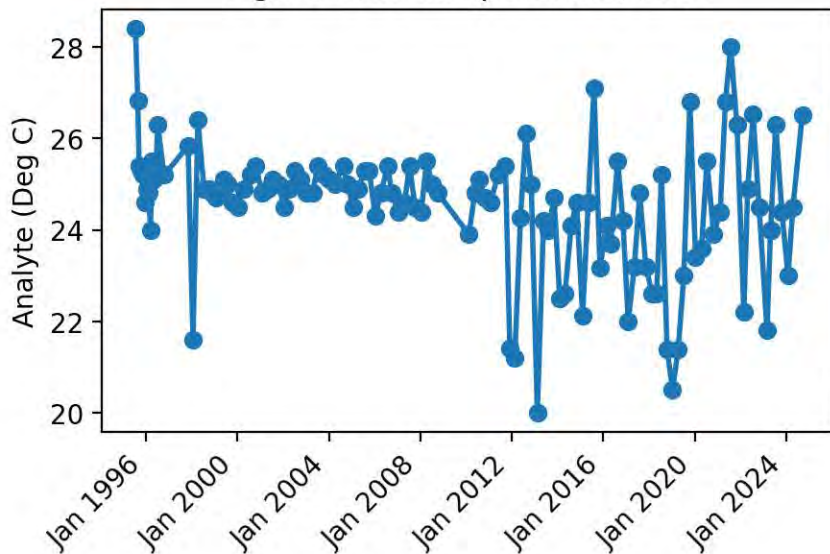


Figure 26b. pH, Field

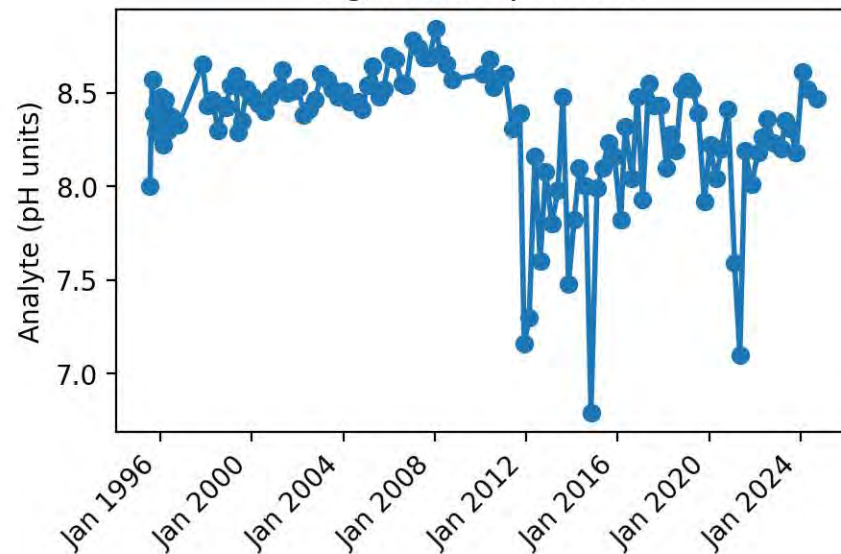


Figure 26c. Specific Conductance, Field

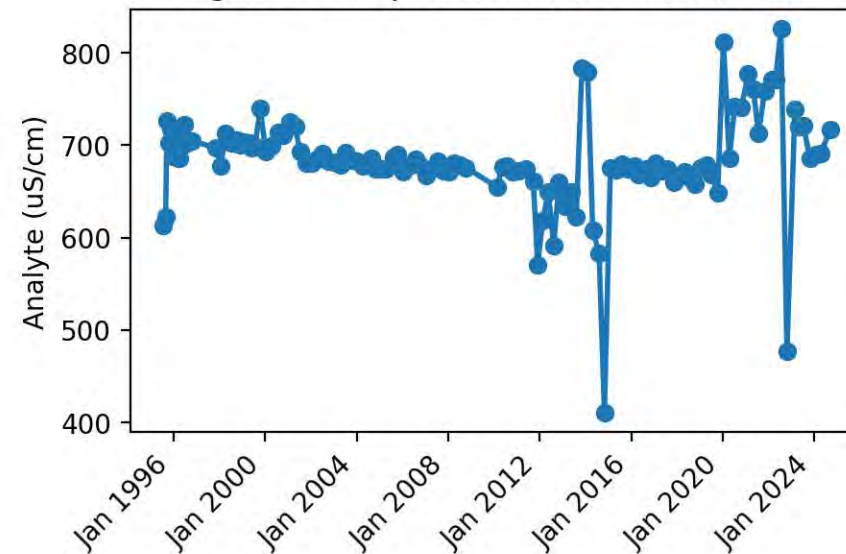


Figure 26d. Magnesium

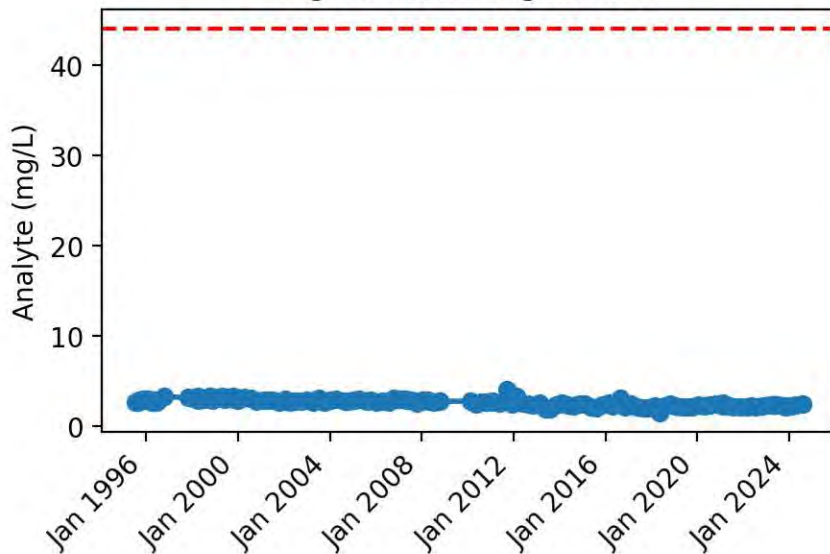


Figure 26e. Sulfate

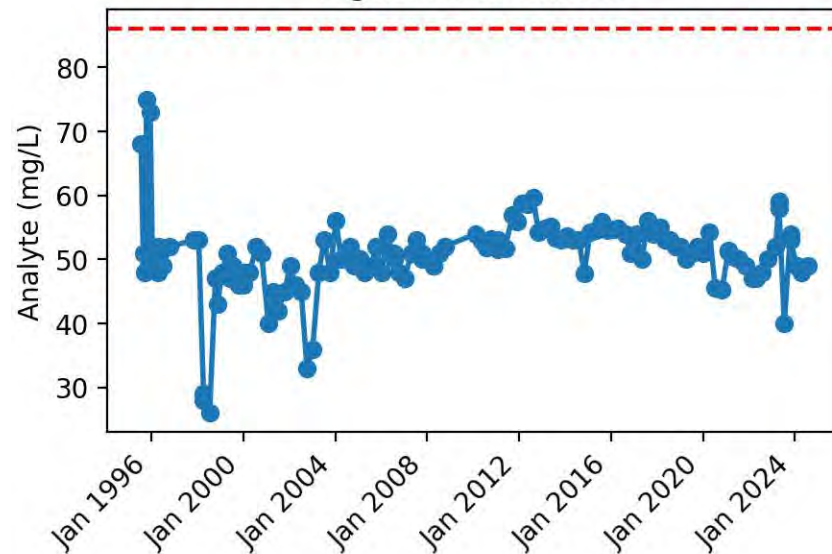


Figure 26f. Fluoride

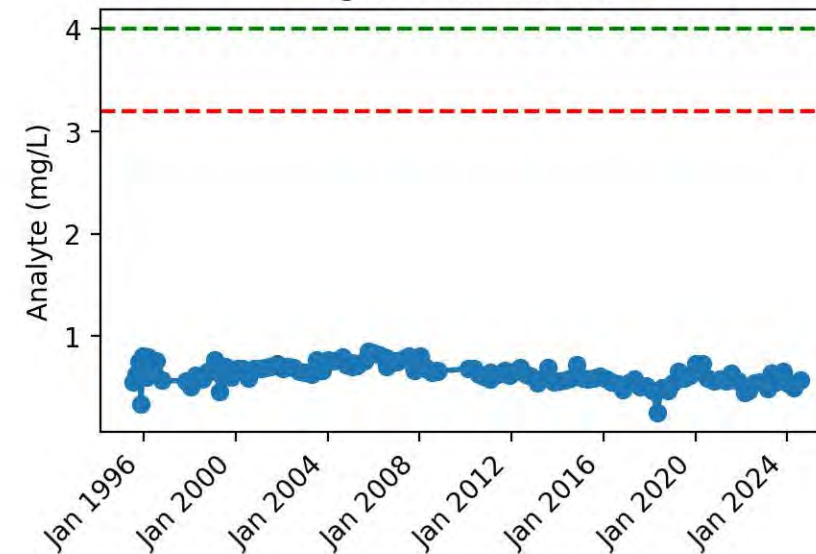
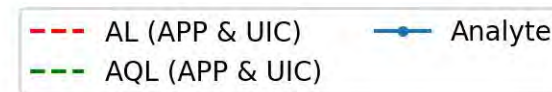
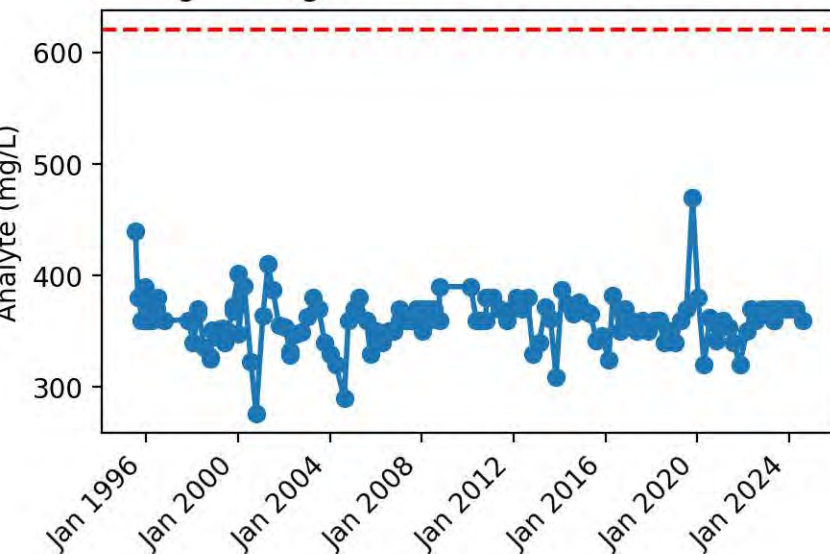


Figure 26g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M7-GL Quarterly Analyte Graphs

Figure 27a. Temperature, Field

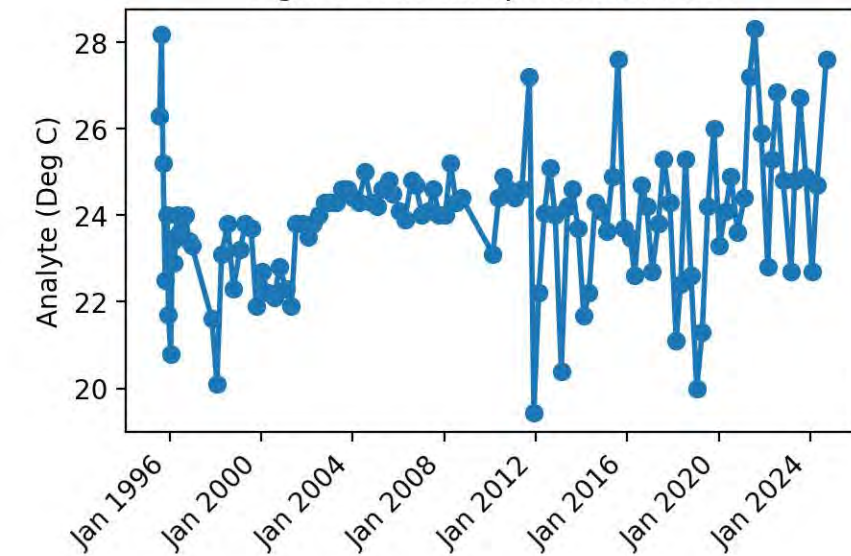


Figure 27b. pH, Field

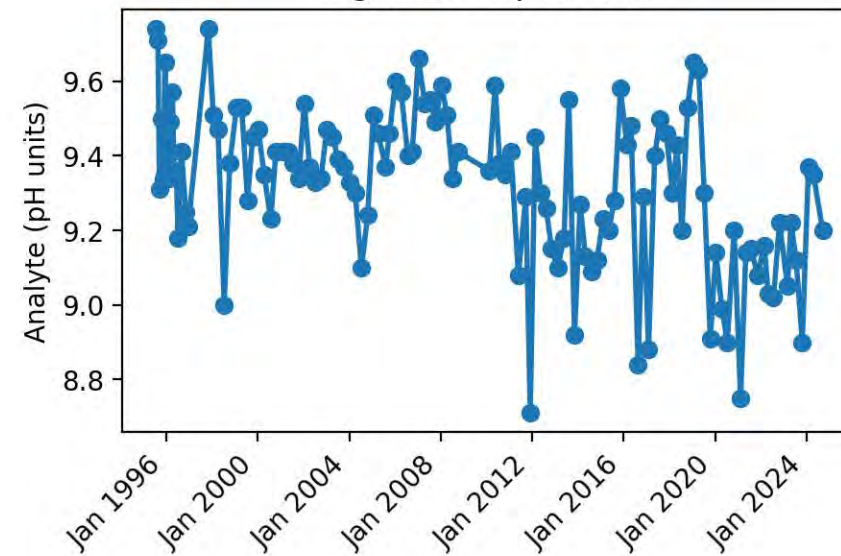


Figure 27c. Specific Conductance, Field

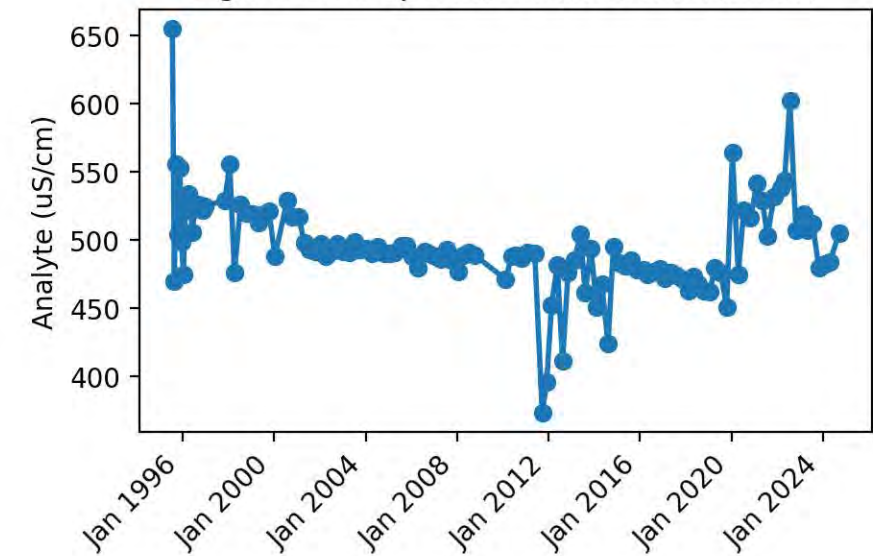


Figure 27d. Magnesium

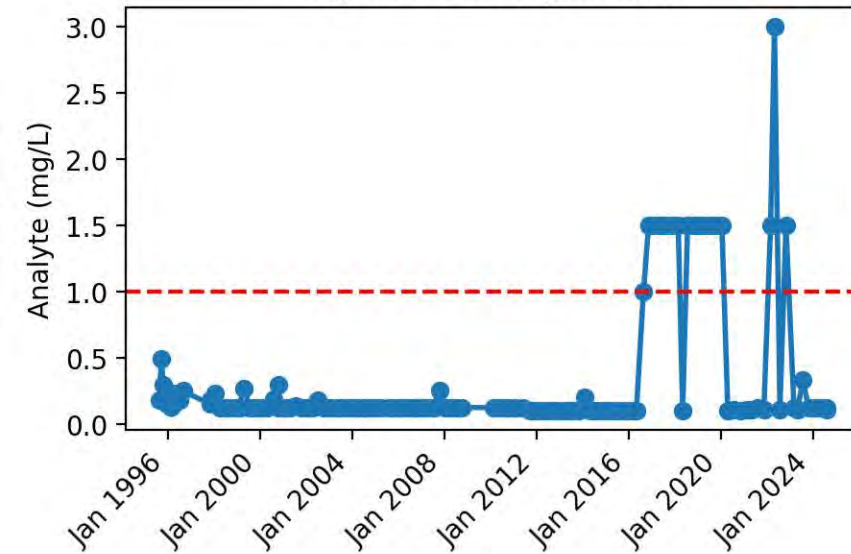


Figure 27e. Sulfate

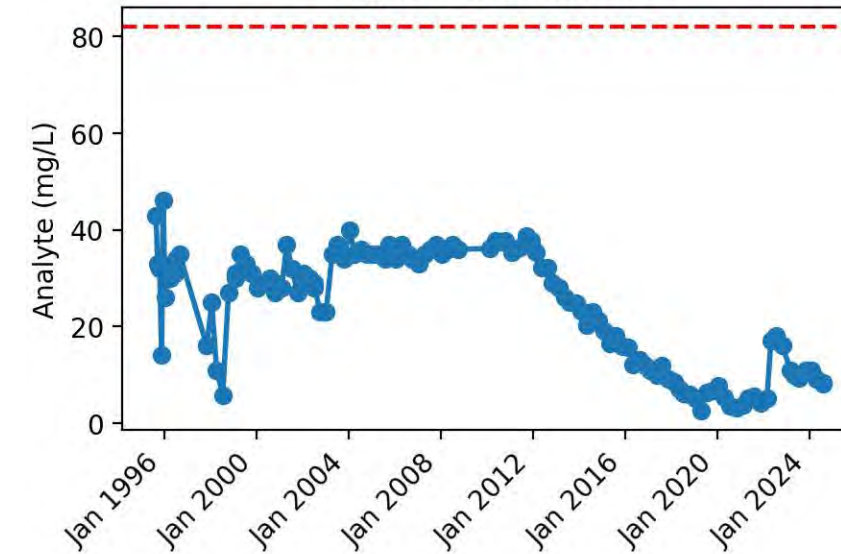


Figure 27f. Fluoride

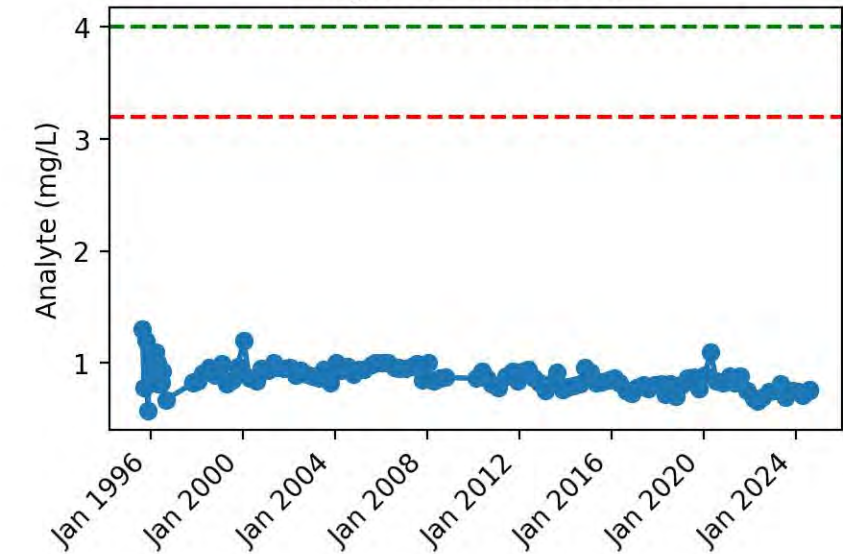
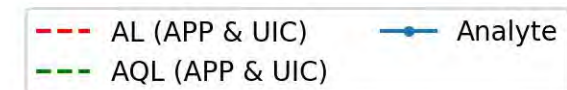
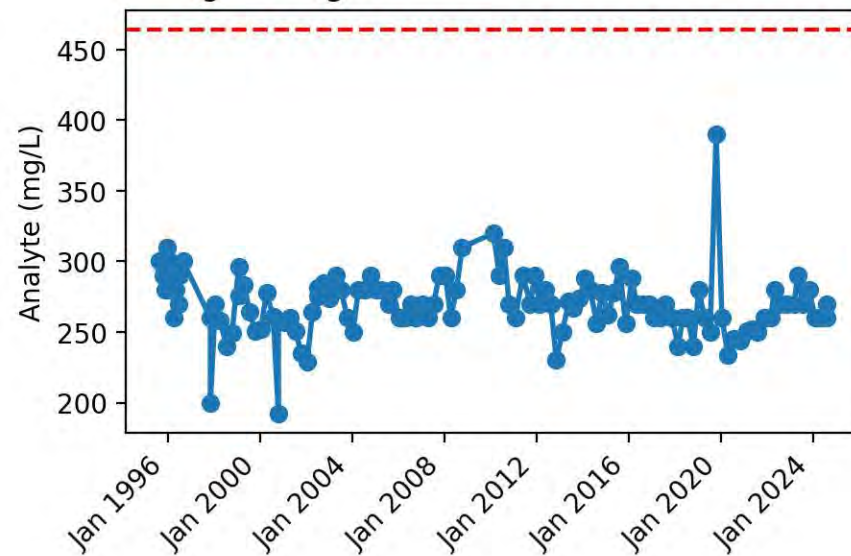


Figure 27g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

M8-O Quarterly Analyte Graphs

Figure 28a. Temperature, Field

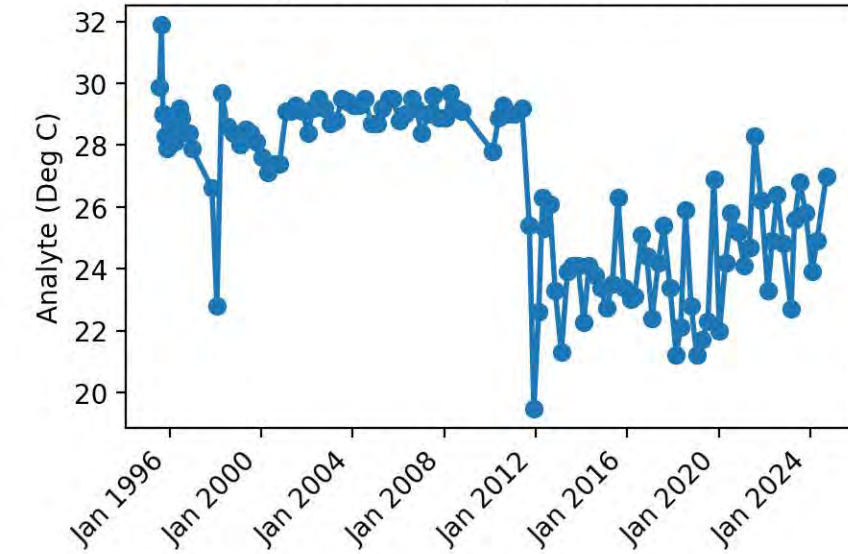


Figure 28b. pH, Field

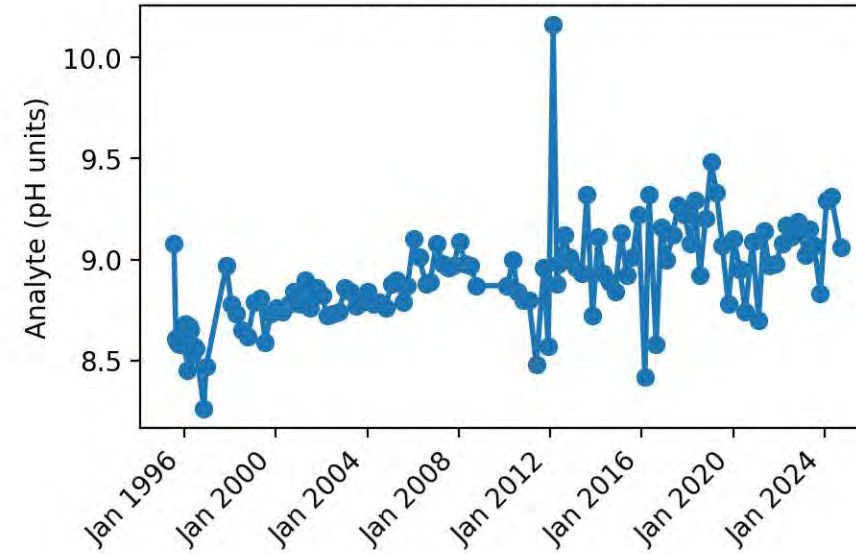


Figure 28c. Specific Conductance, Field

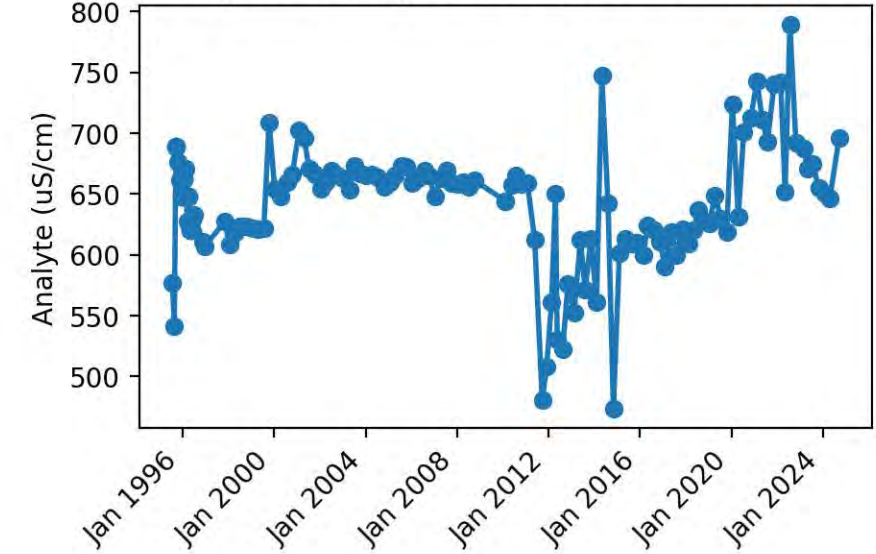


Figure 28d. Magnesium

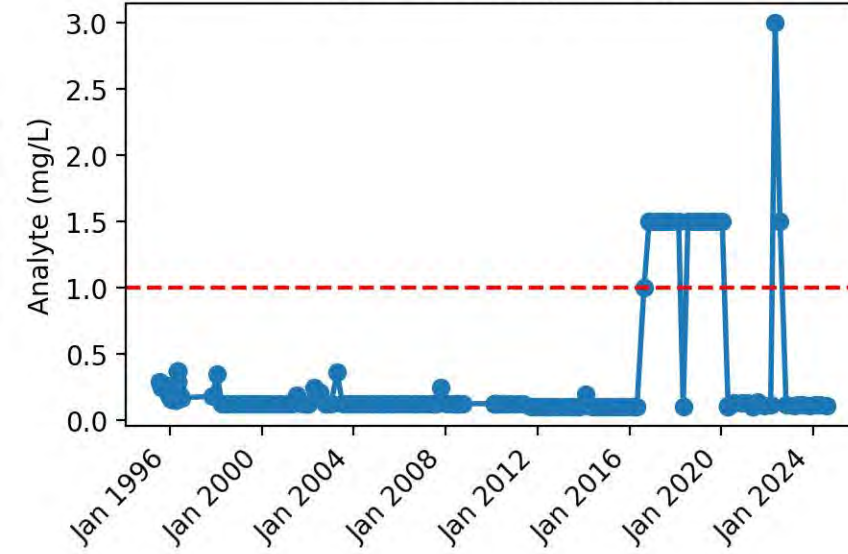


Figure 28e. Sulfate

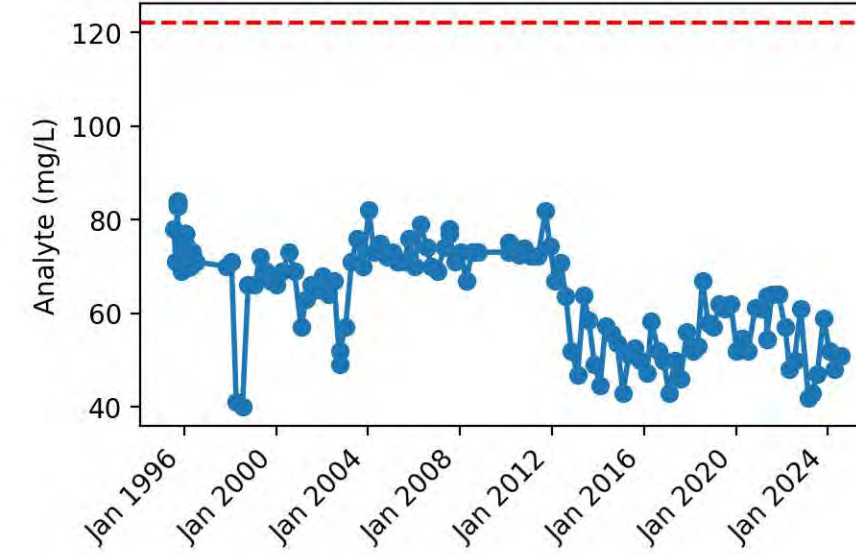


Figure 28f. Fluoride

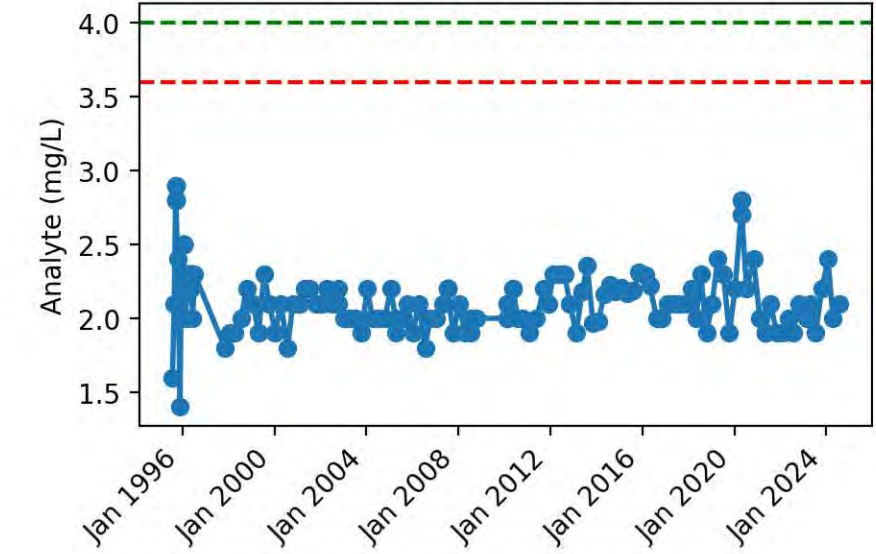
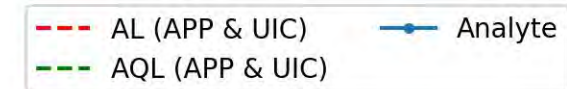
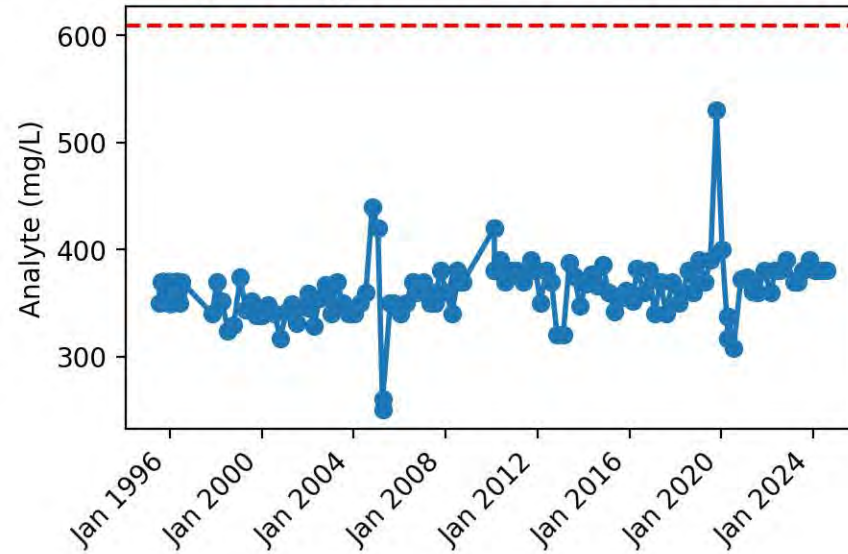


Figure 28g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

O19-GL Quarterly Analyte Graphs

Figure 29a. Temperature, Field

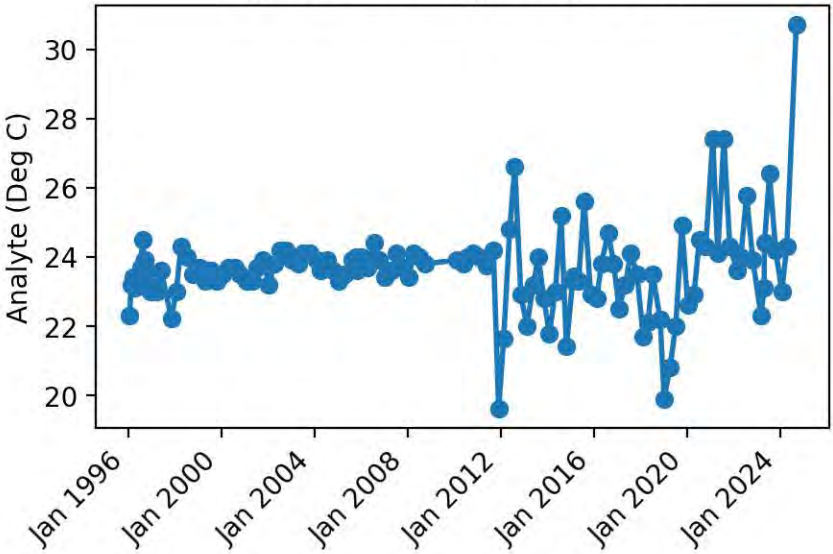


Figure 29b. pH, Field

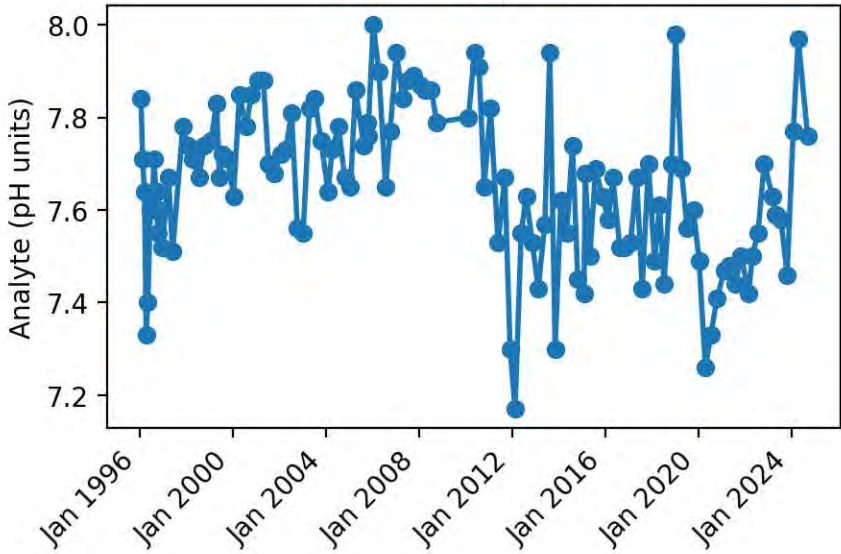


Figure 29c. Specific Conductance, Field

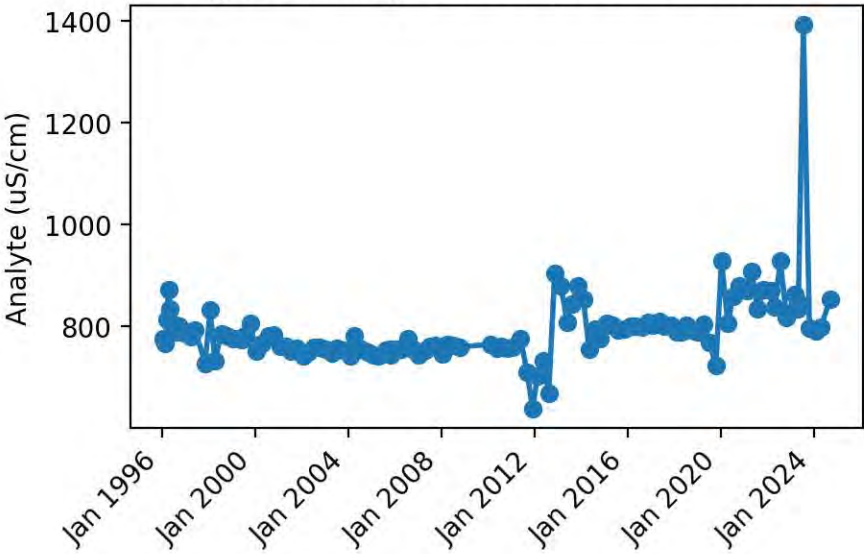


Figure 29d. Magnesium

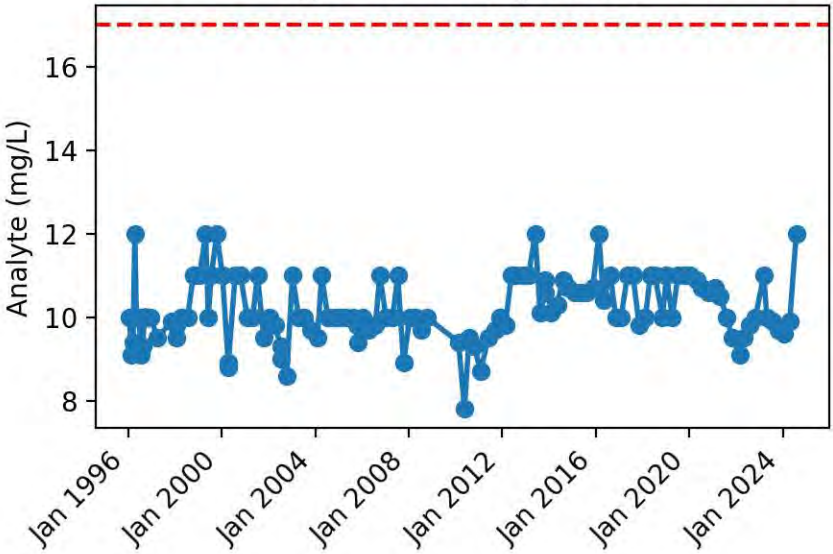


Figure 29e. Sulfate

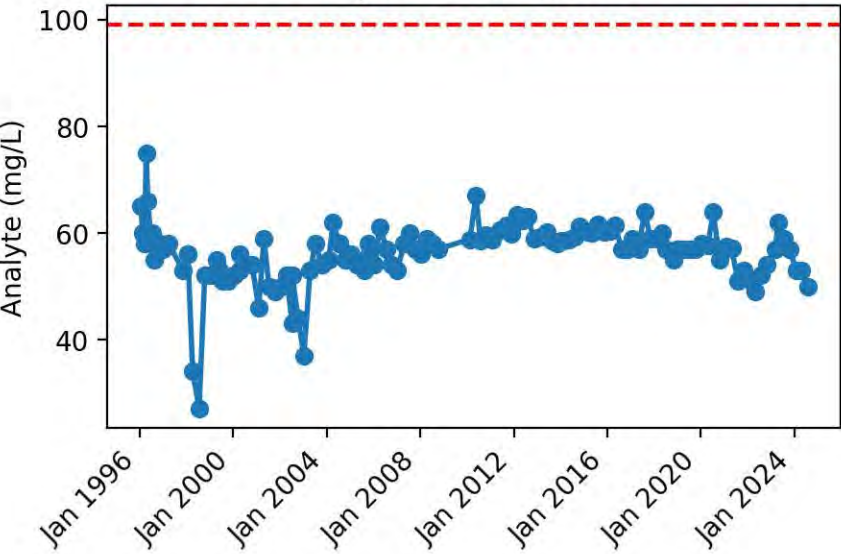


Figure 29f. Fluoride

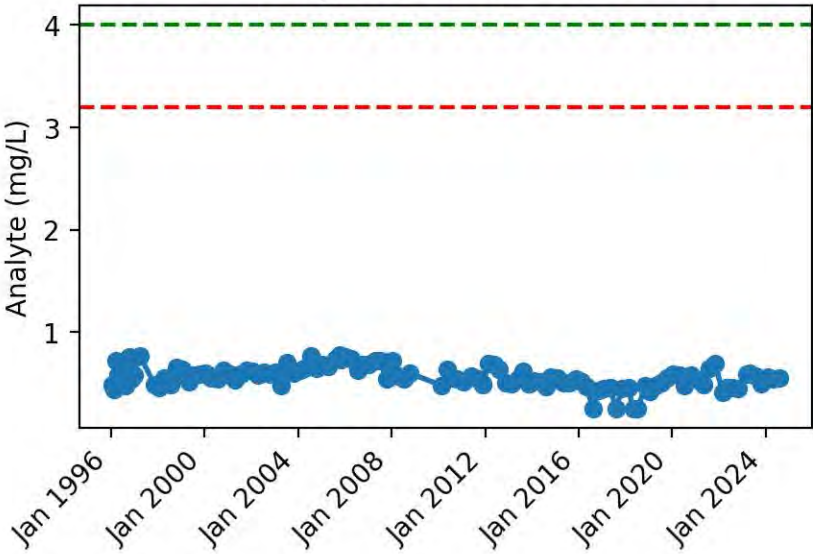
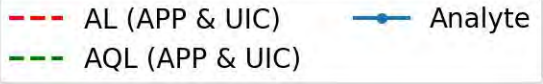
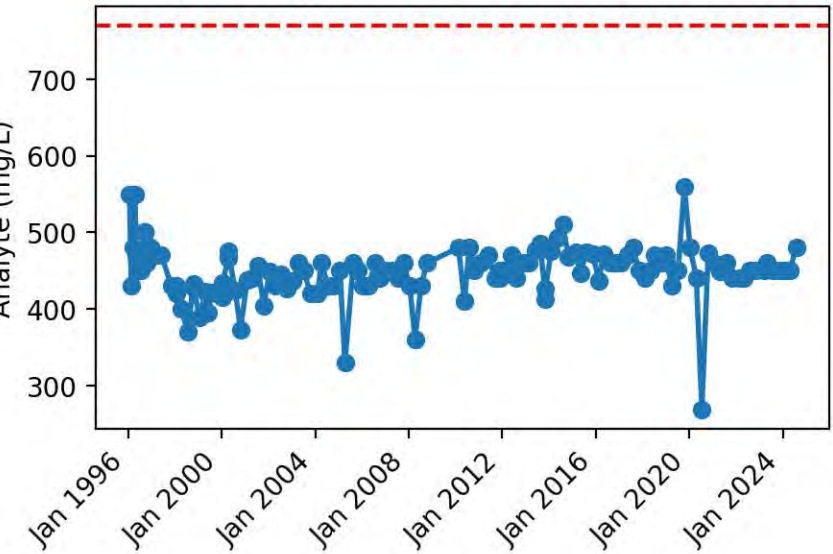


Figure 29g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

O49-GL(R) Quarterly Analyte Graphs

Figure 30a. Temperature, Field

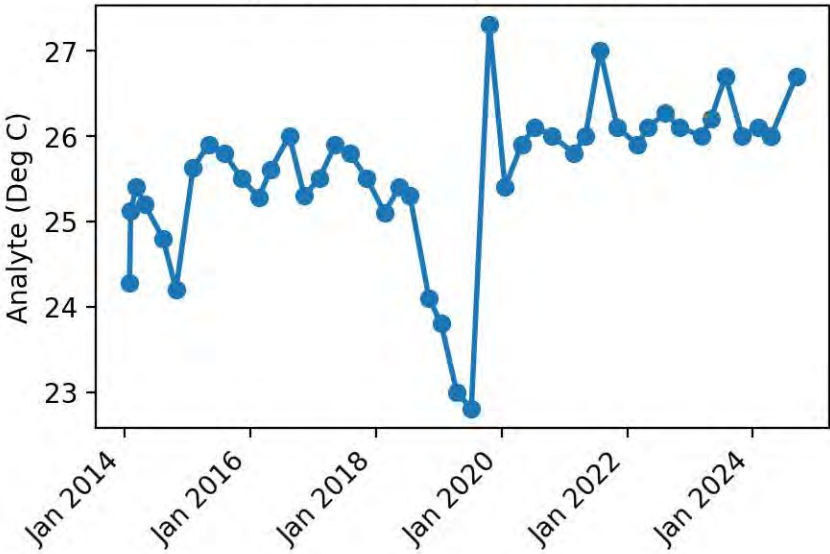


Figure 30b. pH, Field

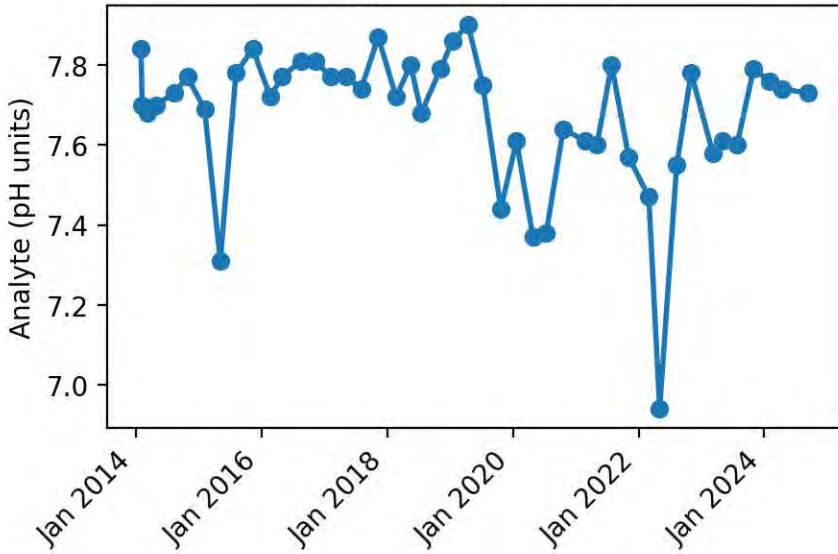


Figure 30c. Specific Conductance, Field

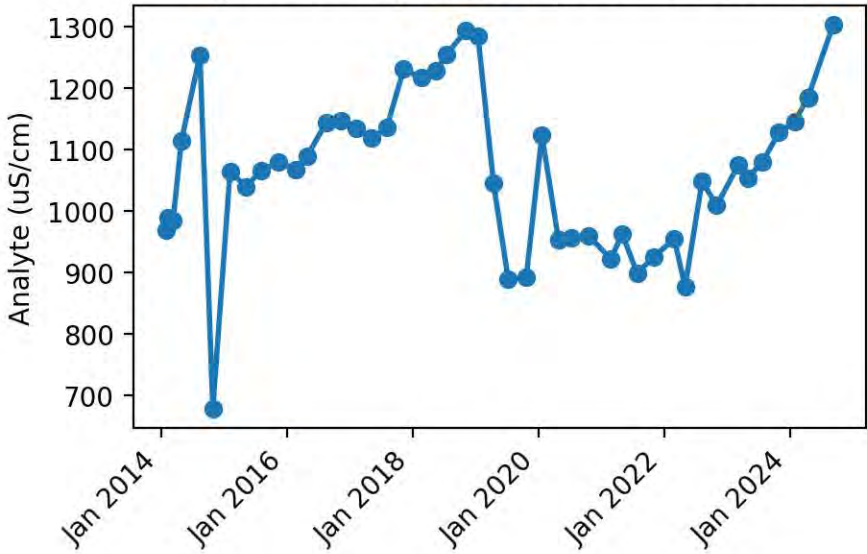


Figure 30d. Magnesium

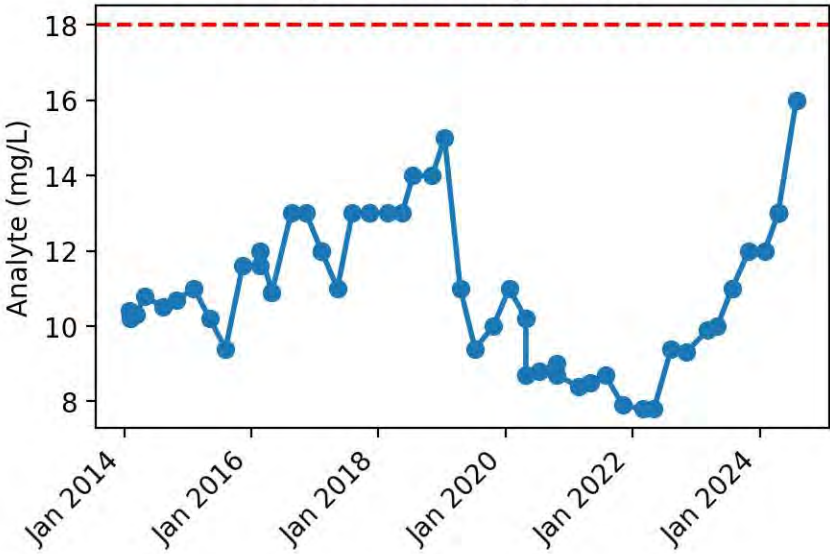


Figure 30e. Sulfate

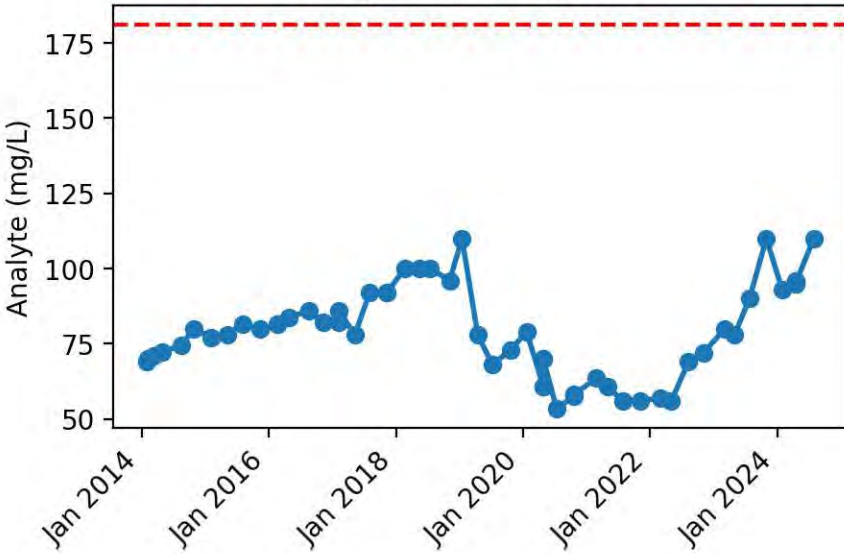


Figure 30f. Fluoride

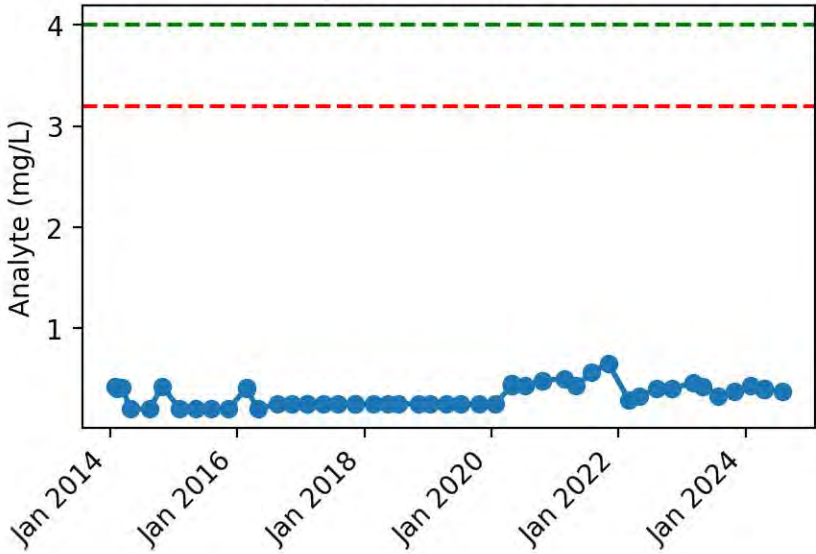
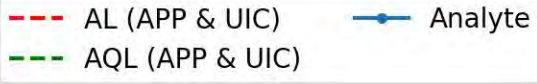
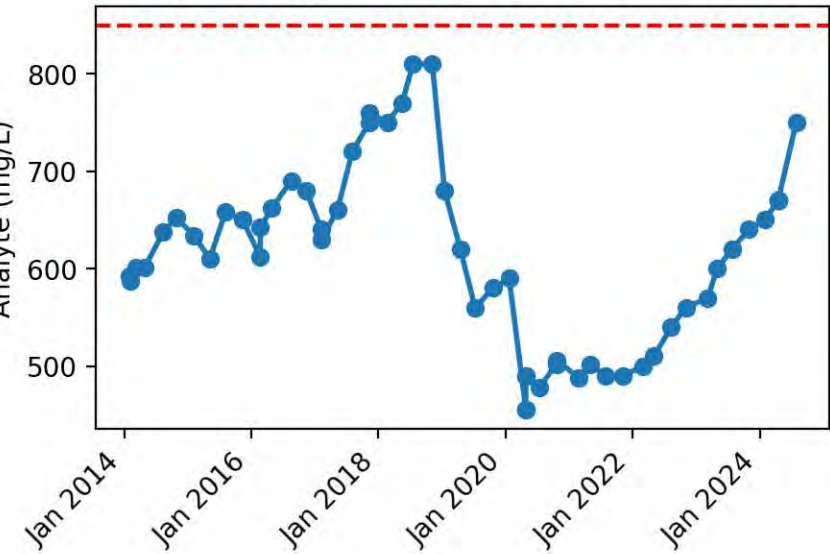


Figure 30g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

P19-1-O Quarterly Analyte Graphs

Figure 31a. Temperature, Field

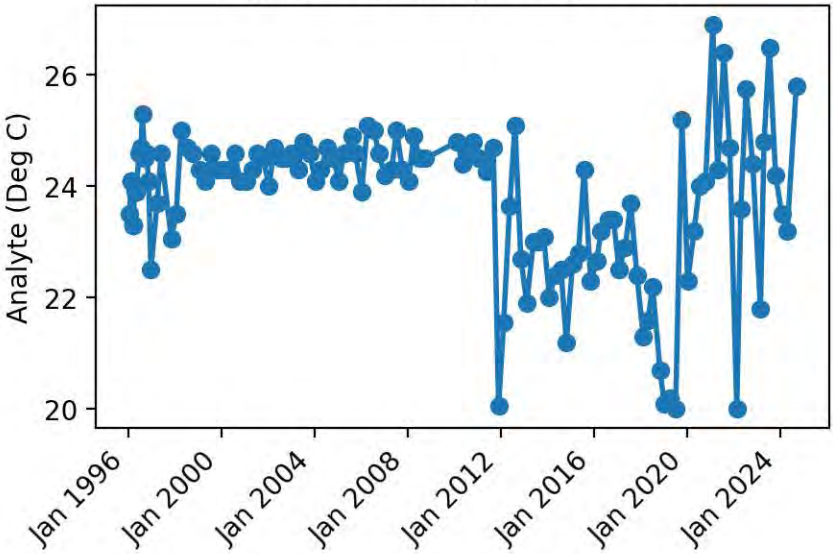


Figure 31b. pH, Field

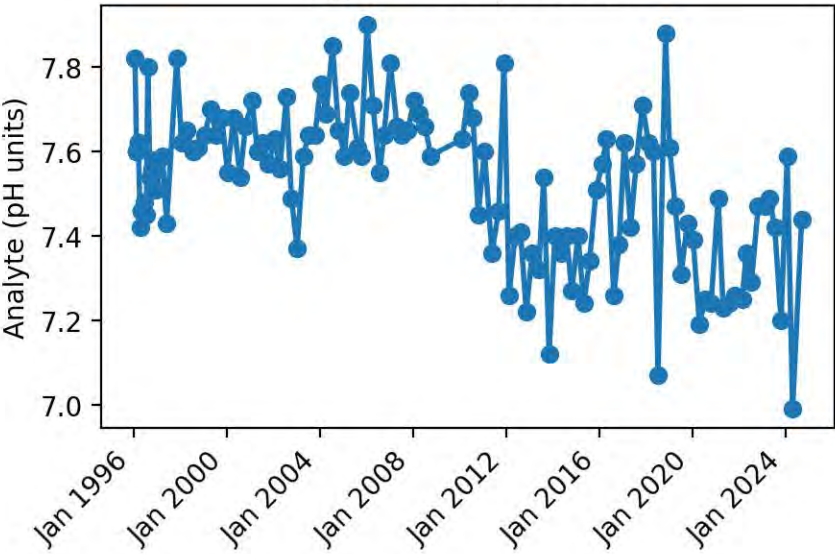


Figure 31c. Specific Conductance, Field

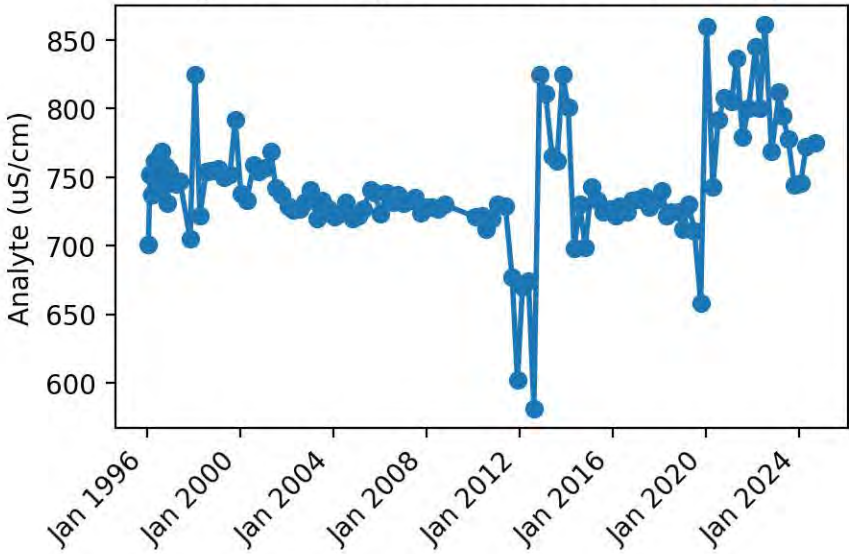


Figure 31d. Magnesium

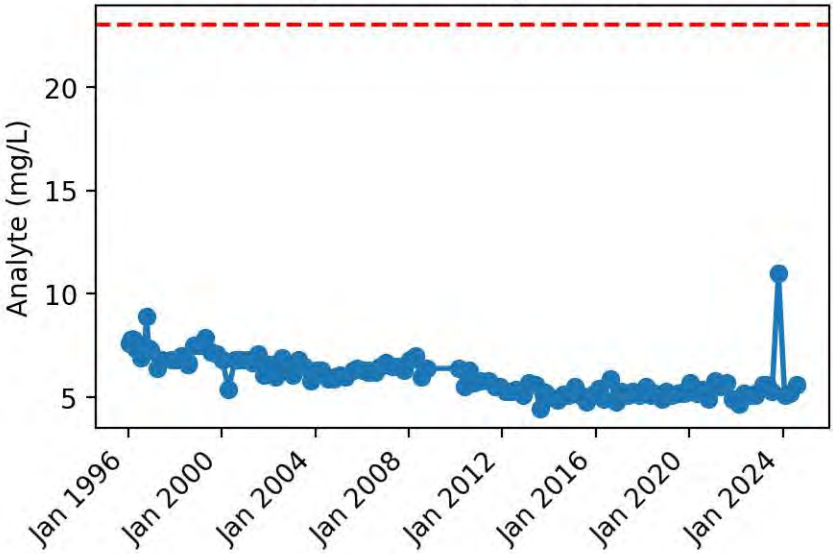


Figure 31e. Sulfate

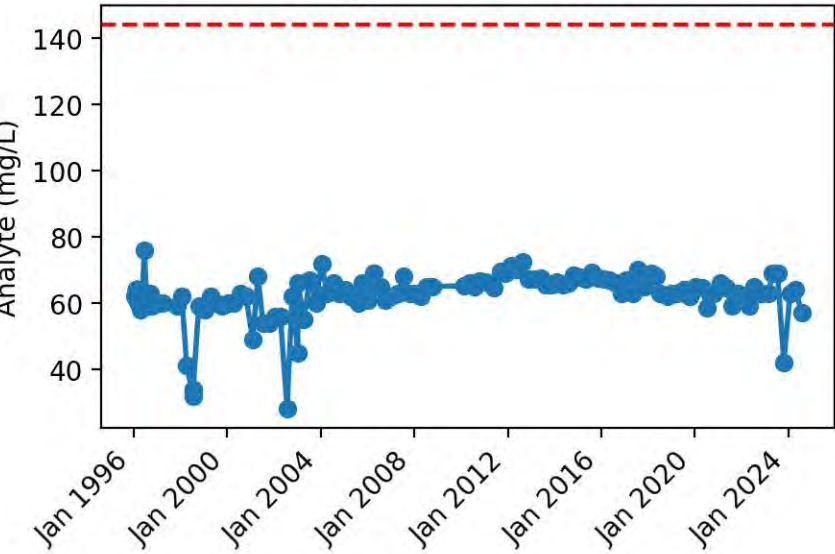


Figure 31f. Fluoride

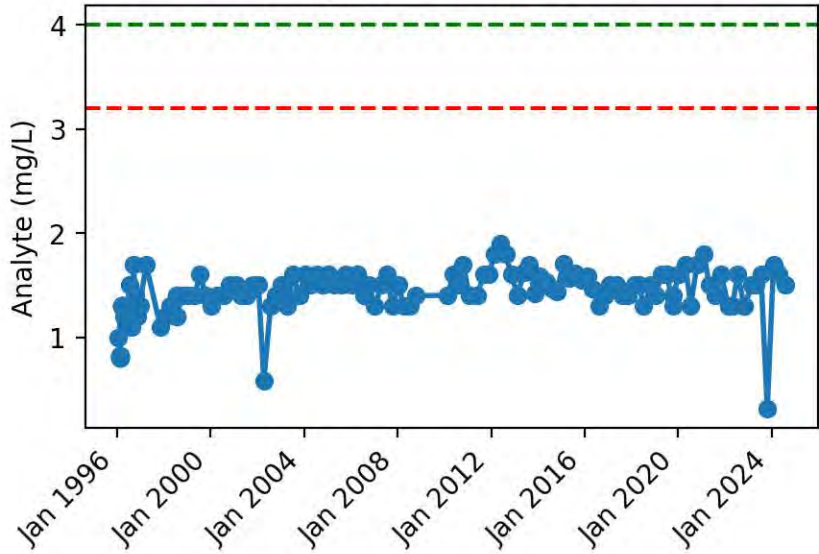
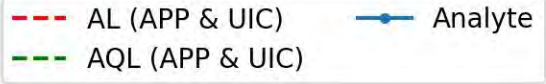
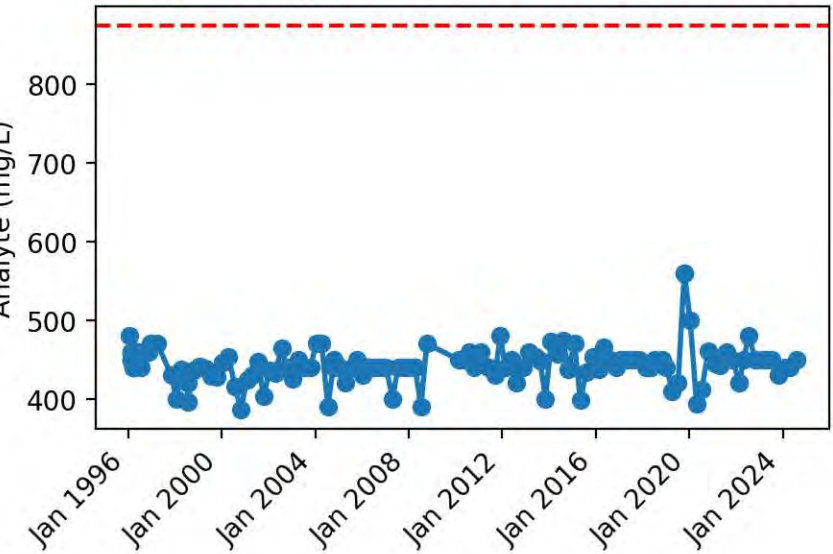


Figure 31g. Total Dissolved Solids (TDS)



Notes:
AL = Alert Level
AQL = Aquifer Quality Limit
APP = Aquifer Protection Permit No. P-101704
UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1
Displayed ALs and AQLs represent the current reporting period

P49-O Quarterly Analyte Graphs

Figure 32a. Temperature, Field

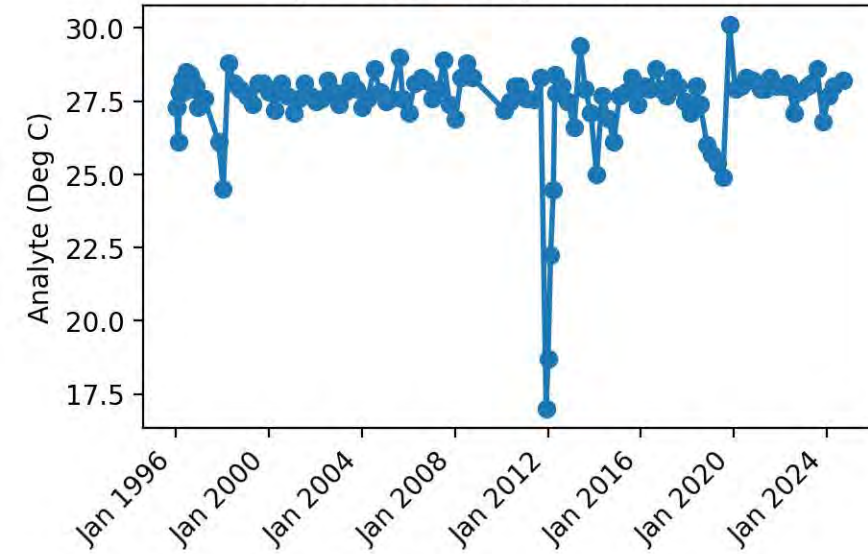


Figure 32b. pH, Field

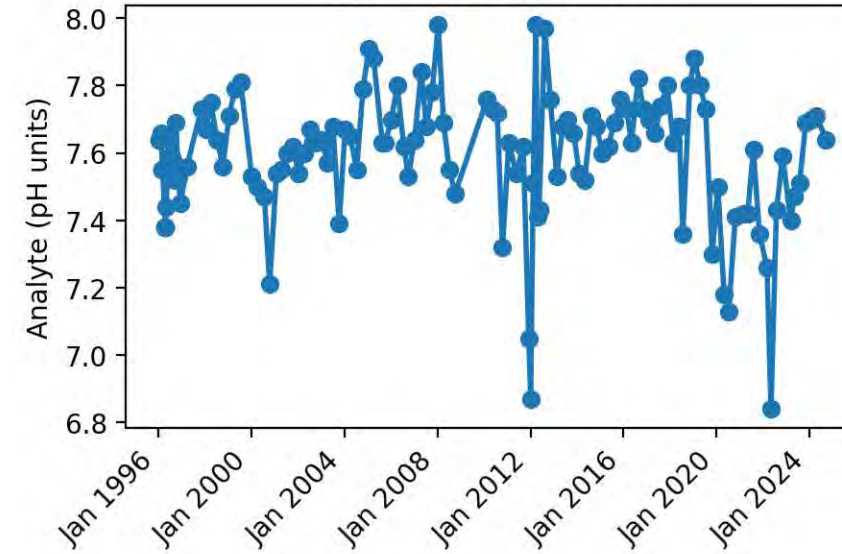


Figure 32c. Specific Conductance, Field

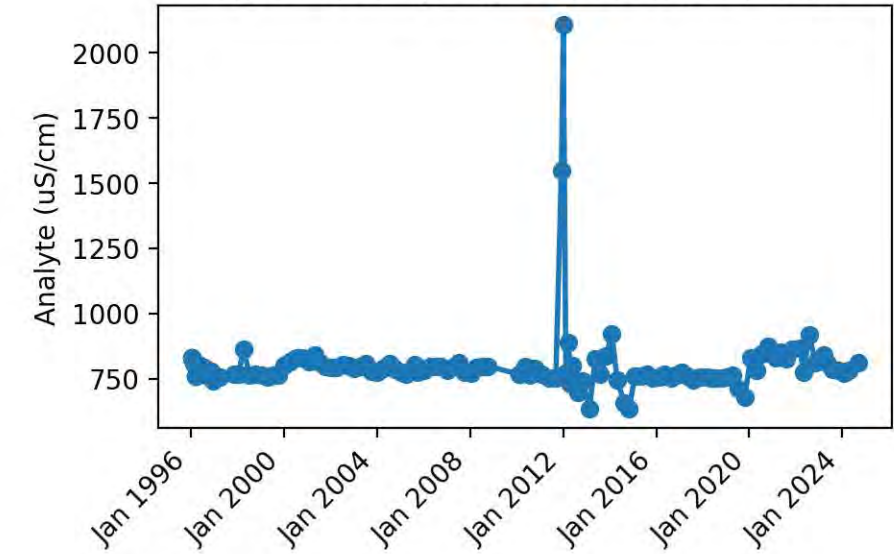


Figure 32d. Magnesium

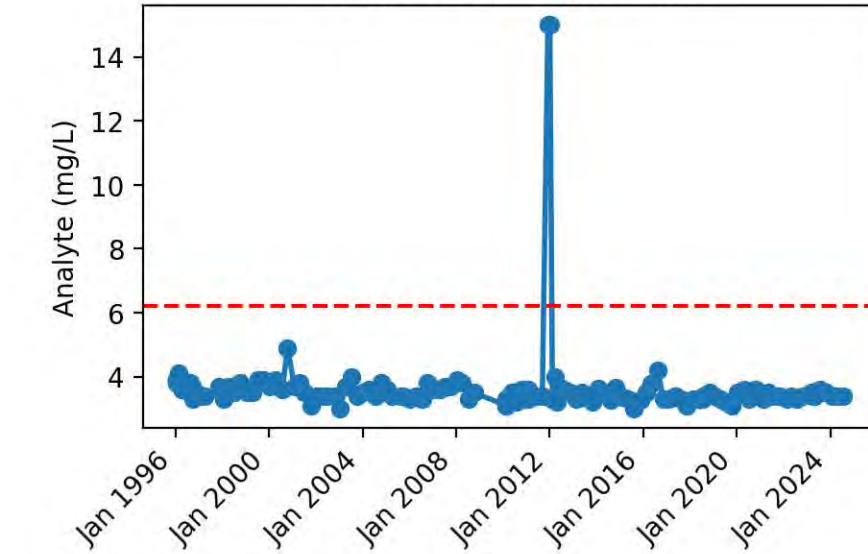


Figure 32e. Sulfate

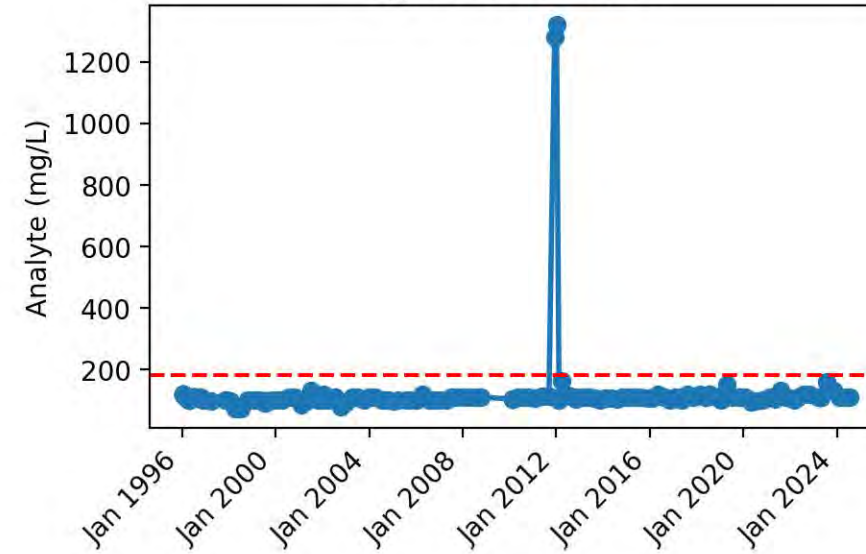


Figure 32f. Fluoride

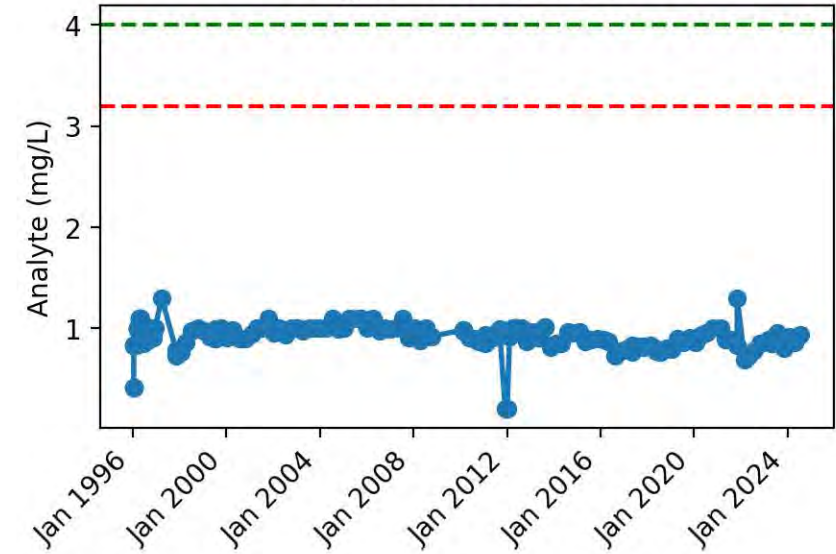
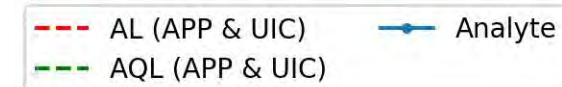
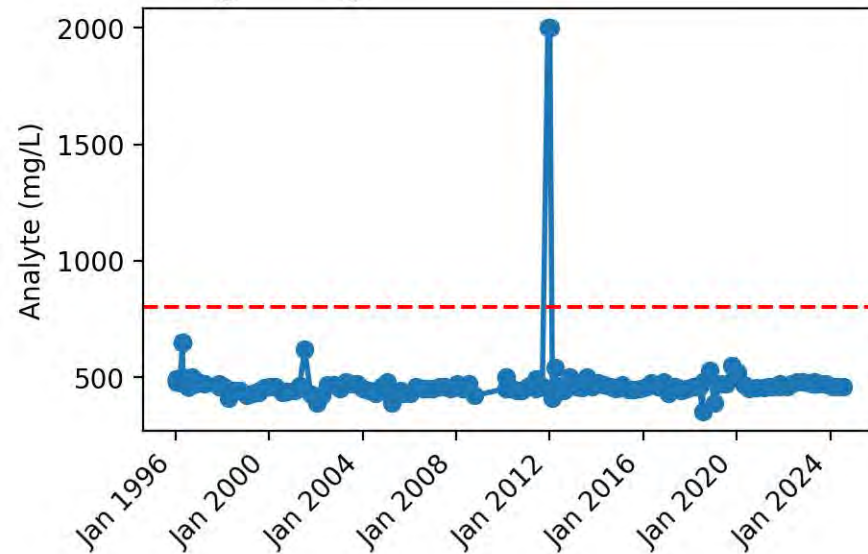


Figure 32g. Total Dissolved Solids (TDS)



Notes:

AL = Alert Level

AQL = Aquifer Quality Limit

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

Displayed ALs and AQLs represent the current reporting period

Water Level Elevation

Figure 33a. M14-GL

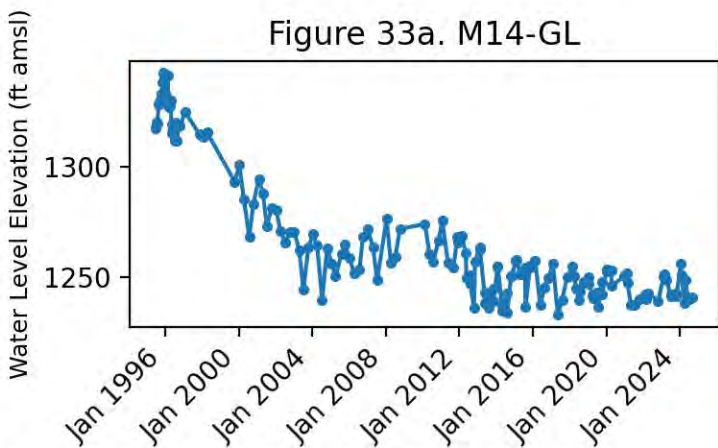


Figure 33b. M15-GU

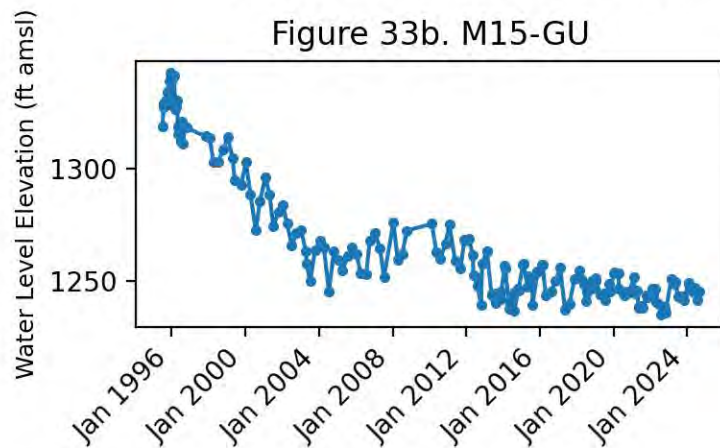


Figure 33c. M16-GU(R)

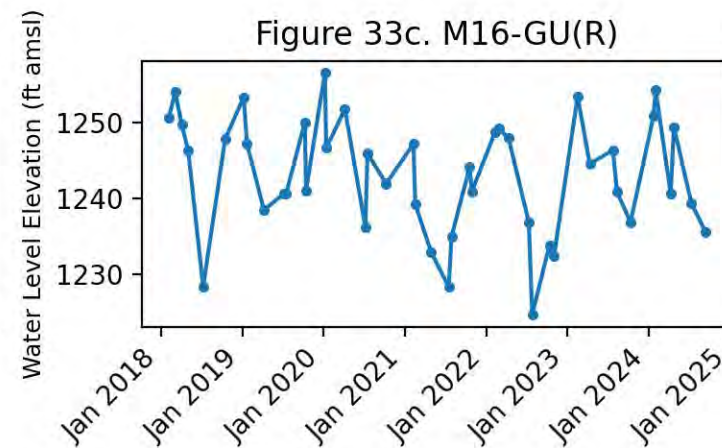


Figure 33d. M17-GL

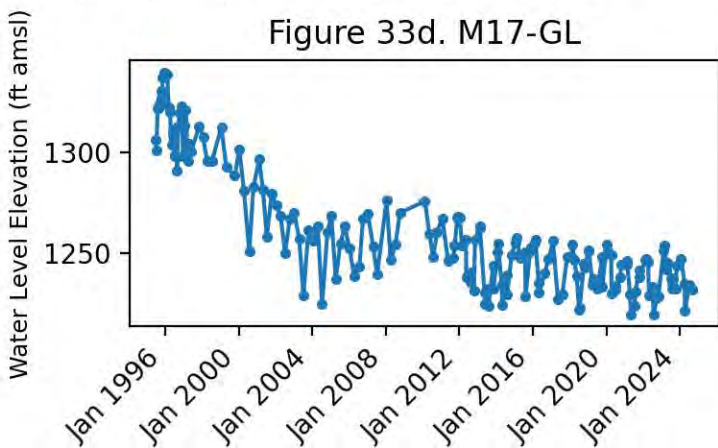


Figure 33e. M18-GU

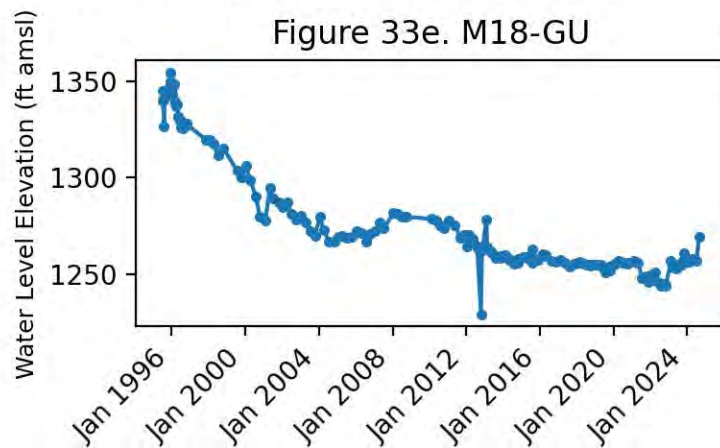


Figure 33f. M19-LBF

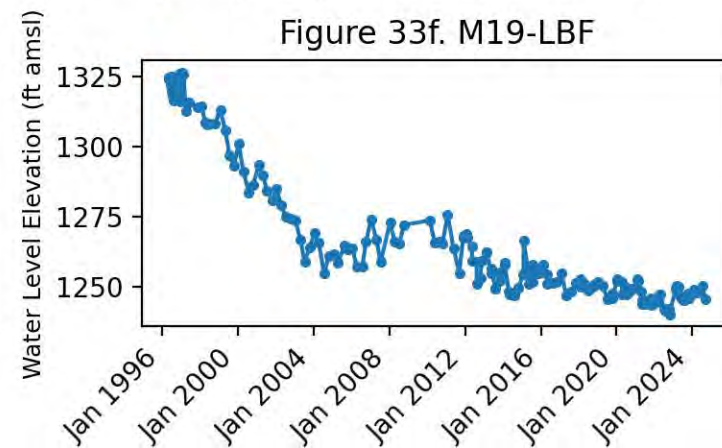


Figure 33g. M1-GL

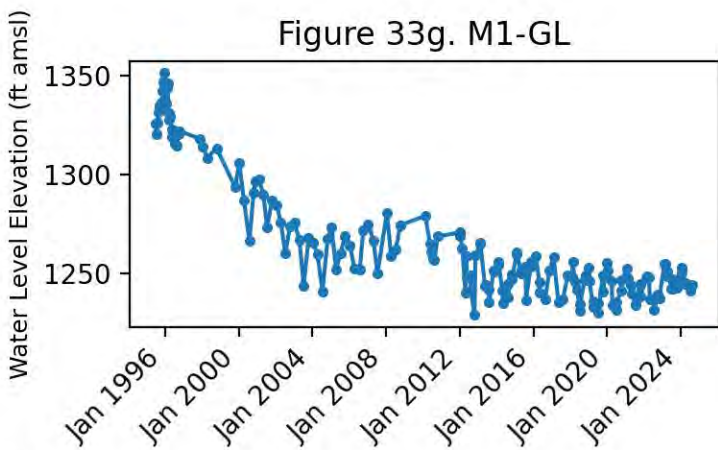


Figure 33h. M20-O(R)

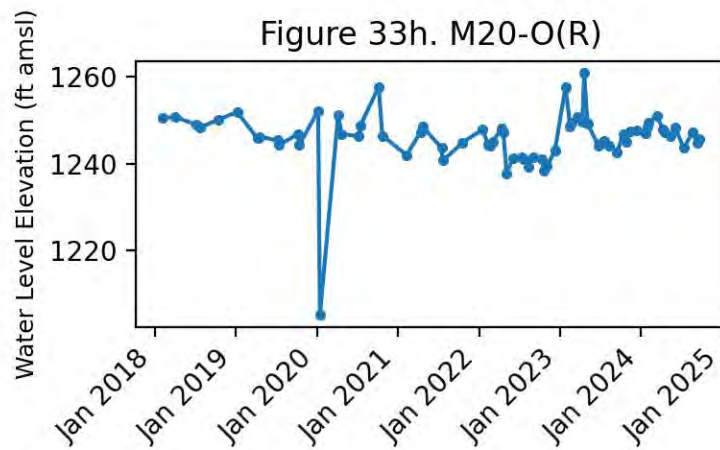


Figure 33i. M21-UBF

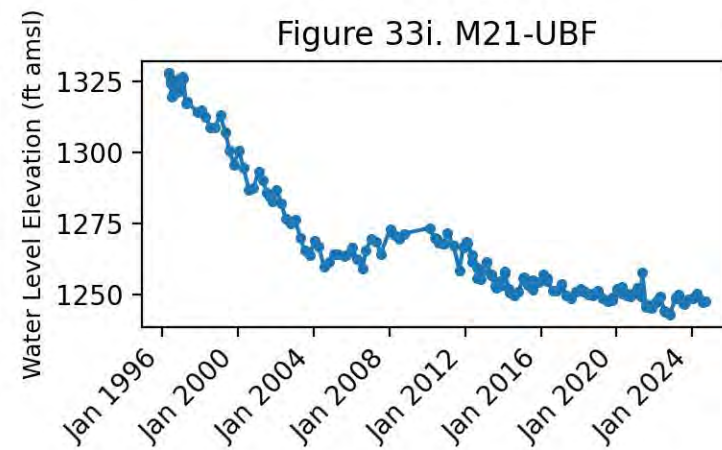


Figure 33j. M22-O

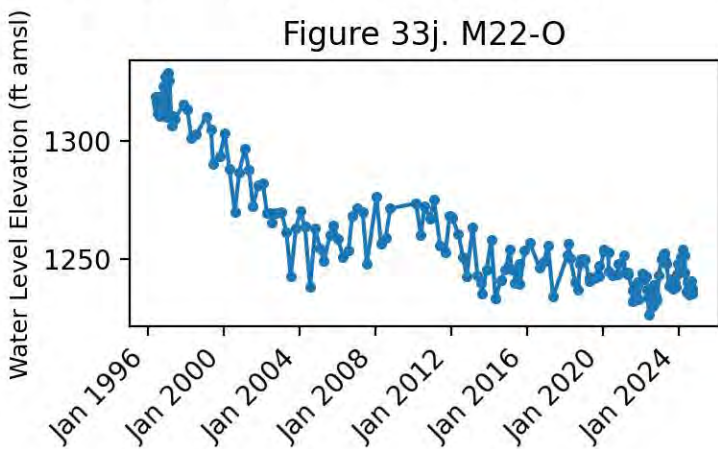
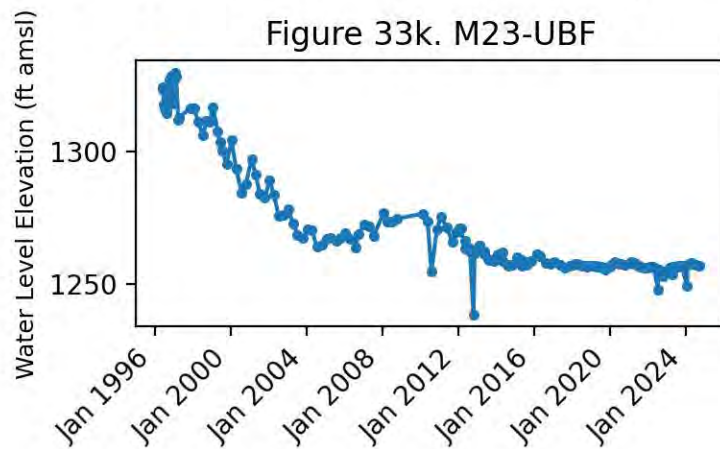


Figure 33k. M23-UBF



Notes:
amsl = above mean sea level

Water Level Elevation

Figure 33l. M24-O

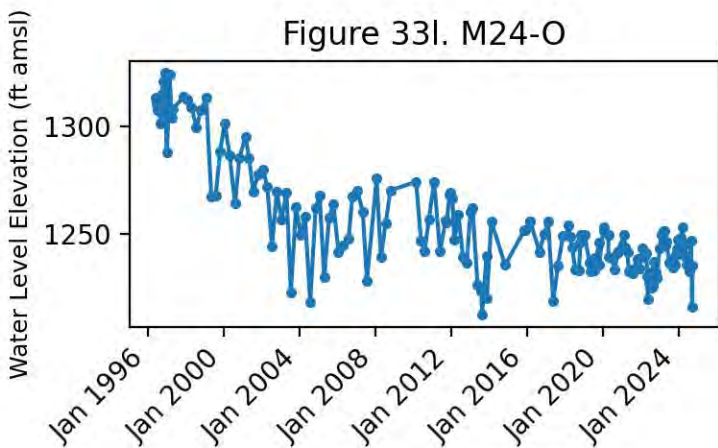


Figure 33m. M25-UBF

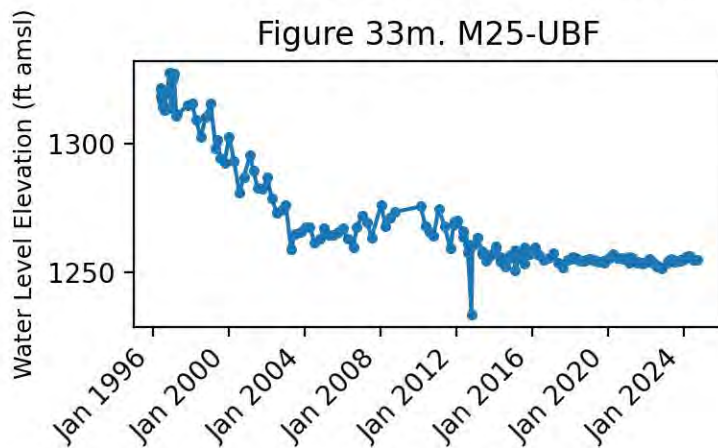


Figure 33n. M26-O

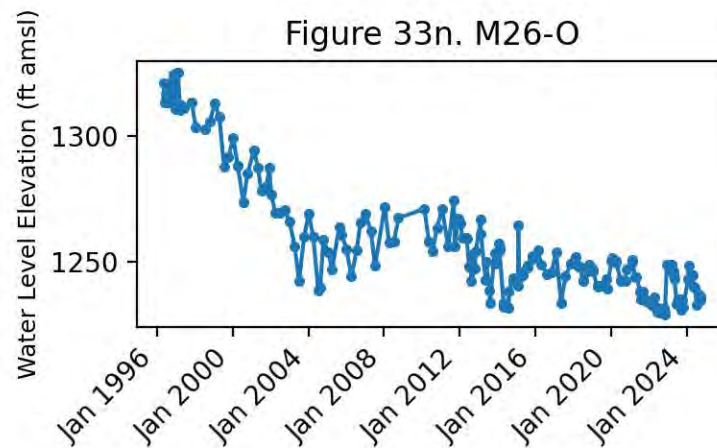


Figure 33o. M27-LBF

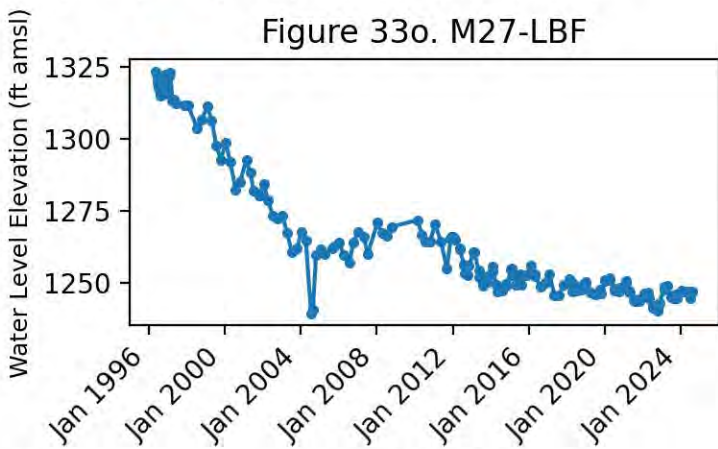


Figure 33p. M28-LBF

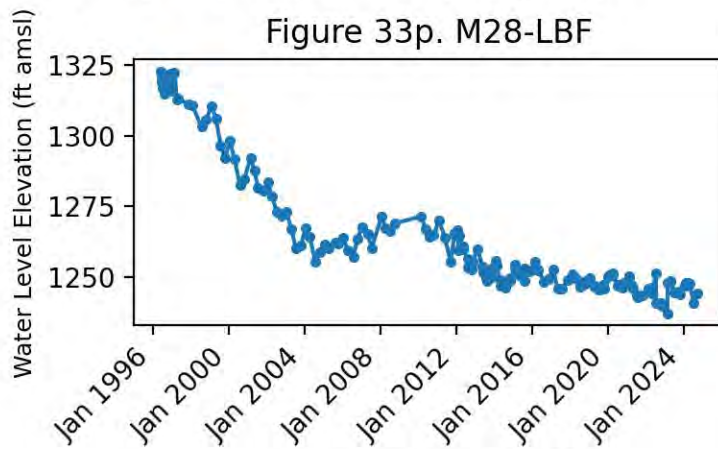


Figure 33q. M29-UBF

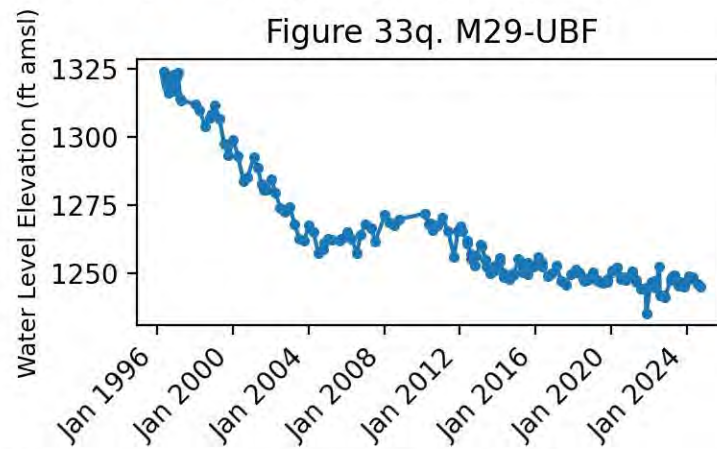


Figure 33r. M2-GU

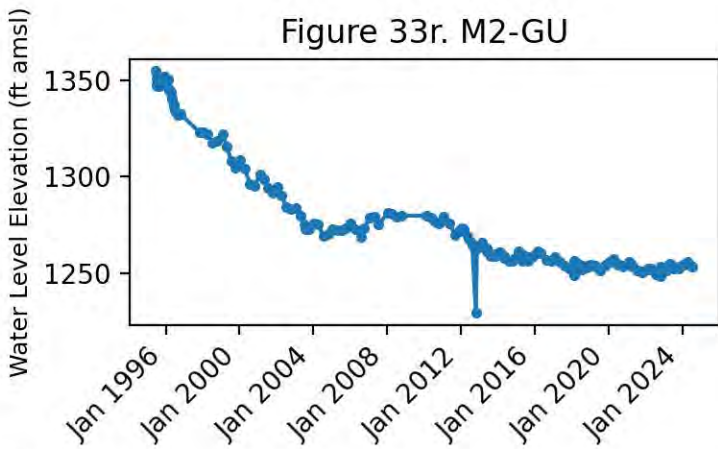


Figure 33s. M30-O

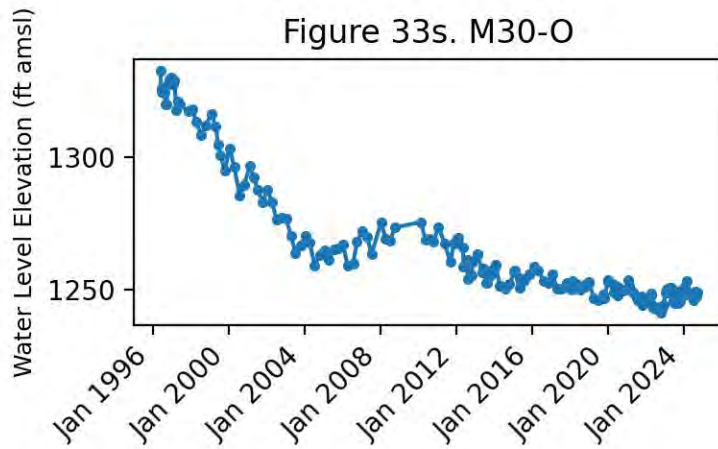


Figure 33t. M31-LBF

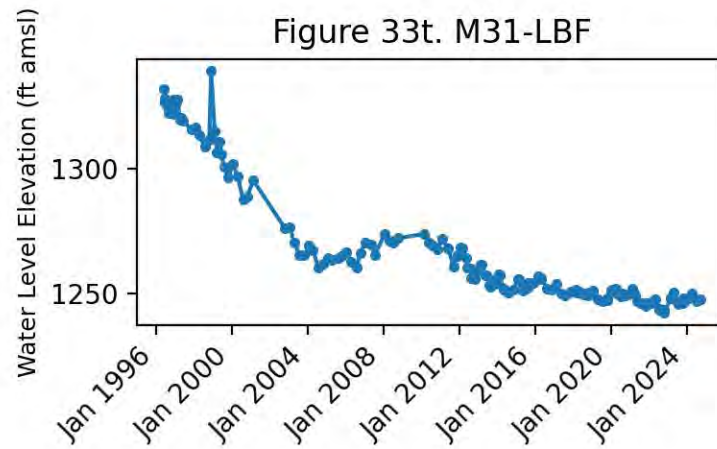


Figure 33u. M3-GL

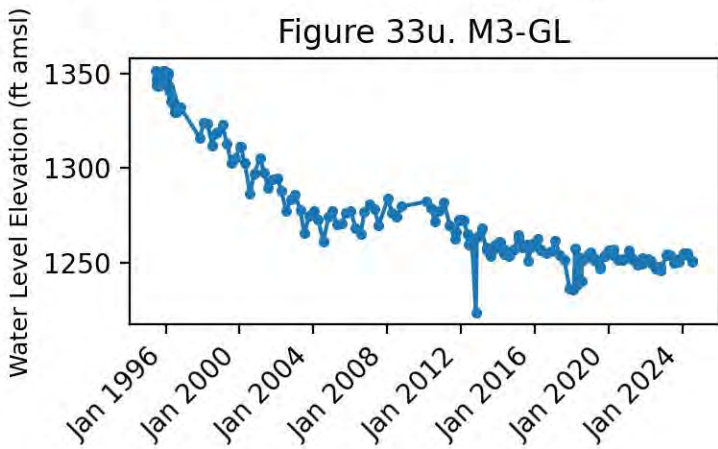
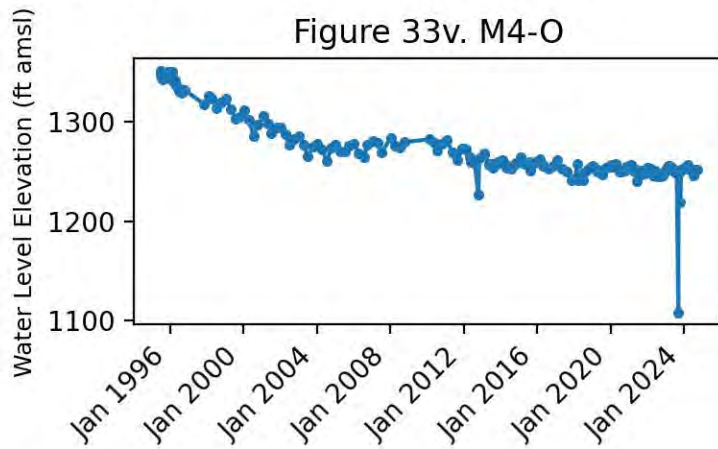


Figure 33v. M4-O



Notes:
amsl = above mean sea level

Water Level Elevation

Figure 33w. M52-UBF

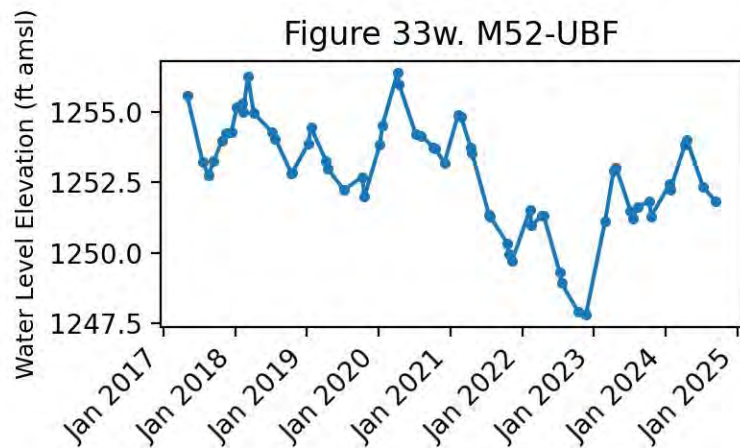


Figure 33x. M54-LBF

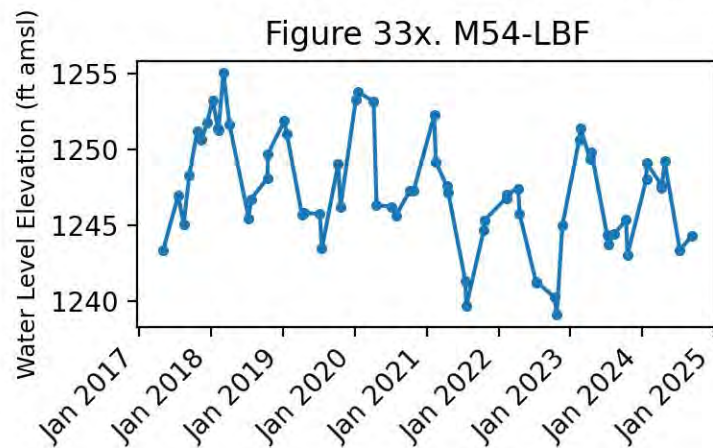


Figure 33y. M54-O

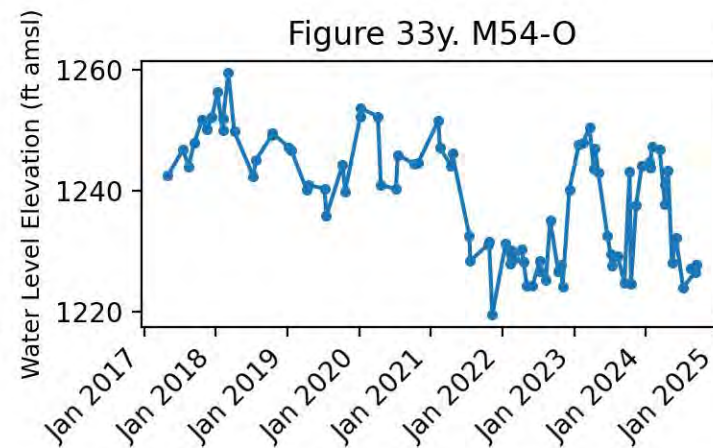


Figure 33z. M6-GU

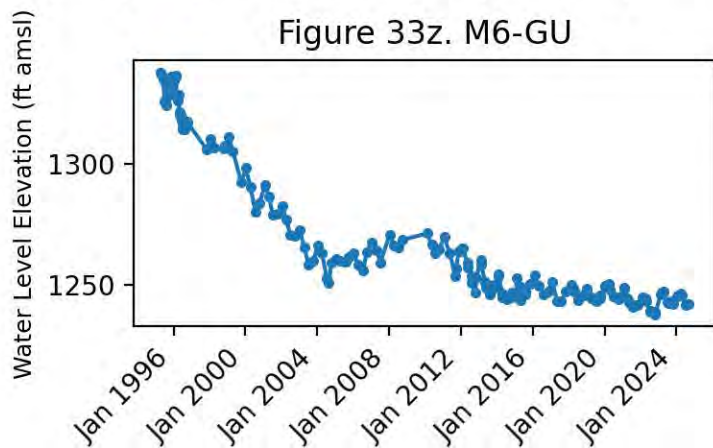


Figure 33aa. M7-GL

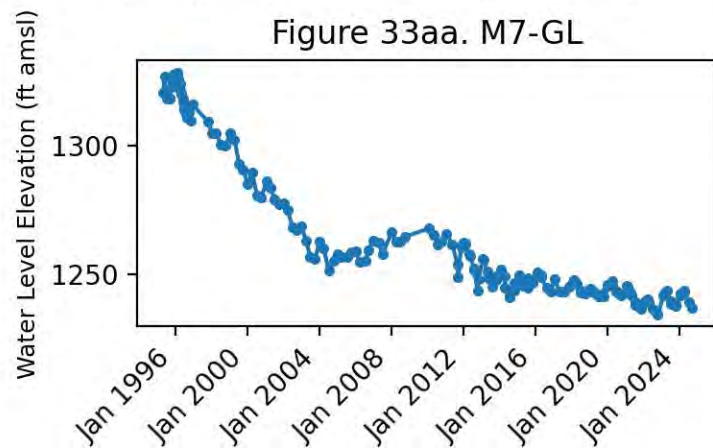


Figure 33ab. M8-O

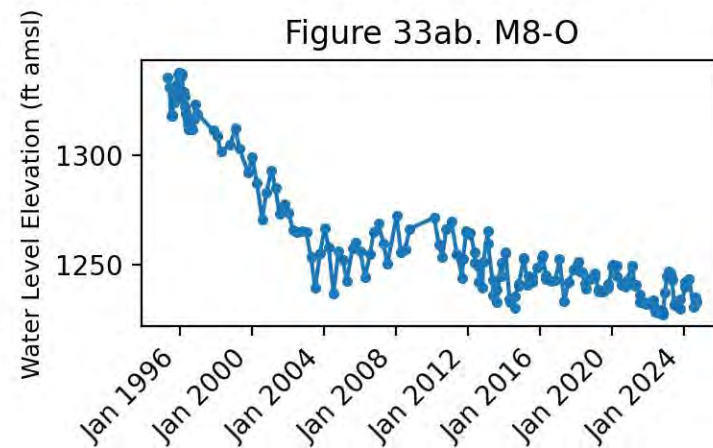


Figure 33ac. O19-GL

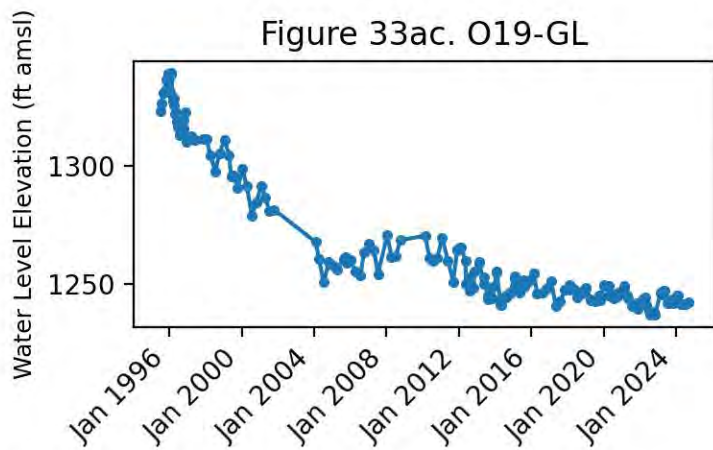


Figure 33ad. O49-GL(R)

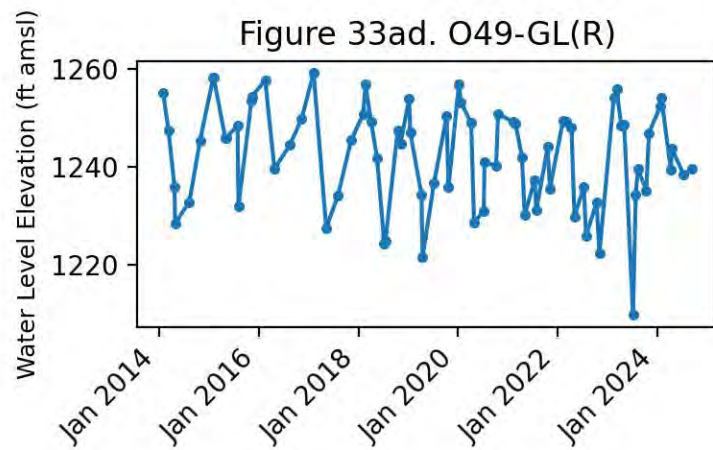


Figure 33ae. P19-1-O

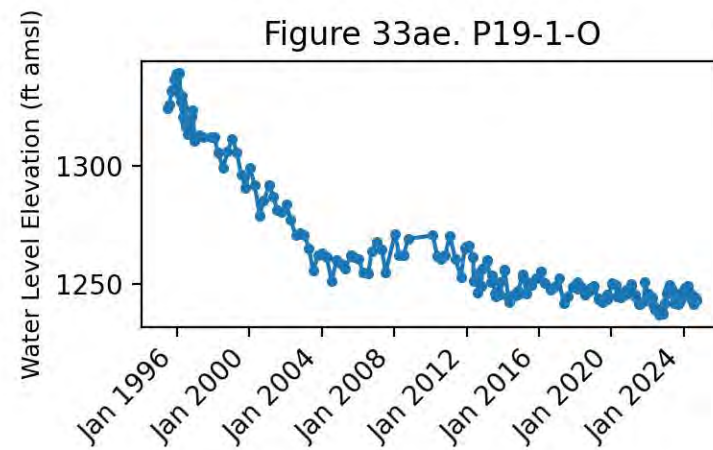
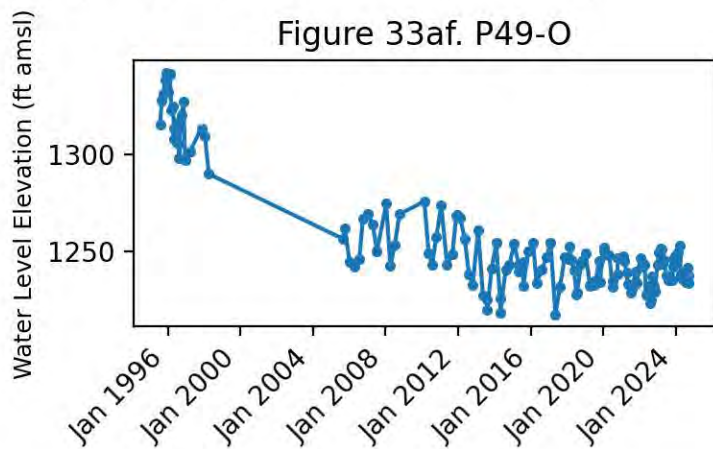


Figure 33af. P49-O



Notes:
amsl = above mean sea level

ATTACHMENT 5B

Well Details and Water Level Elevations

TABLE 1
SUMMARY OF QUARTERLY WATER LEVELS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M1-GL	07/10/2024	220.57	TOC	1461.75	1241.18
M1-GL	08/26/2024	217.77	TOC	1461.75	1243.98
M2-GU	07/10/2024	207.59	TOC	1460.80	1253.21
M2-GU	07/15/2024	207.70	TOC	1460.80	1253.10
M3-GL	07/10/2024	209.65	TOC	1460.74	1251.09
M3-GL	07/15/2024	210.05	TOC	1460.74	1250.69
M4-O	07/10/2024	214.06	TOC	1460.60	1246.54
M4-O	07/15/2024	211.20	TOC	1460.60	1249.40
M4-O	08/13/2024	208.63	TOC	1460.60	1251.97
M4-O	08/19/2024	209.87	TOC	1460.60	1250.73
M4-O	09/17/2024	209.00	TOC	1460.60	1251.60
M6-GU	07/10/2024	240.56	TOC	1482.45	1241.89
M6-GU	09/12/2024	240.10	TOC	1482.45	1242.35
M7-GL	07/10/2024	241.80	TOC	1481.22	1239.42
M7-GL	09/12/2024	244.32	TOC	1481.22	1236.90
M8-O	07/10/2024	249.80	TOC	1480.46	1230.66
M8-O	08/19/2024	245.48	TOC	1480.46	1234.98
M8-O	09/12/2024	247.40	TOC	1480.46	1233.06
M8-O	9/17/2024	247.97	TOC	1480.46	1232.49
M14-GL	07/10/2024	237.24	TOC	1477.12	1239.88
M14-GL	09/10/2024	236.31	TOC	1477.12	1240.81
M15-GU	07/10/2024	234.94	TOC	1476.53	1241.59
M15-GU	08/19/2024	231.10	TOC	1476.53	1245.43
M16-GU(R)	07/10/2024	229.22	TOC	1468.57	1239.35
M16-GU(R)	09/11/2024	232.98	TOC	1468.57	1235.59
M17-GL	07/10/2024	231.85	TOM	1466.16	1234.31
M17-GL	09/10/2024	234.40	TOM	1466.16	1231.76
M18-GU	07/10/2024	205.45	TOC	1462.40	1256.95
M18-GU	08/23/2024	193.00	TOC	1462.40	1269.40
M19-LBF	07/10/2024	239.72	TOM	1490.05	1250.33
M19-LBF	09/11/2024	244.58	TOM	1490.05	1245.47
M20-O(R)	07/10/2024	246.85	TOM	1490.42	1243.57
M20-O(R)	08/19/2024	243.30	TOM	1490.42	1247.12
M20-O(R)	09/11/2024	245.61	TOM	1490.42	1244.81
M20-O(R)	09/17/2024	244.74	TOM	1490.42	1245.68
M21-UBF	07/10/2024	242.17	TOM	1489.52	1247.35
M21-UBF	09/11/2024	241.90	TOM	1489.52	1247.62
M22-O	07/10/2024	243.70	TOM	1478.58	1234.88
M22-O	08/19/2024	238.05	TOM	1478.58	1240.53
M22-O	09/11/2024	243.21	TOM	1478.58	1235.37
M22-O	09/17/2024	241.35	TOM	1478.58	1237.23
M23-UBF	07/10/2024	220.34	TOM	1477.61	1257.27
M23-UBF	09/09/2024	220.64	TOM	1477.61	1256.97
M24-O	07/10/2024	236.91	TOM	1469.29	1232.38
M24-O	08/19/2024	222.60	TOM	1469.29	1246.69
M24-O	09/09/2024	253.31	TOM	1469.29	1215.98
M24-O	09/17/2024	233.98	TOM	1469.29	1235.31
M25-UBF	07/10/2024	214.30	TOM	1469.27	1254.97
M25-UBF	09/09/2024	214.44	TOM	1469.27	1254.83
M26-O	07/10/2024	255.32	TOM	1488.41	1233.09
M26-O	08/19/2024	251.10	TOM	1488.41	1237.31

TABLE 1
SUMMARY OF QUARTERLY WATER LEVELS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M26-O	09/10/2024	251.72	TOM	1488.41	1236.69
M26-O	09/17/2024	253.20	TOM	1488.41	1235.21
M27-LBF	07/10/2024	244.40	TOM	1488.85	1244.45
M27-LBF	08/19/2024	243.02	TOM	1488.85	1247.03
M28-LBF	07/10/2024	248.60	TOM	1489.45	1240.85
M28-LBF	09/11/2024	245.42	TOM	1489.45	1244.03
M29-UBF	07/10/2024	243.33	TOM	1489.49	1246.16
M29-UBF	09/10/2024	244.44	TOM	1489.49	1245.05
M30-O	07/10/2024	240.15	TOM	1486.36	1246.21
M30-O	08/19/2024	236.90	TOM	1486.36	1249.46
M30-O	09/13/2024	238.80	TOM	1486.36	1247.56
M30-O	09/17/2024	237.43	TOM	1486.36	1248.93
M31-LBF	07/10/2024	238.90	TOM	1485.93	1247.03
M31-LBF	09/13/2024	238.20	TOM	1485.93	1247.73
M52-UBF	07/10/2024	232.71	TOC	1485.04	1252.33
M52-UBF	09/13/2024	233.22	TOC	1485.04	1251.82
M54-LBF	07/10/2024	238.54	TOC	1481.92	1243.38
M54-LBF	09/09/2024	237.62	TOC	1481.92	1244.30
M54-O	07/10/2024	258.54	TOC	1482.47	1223.93
M54-O	08/19/2024	255.43	TOC	1482.47	1227.04
M54-O	09/09/2024	255.97	TOC	1482.47	1226.50
M54-O	09/17/2024	254.81	TOC	1482.47	1227.66
O19-GL	07/10/2024	241.85	TOM	1483.28	1241.43
O19-GL	09/12/2024	240.97	TOM	1483.28	1242.31
O49-GL(R)	07/10/2024	227.33	TOM	1465.83	1238.50
O49-GL(R)	09/09/2024	226.31	TOM	1465.83	1239.52
P19-1-O	07/10/2024	243.00	TOM	1484.72	1241.72
P19-1-O	08/19/2024	240.33	TOM	1484.72	1244.39
P19-1-O	09/13/2024	241.55	TOM	1484.72	1243.17
P19-1-O	09/17/2024	241.41	TOM	1484.72	1243.31
P49-O	07/10/2024	229.11	TOM	1463.12	1234.01
P49-O	08/19/2024	221.77	TOM	1463.12	1241.35
P49-O	09/12/2024	229.30	TOM	1463.12	1233.82
P49-O	09/17/2024	225.78	TOM	1463.12	1237.34
Status of Local Production Wells					
BIA-9R	7/10/2024	Not pumping			
BIA-10	7/10/2024	Not pumping			
PW2-1	7/10/2024	Pumping			
WW-4	7/10/2024	Pumping			

Notes:

All wells are permitted under both the APP and UIC Permit with the exception of M52-UBF, which is only permitted under the APP.

amsl = above mean sea level

NM = not measured

TOC = top of casing

TOM = top of monument

ATTACHMENT 5C

Groundwater Monitoring Summary

TECHNICAL MEMORANDUM

24 October 2024
File No. 133887-019

TO: Florence Copper LLC
Mark Severson, P.E., Environmental Manager
Mikel Smothermon, MS, RA, Senior Environmental Coordinator

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G., Project Manager
Mark Nicholls, R.G., Lead Hydrogeologist

SUBJECT: Florence Copper Project, Quarterly Compliance Monitoring Report
Aquifer Protection Permit (APP) and Underground Injection Control (UIC) Permit,
Third Quarter 2024



Haley & Aldrich, Inc. has prepared this memorandum to convey the results of the quarterly compliance groundwater monitoring conducted during the third quarter (Q3) 2024 at the Florence Copper Project. The Florence Copper Project is subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

APP Covering all Present and Future In Situ Copper Recovery Operations:

- ADEQ APP No. P-101704 (LTF 102081) dated 27 June 2024.

UIC Permit Covering all Present and Future In Situ Copper Recovery Operations:

- USEPA UIC Permit No. R9UIC-AZ3-FY19-1 dated 9 July 2024.

This report conveys the results of the Q3 2024 groundwater monitoring activities required by the APP and UIC Permit.

SAMPLING ACTIVITIES

During Q3 2024, monitoring was conducted at 32 point of compliance (POC) wells. All wells are incorporated in both the APP and UIC Permit with the exception of M52-UBF, which is only listed in the APP. Water levels were measured on 10 July 2024, and quarterly groundwater sampling was conducted between 15 July and 13 September 2024. Groundwater sampling and analysis was conducted in accordance with the requirements of Section 2.5.3 of APP and Section II.F of the UIC Permit.

The majority of the monitoring wells are equipped with dedicated low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the APP and Section II.F of the UIC Permit. Wells M4-O, M14-GL, M16-GU(R), M17-GL, M18-GU, M20-O(R), M22-O, M24-O, O49-GL(R), and P49-O are equipped with dedicated stainless steel electric submersible pumps. These wells were sampled by purging a minimum of three borehole volumes, except for well M20-O(R), which was purged dry for two consecutive days and allowed to recharge prior to sampling. No other modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, maintained at 4 degrees Celsius ($^{\circ}\text{C}$) $\pm$ 2 $^{\circ}\text{C}$, and transported under chain of custody to Turner Laboratories, Inc. (Turner) for analysis. Samples were analyzed for the quarterly (Level 1) monitoring parameters listed in Section 4.0, Table 13 of the APP and Table 1 of the UIC Permit.

Monthly monitoring of well M18-GU was continued during Q3 2024 due to a previous APP alert level (AL) exceedance, as discussed further below. Well M18-GU is an upgradient POC well, and the observed exceedance was not the result of mineral production operations.

RESULTS

The results of the Q3 2024 monitoring event are presented in Tables 1 and 2 as follows:

- Table 1 – Q3 2024 Field Parameters;¹ and
- Table 2 – Q3 2024 Quarterly (Level 1) Analytical Parameters

The Q3 2024 results were compared to the ALs and aquifer quality limits (AQL) listed in the applicable tables in Section 4.0 of the APP and Appendix J of the UIC Permit.

No AQL exceedances occurred during Q3 2024. An AL exceedance of sulfate at POC well M15-GU occurred during Q3 2024 and is discussed below. A quality assurance/quality control summary of the Q3 2024 data is provided in Appendix A.

CONTINGENCY SAMPLING PLANS

Contingency sampling plan procedures consistent with Section 2.6.2.5 of the APP and Section II.H.2 of the UIC Permit were implemented during Q3 2024.

Point of Compliance Well M4-O

On 12 August 2024, Florence Copper was notified of a potential AL exceedance of total dissolved solids (TDS) in well M4-O from the sample collected on 15 July 2024. The TDS concentration was reported at 2,400 milligrams per liter (mg/L), above the AL of 1,072 mg/L. In accordance with APP Section 2.6.2.5.1. and UIC Section II.H.2.a, a verification sample was collected on 13 August 2024.

¹ Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the APP or UIC Permit and therefore is not reported.

On 5 September 2024, Florence Copper was notified that the concentration of TDS was reported at 450 mg/L, below the AL. Therefore, the exceedance was dismissed and no further action is necessary.

Point of Compliance Well M15-GU

On 15 August 2024, Florence Copper was notified of a potential AL exceedance of sulfate in well M15-GU from the sample collected on 15 July 2024. The sulfate concentration was reported at 130 mg/L, above the AL of 126 mg/L. Laboratory reanalysis confirmed the sample result. In accordance with APP Section 2.6.2.5.1. and UIC Section II.H.2.a, a verification sample was collected on 19 August 2024.

On 12 September 2024, Florence Copper was notified that the concentration of sulfate was reported at 130 mg/L, above the AL. The result confirmed the previous exceedance. Florence Copper submitted an initial notification to USEPA and ADEQ on 17 September 2024 and a summary of their investigation on 22 September 2024. Monthly sampling at M15-GU is scheduled to begin in fourth quarter (Q4) 2024.

Point of Compliance Well M18-GU

Well M18-GU had a confirmed magnesium AL exceedance in Q2 2023. In accordance with Section 2.6.2.5.1 of the APP, Florence Copper initiated monthly sampling of quarterly compliance monitoring parameters during Q2 2023. During Q3 2024, sample collection was attempted on 15 July, 19 August, and 12 September 2024. During all three attempts, the well ran dry, and collection of a sample was not feasible because the well did not produce sufficient water. Florence Copper reported the well as dry on a monthly basis to ADEQ via email because Incident ID INC15812 has been closed on myDEQ.

Point of Compliance Well M27-LBF

On 15 August 2024, Florence Copper was notified of a potential AL exceedance of sulfate in well M27-LBF from the sample collected on 22 July 2024. The sulfate concentration was reported at 180 mg/L, above the AL of 179 mg/L. Laboratory reanalysis confirmed the sample result. In accordance with APP Section 2.6.2.5.1. and UIC Section II.H.2.a, a verification sample was collected on 19 August 2024.

On 12 September 2024, Florence Copper was notified that the concentration of sulfate was reported at 170 mg/L, below the AL. Therefore, the exceedance was dismissed and no further action is necessary.

Attachments:

Table 1 – Q3 2024 Field Parameters

Table 2 – Q3 2024 Quarterly (Level 1) Analytical Parameters

Appendix A – Data Quality Assurance/Quality Control Summary

TABLES

TABLE 1
Q3 2024 FIELD PARAMETERS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	Specific Conductance, Field µmhos/cm
M1-GL	07/15/2024	25.4	77.7	7.32	1,084
M2-GU	07/15/2024	24.5	76.1	7.16	1,728
M3-GL	07/15/2024	23.6	74.5	7.12	1,488
M4-O	07/15/2024	23.1	73.6	7.20	688
M4-O ⁽¹⁾	08/13/2024	23.5	74.3	7.32	740
M6-GU*	09/12/2024	26.5	79.7	8.47	717
M7-GL*	09/12/2024	27.6	81.7	9.20	505
M8-O*	09/12/2024	27.0	80.6	9.06	696
M14-GL*	09/10/2024	26.7	80.1	7.92	898
M15-GU	08/19/2024	24.3	75.7	7.45	1,655
M16-GU(R)*	09/11/2024	24.3	75.7	7.49	1,589
M17-GL*	09/10/2024	28.5	83.3	8.44	798
M19-LBF*	09/11/2024	26.8	80.2	7.82	842
M20-O(R)*	09/11/2024	24.2	75.6	7.35	818
M21-UBF*	09/11/2024	26.1	79.0	7.45	1,587
M22-O*	09/11/2024	28.1	82.6	8.52	801
M23-UBF*	09/09/2024	25.4	77.7	7.33	1,920
M24-O*	09/09/2024	29.4	84.9	8.12	1,811
M25-UBF*	09/09/2024	25.5	77.9	7.25	2,449
M26-O*	09/10/2024	25.4	77.7	8.93	535
M27-LBF	08/19/2024	27.1	80.8	7.52	1,796
M28-LBF*	09/11/2024	25.6	78.1	9.01	656
M29-UBF*	09/10/2024	26.7	80.1	7.29	1,727
M30-O*	09/13/2024	25.0	77.0	7.53	898
M31-LBF*	09/13/2024	25.5	77.9	7.44	1,535
M52-UBF*	09/13/2024	26.4	79.5	7.41	1,551
M54-LBF*	09/09/2024	26.7	80.1	7.36	1,623
M54-O*	09/09/2024	29.1	84.4	7.98	753
O19-GL*	09/12/2024	30.7	87.3	7.76	853
O49-GL(R)*	09/09/2024	26.7	80.1	7.73	1,303
P19-1-O*	09/13/2024	25.8	78.4	7.44	775
P49-O*	09/12/2024	28.2	82.8	7.64	811

Notes:

Field parameter data were collected prior to sample collection and were observed to be stable prior to sample collection. Field parameter data were recorded using an electronic data reporting application named QNOPY. However, the data application failed to upload to the cloud and the field parameter data were lost for 25 wells. The data reported in this Table with an asterisk were collected at a later date to replace the lost data and to support future trend analyses. The data marked with an asterisk are consistent with previous field parameter data and are representative of the lost data, although collected at a later date.

(1) Verification sample was collected on 8/13/2024.

All wells are permitted under both the APP and UIC Permit with the exception of M52-UBF, which is only permitted under the APP.

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

µmhos/cm = micromhos per centimeter

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

TABLE 2
Q3 2024 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved		Sulfate		Fluoride			Total Dissolved Solids (TDS)	
			Concentration	Alert Level	Concentration	Alert Level	Concentration	Alert Level	Aquifer Quality Limit	Concentration	Alert Level
M1-GL	07/15/2024	Primary	21	31	130	184.2	0.54	3.2	4.0	680	1028
M2-GU	07/15/2024	Primary	34	39	210	275	0.63	3.2	4.0	1,100	1496
M3-GL	07/15/2024	Primary	30	36	170	187	0.51	3.2	4.0	940	1157
M4-O	07/15/2024	Primary	5.3	15	59	405	2.2	NE	5.1	2,400	1072
M4-O ⁽¹⁾	08/13/2024	Primary	5.2	15	59	405	2.2	NE	5.1	450	1072
M6-GU	07/23/2024	Primary	2.5 J	44	49	86	0.57	3.2	4.0	360	620
M7-GL	07/23/2024	Primary	0.11 J	1	8.2	82	0.76	3.2	4.0	270	464
M7-GL	07/23/2024	Duplicate	0.12 J	1	8.4	82	0.75	3.2	4.0	260	464
M8-O	07/23/2024	Primary	0.11 J	1	51	122	2.1	3.6	4.0	380	609
M14-GL	07/24/2024	Primary	13	23	52	144	0.45 J	3.2	4.0	490	874
M15-GU	07/18/2024	Primary	35	44	130	126	0.42 J	3.2	4.0	920	1359
M15-GU ⁽²⁾	08/19/2024	Primary	34	44	130	126	0.57	3.2	4.0	930	1359
M16-GU(R)	07/25/2024	Primary	32	52	180	248	0.45 J	3.2	4.0	940	1635
M17-GL	07/16/2024	Primary	5.8	9.3	94	209	0.58	3.2	4.0	460	831
M19-LBF	07/17/2024	Primary	12	21	41	89	0.33 J	3.2	4.0	450	794
M20-O(R)	07/18/2024	Primary	9.3	14	61	112	0.77	3.2	4.0	490	809
M21-UBF	07/17/2024	Primary	28	87	170	487	0.64	3.2	4.0	890	2867
M22-O	07/18/2024	Primary	6.9	8.6	50	86	0.61	3.2	4.0	420	1094
M23-UBF	07/18/2024	Primary	31	69	220	411	0.70	3.2	4.0	1,100	2392
M24-O	07/25/2024	Primary	10	19	660	1364	0.97	3.2	4.0	1,200	2363
M25-UBF	07/25/2024	Primary	48	76	240	387	0.57	3.2	4.0	1,400	2683
M25-UBF	07/25/2024	Duplicate	46	76	250	387	0.53	3.2	4.0	1,400	2683
M26-O	07/22/2024	Primary	0.17 J	1	52	105	1.2	3.4	4.0	310	556
M27-LBF	07/22/2024	Primary	35	51	180	179	0.32 J	3.2	4.0	1,100	1745
M27-LBF ⁽²⁾	08/19/2024	Primary	36	51	170	179	0.43 J	3.2	4.0	1,000	1745
M28-LBF	07/22/2024	Primary	1.1 J	2.6	8.0	81	0.64	3.2	4.0	330	610
M29-UBF	07/22/2024	Primary	31	84	190	456	0.67	3.2	4.0	1,000	2751
M30-O	07/16/2024	Primary	13	18	55	102	0.59	3.2	4.0	520	824
M31-LBF	07/16/2024	Primary	25	NE	160	330	0.68	3.2	4.0	880	NE
M31-LBF	07/16/2024	Duplicate	25	NE	160	330	0.66	3.2	4.0	880	NE
M52-UBF	07/16/2024	Primary	27	45	160	351	0.66	3.2	4.0	900	1666
M54-LBF	07/17/2024	Primary	26	46	170	329	0.59	3.2	4.0	930	1731
M54-O	07/17/2024	Primary	6.3	11	47	200	0.68	3.2	4.0	420	855
O19-GL	07/29/2024	Primary	12	17	50	99	0.55	3.2	4.0	480	770
O49-GL(R)	07/29/2024	Primary	16	18	110	181	0.37 J	3.2	4.0	750	801
P19-1-O	07/29/2024	Primary	5.6	23	57	144	1.5	3.2	4.0	450	874
P49-O	07/23/2024	Primary	3.4	18	110	181	0.93	3.2	4.0	460	849
Arizona Aquifer Water Quality Standard ⁽⁴⁾			--		--		4.0			--	

Notes:

(1) Verification sample was collected on 8/13/2024.

(2) Verification sample was collected on 8/19/2024.

(4) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, December 31, 2016.

All wells are permitted under both the APP and UIC Permit with the exception of M52-UBF, which is only permitted under the APP.

Alert Level Exceeded

All results in milligrams per liter (mg/L).

Detects are **bolded**.

Non-detects are reported to the laboratory method detection limit (< MDL).

J = estimated value

APP = Aquifer Protection Permit No. P-101704

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY19-1

APPENDIX A
Data Quality Assurance/Quality
Control Summary Memorandum



HALEY & ALDRICH, INC.
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MEMORANDUM

28 October 2024
File No. 133887-019

TO: Haley & Aldrich, Inc.
Laura Menken R.G.

FROM: Haley & Aldrich, Inc.
Alexis Rainery, Project Engineer
Hannah Cherry, Staff Scientist

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the third quarter 2024 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency (USEPA; 2012).¹ For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness with the chain of custody (COC);
- Comparison of reporting limits to alert levels (ALs) and aquifer quality limits (AQLs);
- Holding times/preservation;
- Blank sample analysis;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data were qualified by the laboratory in accordance with laboratory standard operating procedures (SOPs). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel with the following exceptions:

- For laboratory reports 24G0509 and 24G0597, the laboratory did not document the presence of a custody seal.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol.

BLANK SAMPLE ANALYSIS

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample, matrix spike, and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPDs) within the specified limits with the following exception:

Laboratory Report	Associated Sample ID(s)	Sample Type	Method	Batch ID	Analyte	%R, RPD	Acceptable %R, RPD
24G0458	M30-O-071624	MS/MSD	USEPA 300.0	2407186	Sulfate	124%	80-120%
Notes: % = percent %R = percent recovery MS = matrix spike MSD = matrix spike duplicate RPD = relative percent difference USEPA = U.S. Environmental Protection Agency							

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The samples collected for field duplicate analysis and the RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

Primary Sample ID	Duplicate Sample ID	Methods for Which Field Duplicates Were Analyzed
M31-LBF-071624	M131-LBF-071624	Anions by USEPA 300.0 Total Dissolved Solids by SM 2540C Metals by USEPA 200.7
M7-GL-072324	M007-GL-072324	
M25-UBF-072524	M025-UBF-072524	
Notes: SM = Standard Method USEPA = U.S. Environmental Protection Agency		

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory were verified against the electronic data deliverables.

G:\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\3Q 2024 Reports\3Q 2024 APP Report\Attachments\APP 10A UIC 5C - Quarterly Compliance Monitoring Report\Appendix A APP QA_QC Summary Q3_2024_D2.docx

ATTACHMENT 6

Results of Monthly Lixiviant Organic Analysis

TABLE 1
MONTHLY LIXIVANT (RAFFINATE) MONITORING RESULTS
 FLORENCE COPPER, LLC
 FLORENCE, ARIZONA

Analyte	Units	Sample Date		
		7/24/2024	8/13/2024	9/10/2024
Benzene	mg/L	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	mg/L	< 0.0005	< 0.0005	< 0.0005
Naphthalene	mg/L	< 0.002	< 0.002	< 0.002
n-Octane	mg/L	< 0.0005	< 0.0005	< 0.0005
Toluene	mg/L	< 0.0005	< 0.0005	< 0.0005
Xylenes, Total	mg/L	< 0.0015	< 0.0015	< 0.0015
TPH-Diesel	mg/L	< 0.10	< 0.10	< 0.10
Total Organics	mg/L	< 0.10	< 0.10	< 0.10
Maximum Allowable Average Total Organics	mg/L	10	10	10

Notes:

mg/L = milligrams per liter

TPH = total petroleum hydrocarbons

ATTACHMENT 7

Results of Mechanical Integrity Testing

TABLE 1
Q3 2024 MECHANICAL INTEGRITY TESTS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Q3 2024 Mechanical Integrity Tests			
Well ID	Temperature Log Date	Pressure Test Date	Pass (P) Fail (F)
WB-01	7/24/2024	NA	P
WB-02	7/24/2024	NA	P
WB-03	7/24/2024	NA	P
WB-04	7/24/2024	NA	P

Notes:
Temperature log report sent to U.S. Environmental Protection Agency under separate cover.

ATTACHMENT 8

Results of Monthly Treated Water Samples

TABLE 1
Q3 2024 MONTHLY ISCR WELLFIELD WATER ANALYTICAL RESULTS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Monitoring Parameters	Maximum Ambient Water Quality ⁽¹⁾	Analytical Results			
		7/11/2024	8/13/2024	8/21/2024 ⁽²⁾	9/10/2024
Metals					
Aluminum	0.08	< 2.0	< 2.0	-	< 2.0
Antimony	0.0005	< 0.20	< 0.20	-	< 0.20
Arsenic	0.0029	< 0.0400	< 0.0400	-	< 0.0400
Barium	0.11	< 0.050	< 0.050	-	< 0.050
Beryllium	0.0005	< 0.0020	< 0.0020	-	< 0.0020
Cadmium	0.0014	< 0.0020	< 0.0020	-	< 0.0020
Chromium	0.01	< 0.030	< 0.030	-	< 0.030
Cobalt	0.0081	< 0.10	< 0.10	-	< 0.10
Copper	1.9	0.77	0.1	-	0.2
Iron	0.3	< 0.30	< 0.30	-	< 0.30
Lead	0.001	< 0.040	< 0.040	-	< 0.040
Magnesium	30	< 3.0	< 3.0	-	< 3.0
Manganese	0.12	< 0.020	0.03	-	< 0.020
Mercury	0.001	< 0.0010	< 0.0010	-	< 0.0010
Molybdenum	--	0.017	0.03	-	< 0.010
Nickel	0.015	< 0.050	< 0.050	-	< 0.050
Selenium	0.0039	< 0.040	< 0.040	-	< 0.040
Thallium	0.001	< 0.050	< 0.050	-	< 0.050
Uranium	--	< 0.00050	< 0.00050	-	< 0.00050
Zinc	1.9	< 0.040	< 0.040	-	< 0.040
Inorganic Parameters					
Total Alkalinity	220	NA ⁽³⁾	NA ⁽³⁾	-	NA ⁽³⁾
Bicarbonate	220	NA ⁽³⁾	NA ⁽³⁾	-	NA ⁽³⁾
Carbonate	20	NA ⁽³⁾	NA ⁽³⁾	-	NA ⁽³⁾
Hydroxide	2	NA ⁽³⁾	NA ⁽³⁾	-	NA ⁽³⁾
pH (pH Units)	8.7	2.8	3.3	-	3.1
Temperature (°C)	32.4	23	23.0	-	22.0
Conductivity	1800	710	210	-	370
Calcium	140	< 4.0	< 4.0	-	< 4.0
Chloride	340	42	10	-	22
Fluoride	0.89	< 0.50	1.2	-	0.95
Potassium	11	< 5.0	< 5.0	-	< 5.0
Sodium	180	< 5.0	< 5.0	-	< 5.0
TDS	1100	56	< 20	-	< 20
Nitrate (as N)	9.7	2.5	-	0.86	1.6
Nitrite (as N)	0.1	< 0.10	-	< 0.10	< 0.10
Sulfate	230	35	18	-	24
Organic Parameters					
Benzene	0.063	< 0.00050	< 0.00050	-	< 0.00050
Ethylbenzene	0.054	< 0.00050	< 0.00050	-	< 0.00050
Naphthalene	--	< 0.0020	< 0.0020	-	< 0.0020
n-octane	--	< 0.00050	< 0.00050	-	< 0.00050
Toluene	0.057	< 0.00050	< 0.00050	-	< 0.00050
Total Xylene	0.13	< 0.0015	< 0.0015	-	< 0.0015
Total Petroleum Hydrocarbons - Diesel	0.17	0.10	< 0.10	-	< 0.10
Radionuclide Parameters					
Gross Alpha (pCi/L)	2.8	0.7 ± 0.2	< 0.4	-	< 0.5
Uranium Isotopes (total) (pCi/L)	30.2	1.1 ± 0.4	< 0.4	-	< 0.4
Adjusted Gross Alpha (pCi/L)	15.4	< 0.1	< 0.4	-	< 0.5
Gross Beta (pCi/L)	--	2.6 ± 1.0	< 0.2	-	< 2.2
Radium Isotopes 226+228 (pCi/L)	6.2	< 1.0	< 0.8	-	< 0.8
Radon (pCi/L)	--	262.0 ± 38.0	522.0 ± 55.0	-	29.0 ± 16.0

Notes:

- (1) Maximum ambient water quality at the site pre-operation.
(2) Reanalysis of nitrate and nitrite due to exceeded hold time.
(3) Alkalinity analysis was not reported due to matrix interference. Sample pH was less than 4.5.
All results in milligrams per liter (mg/L) unless otherwise noted.
Non-detects are reported to the laboratory reporting limit
Radionuclide data presented as result ± uncertainty
ISCR = in-situ copper recovery
pCi/L = picocuries per liter

ATTACHMENT 9

Results of Annular Conductivity Device Monitoring of Mechanical Integrity



ANNULAR CONDUCTIVITY DATA QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

HGI Project Name: 2018-030 - FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: 102f SUNNY
Date 7/1/2024	Field Operator Name: C. BALDYGA	Start and End Time: 1009 - 1110

EQUIPMENT

AGI MiniSting (MS) Serial #: S0608049	6Ω Resistor Standard	• No. Cycles: 4
HGI Cray Interface Panel SN# CR-ES-002	Result: 6.19	• Max Error: Off
	Pass Criteria: 6.25Ω ± 0.30	• Max Current: 50mA
	Circle One: Pass or Fail	• Measure Time: 3.6
		• Measure mode: RESISTANCE

DATA COLLECTION:

	WELL ID	Time (24h)	Current (I mA)	1			2			3			Data Acceptance Pass = P, Fail = F
				Reading	Resistance (ΔY= Ω)	Error (σ= %)	Reading	Resistance (ΔY= Ω)	Error (σ= %)	Reading	Resistance (ΔY= Ω)	Error (σ= %)	
1	WB-04	1009	20	1	55.76	0.9	2	55.49	1.7	3	55.44	1.7	P/F
2	WB-03	1016	20	4	79.01	0.6	5	77.55	1.5	6	76.98	1.7	P/F
3	WB-02	1018	20	7	77.82	2.0	8	77.74	2.4	9	74.17	2.7	P/F
4	WB-01	1029	20	10	52.69	4.2	11	49.34	1.6	12	47.77	0.8	P/F
5	B-01	1034	20	13	71.62	1.7	14	69.32	6.7	15	68.33	0.3	P/F
6	B-07	1039	20	16	69.01	1.2	17	68.53	1.5	18	68.30	1.6	P/F
7	B-06	1043	20	19	56.15	1.4	20	55.26	0.9	21	54.80	0.8	P/F
8	B-05	1054	20	22	90.90	0.9	23	90.92	1.0	24	90.67	1.1	P/F
9	B-04	1058	20	25	57.36	0.6	26	56.15	0.7	27	55.64	0.9	P/F
10	B-03	1102	20	28	61.63	3.4	29	58.37	1.6	30	56.68	1.0	P/F
11	B-02	1107	20	31	53.23	2.8	32	51.09	0.8	33	50.27	6.4	P/F

Well ID's that begin with a "B" correspond to the wells that begin with an "O" in standard reporting. For example, B-01 corresponds to O-01.

DATA QUALITY ACCEPTANCE

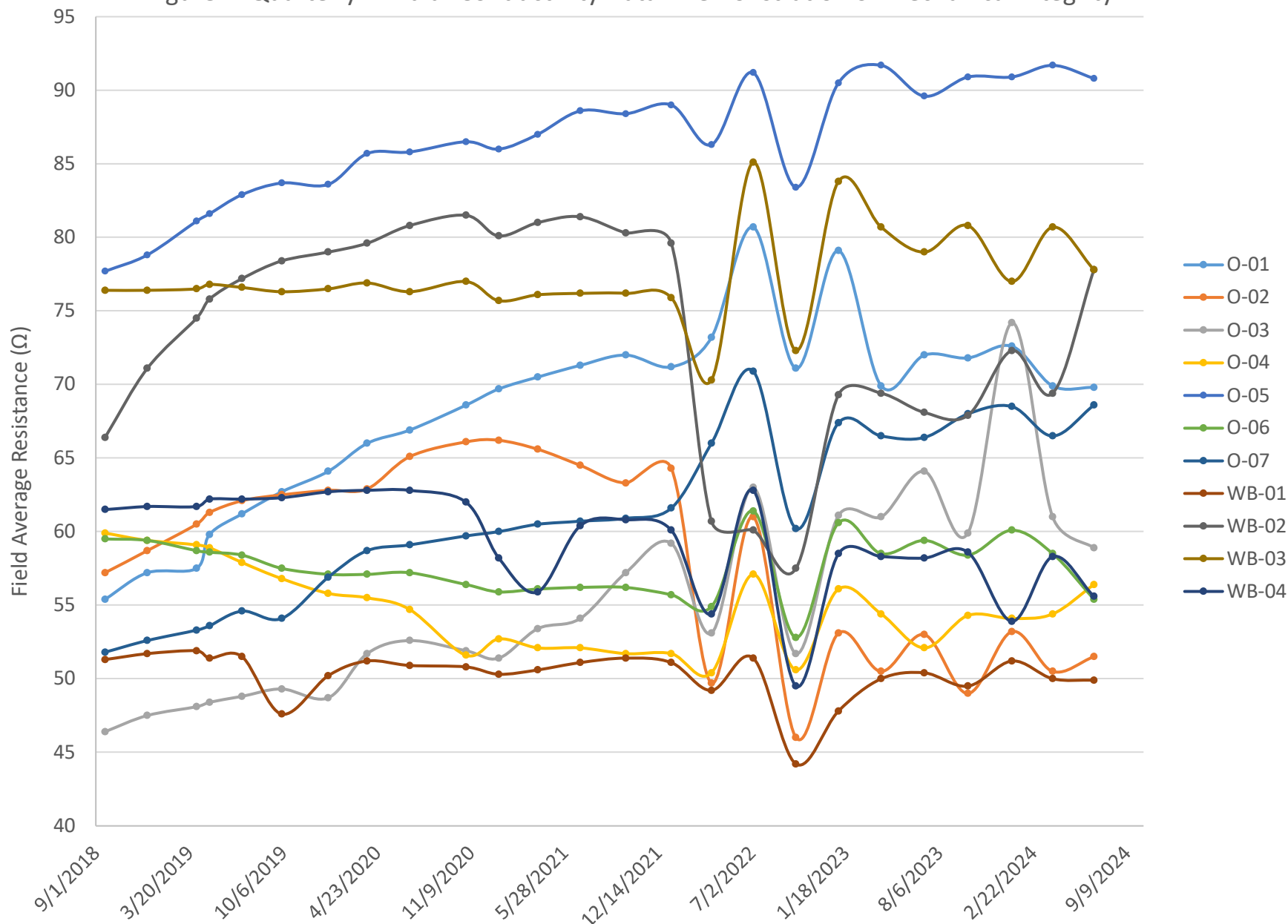
Measurement Error Evaluation Pass Criteria: 66% (2/3) of measurement error values less than 5%	WORK ON B-01 & B-07
--	---------------------

FIELD OBSERVATIONS

SIGNATURES

 7/1/2024 Field Operator Signature/Date	 7/1/2024 Data Inspector Signature/Date
---	---

Figure 1. Quarterly Annular Conductivity Data - Demonstration of Mechanical Integrity



ATTACHMENT 10

Results of Annular Conductivity Device Monitoring of Hydraulic Control and ISCR Fluid Movement

(Placeholder – Not Applicable for this Monitoring Period)

ATTACHMENT 11

Summary of Plugging and Abandonment

Technical Memorandum

Date: October 16, 2024

To: Florence Copper, Inc.
Ian Ream, Hydrogeological Superintendent

From: RGC Hydro Services LLC
Lauren Candreva, R.G.

Subject: Q3 2024 Pre-Production Well and Corehole Abandonments
Florence Copper, Florence, Arizona



This document summarizes the abandonment of coreholes completed during the third quarter (Q3) of 2024 at the Florence Copper site in Florence, Arizona. The drilling and abandonment work was conducted by ACS Services LLC (ACS), a licensed Arizona well driller, and McMillan's Well Service LLC (McMillan) provided blasting services. Oversight of key abandonment activities was conducted by RGC Hydro Services LLC (RGC Hydro).

The site *Underground Injection Control (UIC) Permit (R9UIC-AZ3-FY19-1)* and *Aquifer Protection Permit (APP) No. P-101704* require the abandonment of each well or corehole within 500 feet of the active resource blocks that were not constructed to Class III well standards. Section 2.2.3 of the APP also requires the abandonment of all wells and coreholes within 150 feet of all ponds and impoundments. All abandonments were completed in accordance with the UIC Permit, APP, and applicable Arizona Department of Water Resources (ADWR) regulations. This report summarizes abandonment work completed during Q3 2024, abandonment work is ongoing at the Site.

During Q3 2024 a total of 4 abandonments were completed, all 4 abandonments were coreholes. All abandonments completed during Q3 2024 were located within the Area of Review for the Site UIC Permit. A map showing the location of the abandoned wells and coreholes is included as Attachment 1. All depths are reported in depth below ground surface (bgs) unless otherwise indicated.

Abandonment Methods

The abandonments were completed by blast perforating and grouting via submerged tremie pipe with Type V neat cement grout.



The exploration coreholes records were evaluated to determine the depth and location of casing and annular materials.

The total current depth was measured for each well and corehole. If the corehole was not open to the minimum cleanout depth, a rotary drilling rig was used to drill and clean out to the minimum cleanout depth of 100 feet below the bedrock contact. Once the corehole was open, tremie pipe was run to the bottom of the open interval and the detonating cord was lowered into the corehole between the casing and the tremie pipe, by McMillan, to the design depth. Grout was pumped down through the tremie pipe until grout returns were observed at the surface. The tremie pipe was removed and the detonation cord was detonated to perforate the casing before the grout cured. After blasting the corehole, the casing was removed to 2 to 5 feet below surface and the grout was topped off with Type V cement grout to approximately 2 feet. Native fill was backfilled in the top 2 feet.

Summary of Abandonment Completions

All exploration coreholes were abandoned in accordance with the methods in Appendix C of the UIC Permit requiring that the coreholes be cleaned out to the minimum cleanout depth of 100 feet below the bedrock contact and perforated across the documented and/or modeled lithologic contacts. Type V neat cement was used for all abandonments and all grout volumes exceeded the calculated volume for abandonment.

The following exploration coreholes were abandoned during this phase of abandonments:

- 136S
- 354S
- 355S
- 418MF

ACS Services was mobilized to the site to clean out the wells and exploration Coreholes beginning in December 2023, and worked continued into Q3. Abandonments completed during Q1 and Q2 2024 were summarized in previous memorandums.

Exploration coreholes that were not open to the minimum cleanout depth were cleaned out to the minimum cleanout depth by ACS Services' rotary rig in May and June 2024. McMillan provided the blasting perforation services for all abandonments during one mobilization in July 2024.

Prior to grouting and blasting, all holes were tagged again to ensure that they remained open to the minimum grouting depth after cleanout.

Each corehole had tremie pipe installed to within thirty feet of the tagged open depth. Pentex PETN 100 grain detonating cord was installed across the required perforated intervals, and grout



was installed from the cleanout or open depth to ground surface. Blasting materials were detonated before the grout cured to perforate the casing and allow for the grout to push into the surrounding formation.

All exploration coreholes abandoned had the top five feet of casing removed, cement brought to 2 feet, and the excavation was backfilled with native material.

Attachment 2 includes a summary table of the abandonment details for the coreholes and wells included in this phase of abandonment.

ADWR Well Completion Reports for the abandoned exploration coreholes and wells are included in Attachment 3. United States Environmental Protection Agency Plugging and Abandonment forms for the exploration coreholes and wells located within the Area of Review are included in Attachment 4.

[Attachments:](#)

Attachment 1: Quarter 2 2024 Well and Corehole Abandonment Map

Attachment 2: Quarter 2 2024 Corehole and Well Abandonment Summary Table

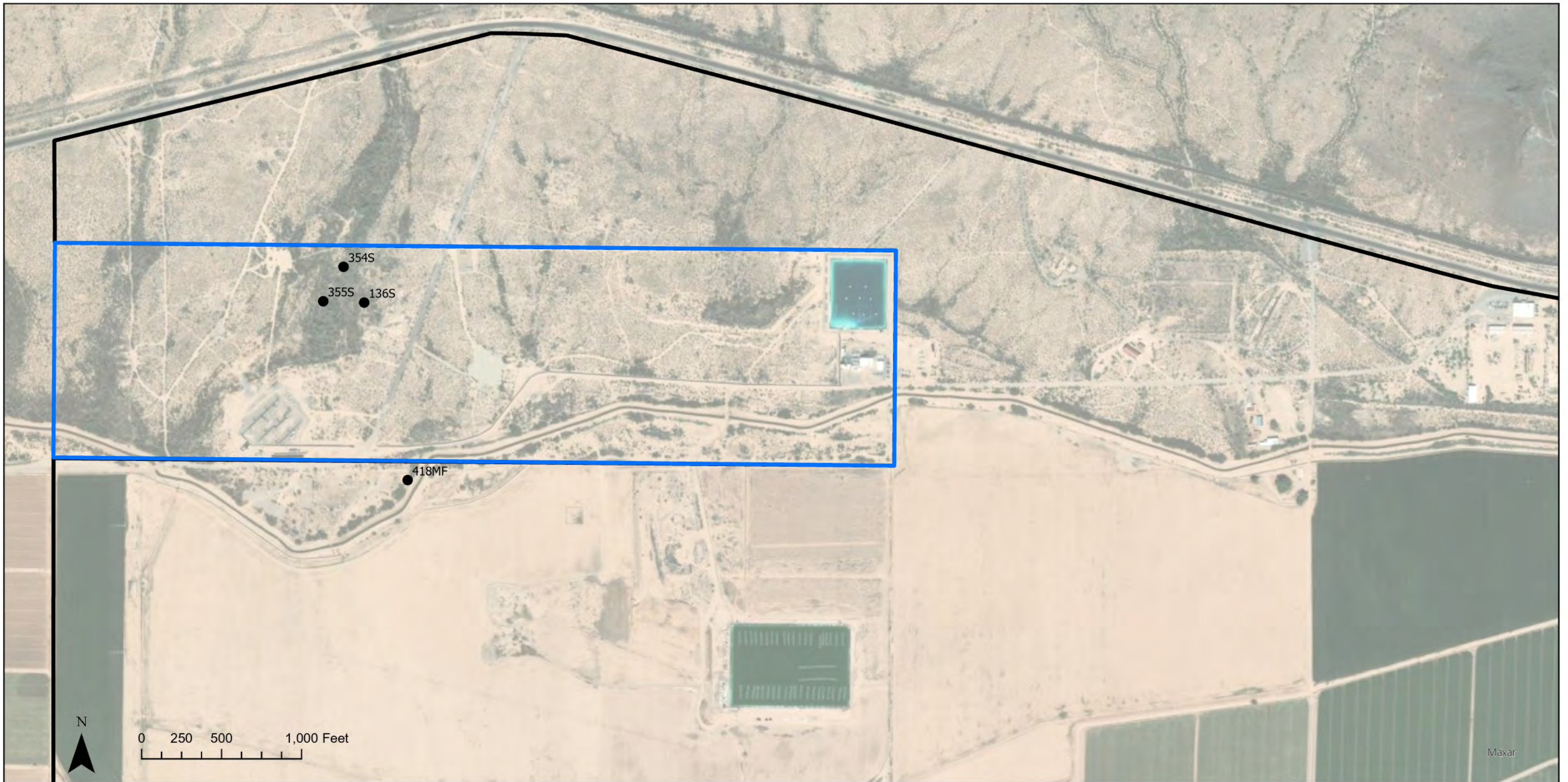
Attachment 3: ADWR Completion Reports for Q2 2024 Well and Corehole Abandonments

Attachment 4: USEPA Plugging and Abandonment Reports for Q2 2024 Well and Corehole Abandonments



Attachment 1

Quarter 3 2024 Well and Corehole Abandonment Map



Legend

-  PROPERTY BOUNDARY
-  STATE LAND BOUNDARY
-  Q3 ABANDONED COREHOLE



QUARTER 3 2024
WELL AND COREHOLE ABANDONMENTS
FLORENCE COPPER, FLORENCE, ARIZONA



Attachment 2

Quarter 3 2024 Well and Corehole Abandonment Summary Table

Table 1
Quarter 3 2024 Well and Corehole Abandonment Summary Table
Florence Copper Inc.
Florence, Arizona

General Information					Construction Details								Well Abandonment Details							
Name	ADWR Registry ID	Well Type	Easting	Northing	Total Depth (feet)	Diameter of Surface Borehole (inches)	Diameter of Surface Casing (inches)	Depth of Surface Casing (feet)	Diameter of Intermediate Borehole (inches)	Diameter of Intermediate Casing (inches)	Depth of Intermediate Borehole/ Casing (feet)	Cement Seal (feet)	Abandonment Material	Abandon Bottom Depth (feet)	Abandon Upper Depth (feet)	Calculated Grout Volume (cubic feet)	Actual Grout Volume (cubic feet)	Casing Treatment	Depth Interval of Casing Treatment (feet bls)	Date of Abandonment Completion
COREHOLES																				
136S	55-483130	Exploration Corehole	848241.552	746858.824	1448	6.25	5	60	5	3	354	0-354	Type V Neat Cement	454	2	22	25.7	Blast Perforate	5-350	7/22/2024
354S	55-483136	Exploration Corehole	848110.485	747081.261	1194	6.25	5	45	5	3	420	0-420	Type V Neat Cement	560	2	27	44.9	Blast Perforate	5-450	7/22/2024
355S	55-483126	Exploration Corehole	847985.5	746864.8	1606	6.5	5	45	5	3	420	0-420	Type V Neat Cement	670	2	33	62.9	Blast Perforate	5-420	7/22/2024
418MF	55-483100	Exploration Corehole	848523.137	745751.014	906	NR	NR	30	NR	355	355	NR	Type V Neat Cement	558	2	27	62.7	Blast Perforate	5-355	7/22/2024

NR = not recorded
NA = not applicable



Attachment 3

ADWR Completion Reports for Q3 2024 Well and Corehole Abandonments



Arizona Department of Water Resources
Groundwater Permitting and Wells
1802 W Jackson • Phoenix, Arizona 85007
(602) 771-8527 • 1-800-352-8488

Well Abandonment Completion Report

- ❖ Review instructions prior to completing form
- ❖ The drilling firm or single well licensee must file this report within 30 days of completion of abandonment. (A.R.S. § 45-594, A.A.C. R12-15-816)

** PLEASE PRINT CLEARLY **

FILE NUMBER

D(4-9) 28 CAB

WELL REGISTRATION NUMBER

55 - 483130

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:	NAME ACS SERVICES, LLC	DWR LICENSE NUMBER 854
	ADDRESS 2235 W. BROADWAY ROAD	TELEPHONE NUMBER 480-968-0190
	CITY / STATE / ZIP MESA, AZ 85202	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FLORENCE COPPER INC	CONTACT PERSON NAME AND TITLE <i>Ian Ream, Hydrogeological Super</i>
MAILING ADDRESS C/O IAN REAM	TELEPHONE NUMBER <i>(520) 374-3984</i>
CITY / STATE / ZIP FLORENCE, AZ 85132	FAX

Location of Well

WELL LOCATION ADDRESS (IF ANY) <i>1575 W Hunt Hwy, Florence AZ 85002</i>						LATITUDE <i>33° 3' 8.0" N</i> Degrees Minutes Seconds			LONGITUDE <i>111° 25' 58.0" W</i> Degrees Minutes Seconds		
TOWNSHIP (N/S) <i>4 S</i>	RANGE (E/W) <i>9 E</i>	SECTION <i>28</i>	160 ACRE <i>SW 1/4</i>	40 ACRE <i>NE 1/4</i>	10 ACRE <i>NW 1/4</i>	LAND SURFACE ELEVATION AT WELL <i>1485'</i> Feet Above Sea Level					
COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK MAP PARCEL						METHOD OF LATITUDE / LONGITUDE (Check One) ☒ GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ GPS: Survey-Grade					
						*If GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (Check One) ☐ NAD-83 ☒ Other (please specify): <i>Google Earth</i>					

SECTION 3.

Questions	Yes	No	Explanation:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated?		<i>X</i>	IF YES, EXPLAIN (Attach additional page if necessary)
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)	<i>X</i>		IF YES, PLEASE STATE <i>1365</i>
3. Prior to abandonment, did the well have 20' of surface casing and 20' of grout in the annular space surrounding the casing?		<i>X</i>	If no, was the top 20' of casing removed prior to setting the cement plug? ☐ Yes ☒ No
4. Was the well backfilled above the cement plug?	<i>X</i>		
5. Was the well casing video logged?		<i>X</i>	
6. Why was the well abandoned? <i>Not Needed</i>			

SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (Inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	60	6 1/4	0	60	5	X										
60	354	5	60	354	3	X										
354	1448	2.97														

Condition of casing: ☐ Good ☐ Fair ☒ Poor

Existing Annular Material (to the best of your knowledge)												
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)								FILTER PACK		
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
0	354			X								

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information

DEPTH TO WATER

Unknown

Feet Below Land Surface

DATE ABANDONMENT COMPLETED

7/22/2024

Casing Treatment							Sealing or Fill Material													
DEPTH FROM SURFACE		TREATMENT TYPE (T)					DEPTH FROM SURFACE		MATERIAL TYPE (T)										MIXING RATIO by (check one) ☐ Weight ☐ Volume	VOLUME OF MATERIAL USED (cubic feet)
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND PERFORATIONS THAT WERE ADDED	FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS			SAND			
														GROUT	CHIPS	PELLETS				
0	5				X		0	2												
5	350					Blow perf	2	454	X									2:1	25.7	

Actual Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- ☐ Standard Method ☐ Alternative 4 ☐ Other (please specify)
☐ Alternative 1 ☐ Variance Option
☐ Alternative 2 ☒ Alternative 5
☐ Alternative 3 ☐ Variance Option 1
☐ Variance Option 2

Emplacement Method of Sealing or Fill Material

CHECK ONE

- ☐ Gravity
☐ Pressure Grouting
☒ Tremie Pumped
☐ Other (please specify)

REMARKS

I state that this is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and

TYPE OR PRINT NAME AND TITLE

Charles Johnson

SIGNATURE OF QUALIFYING PARTY

Charles Johnson

DATE

8/02/2024



Arizona Department of Water Resources
Groundwater Permitting and Wells
1802 W Jackson • Phoenix, Arizona 85007
(602) 771-8527 • 1-800-352-8488

Well Abandonment Completion Report

- ❖ Review instructions prior to completing form
- ❖ The drilling firm or single well licensee must file this report within 30 days of completion of abandonment. (A.R.S. § 45-594, A.A.C. R12-15-816)

** PLEASE PRINT CLEARLY **

FILE NUMBER

D(4-9) 28 CAB

WELL REGISTRATION NUMBER

55 - 483136

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:	NAME ACS SERVICES, LLC	DWR LICENSE NUMBER 854
	ADDRESS 2235 W. BROADWAY ROAD	TELEPHONE NUMBER 480-968-0190
	CITY / STATE / ZIP MESA, AZ 85202	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FLORENCE COPPER	CONTACT PERSON NAME AND TITLE <i>Jan Ream</i>
MAILING ADDRESS 1575 W. HUNT HWY	TELEPHONE NUMBER <i>(520) 374-3984</i>
CITY / STATE / ZIP FLORENCE, AZ 85132	FAX

Location of Well

WELL LOCATION ADDRESS (IF ANY) <i>1575 W Hunt Hwy Florence AZ 85132</i>					LATITUDE <i>33° 3' 11.0" N</i> Degrees Minutes Seconds			LONGITUDE <i>111° 25' 59.0" W</i> Degrees Minutes Seconds			
TOWNSHIP (N/S) <i>4S</i>	RANGE (E/W) <i>9E</i>	SECTION <i>28</i>	160 ACRE <i>SW 1/4</i>	40 ACRE <i>NE 1/4</i>	10 ACRE <i>NW 1/4</i>	LAND SURFACE ELEVATION AT WELL <i>1490</i> Feet Above Sea Level					
COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK MAP PARCEL						METHOD OF LATITUDE / LONGITUDE (Check One) ☒ GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ GPS: Survey-Grade					
						*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (Check One) ☐ NAD-83 ☒ Other (please specify): <i>Google Earth</i>					

SECTION 3.

Questions	Yes	No	Explanation:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated?		☒	IF YES, EXPLAIN (Attach additional page if necessary)
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)	☒		IF YES, PLEASE STATE <i>3545</i>
3. Prior to abandonment, did the well have 20' of surface casing and 20' of grout in the annular space surrounding the casing?		☒	If no, was the top 20' of casing removed prior to setting the cement plug? ☐ Yes ☒ No
4. Was the well backfilled above the cement plug?	☒		
5. Was the well casing video logged?		☒	
6. Why was the well abandoned? <i>Not needed</i>			

SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	45	6.5	0	45	5	X									N/R	
45	420	5	45	420	3	X									N/R	
420	1194	2.97														

Condition of casing: ☐ Good ☐ Fair ☒ Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)							FILTER PACK		
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS			
0	420			X							

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information

DEPTH TO WATER

Unknown

Feet Below Land Surface

DATE ABANDONMENT COMPLETED

7/22/2024

Casing Treatment							Sealing or Fill Material												
DEPTH FROM SURFACE		TREATMENT TYPE (T)					DEPTH FROM SURFACE		MATERIAL TYPE (T)								MIXING RATIO by (check one) ☐ Weight ☐ Volume	VOLUME OF MATERIAL USED (cubic feet)	
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND PERFORATIONS THAT WERE ADDED	FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS					SAND
0	5				X		0	2											Natural
5	450					Blast Port	2	560	X									2:1	44.9

Actual Abandonment Method (See Well Abandonment Handbook)

CHECK ONE ☐ Alternative 4 ☐ Other (please specify)

☐ Standard Method ☐ Variance Option

☐ Alternative 1 ☒ Alternative 5

☐ Alternative 2 ☐ Variance Option 1

☐ Alternative 3 ☐ Variance Option 2

Emplacement Method of Sealing or Fill Material

CHECK ONE

☐ Gravity

☐ Pressure Grouting

☒ Tremie Pumped

☐ Other (please specify)

REMARKS

I state that this is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and

TYPE OR PRINT NAME AND TITLE

Charles Johnson Drilling Manager

SIGNATURE OF QUALIFYING PARTY

Charles Johnson

DATE

8/2/24



Arizona Department of Water Resources
Groundwater Permitting and Wells
1802 W Jackson • Phoenix, Arizona 85007
(602) 771-8527 • 1-800-352-8488

Well Abandonment Completion Report

- ❖ Review instructions prior to completing form
- ❖ The drilling firm or single well licensee must file this report within 30 days of completion of abandonment. (A.R.S. § 45-594, A.A.C. R12-15-816)

** PLEASE PRINT CLEARLY **

FILE NUMBER

D(4-9) 28 CAB

WELL REGISTRATION NUMBER

55 - 483126

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:	NAME	DWR LICENSE NUMBER
	ACS SERVICES, LLC	854
	ADDRESS	TELEPHONE NUMBER
	2235 W. BROADWAY ROAD	480-968-0190
	CITY / STATE / ZIP	FAX
	MESA, AZ 85202	

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL	CONTACT PERSON NAME AND TITLE
FLORENCE COPPER INC	<i>Ian Ream</i>
MAILING ADDRESS	TELEPHONE NUMBER
C/O IAN REAM	<i>520-374-3984</i>
CITY / STATE / ZIP	FAX
FLORENCE, AZ 85132	

Location of Well

WELL LOCATION ADDRESS (IF ANY)		LATITUDE			LONGITUDE		
<i>1575 W Hunt Hwy Florence, AZ 85132</i>		<i>33</i> °	<i>3</i> '	<i>8</i> " N	<i>111</i> °	<i>26</i> '	<i>2</i> " W
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE	LAND SURFACE ELEVATION AT WELL	
<i>4S</i>	<i>9E</i>	<i>28</i>	<i>SW 1/4</i>	<i>NE 1/4</i>	<i>NW 1/4</i>	<i>1484</i> Feet Above Sea Level	
COUNTY ASSESSOR'S PARCEL ID NUMBER						METHOD OF LATITUDE / LONGITUDE (Check One) ☒ GPS: Hand-Held	
BOOK		MAP		PARCEL		☐ USGS Quad Map ☐ Conventional Survey ☐ GPS: Survey-Grade	
						*If GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (Check One)	
						☐ NAD-83 ☒ Other (please specify): <i>Google Earth</i>	

SECTION 3.

Questions	Yes	No	Explanation:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated?		<i>X</i>	IF YES, EXPLAIN (Attach additional page if necessary)
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)	<i>X</i>		IF YES, PLEASE STATE <i>3555</i>
3. Prior to abandonment, did the well have 20' of surface casing and 20' of grout in the annular space surrounding the casing?		<i>X</i>	If no, was the top 20' of casing removed prior to setting the cement plug? ☐ Yes ☒ No
4. Was the well backfilled above the cement plug?	<i>X</i>		
5. Was the well casing video logged?		<i>X</i>	
6. Why was the well abandoned?	<i>Not Needed</i>		

Well Abandonment Completion Report

WELL REGISTRATION NUMBER
55 - 483126**SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN** (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	45	6.5	0	45	5	X										
45	120	5	45	120	3	X										
120	1606	2.97														

Condition of casing: ☐ Good ☐ Fair ☒ Poor**Existing Annular Material** (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)						FILTER PACK				
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
0	120			X								

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information

DEPTH TO WATER

Unknown

Feet Below Land Surface

DATE ABANDONMENT COMPLETED

07/22/2024

Casing Treatment						Sealing or Fill Material												
DEPTH FROM SURFACE		TREATMENT TYPE (T)					DEPTH FROM SURFACE		MATERIAL TYPE (T)								MIXING RATIO by (check one) ☐ Weight ☐ Volume	VOLUME OF MATERIAL USED (cubic feet)
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND PERFORATIONS THAT WERE ADDED	FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS				
0	5				X		0	2										
5	120					Blast Perf	2	670	X									2:1 62.9

Actual Abandonment Method (See Well Abandonment Handbook)**Emplacement Method of Sealing or Fill Material**

CHECK ONE

☐ Standard Method☐ Alternative 1☐ Alternative 2☐ Alternative 3☐ Alternative 4☐ Variance Option☒ Alternative 5☐ Variance Option 1☐ Variance Option 2☐ Other (please specify)

CHECK ONE

☐ Gravity☐ Pressure Grouting☒ Tremie Pumped☐ Other (please specify)

REMARKS

I state that this is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and

TYPE OR PRINT NAME AND TITLE

Charles Johnson Drilling Manager

SIGNATURE OF QUALIFYING PARTY

Charles Johnson

DATE

08/06/2024



Arizona Department of Water Resources
Groundwater Permitting and Wells
1802 W Jackson • Phoenix, Arizona 85007
(602) 771-8527 • 1-800-352-8488

Well Abandonment Completion Report

- ❖ Review instructions prior to completing form
- ❖ The drilling firm or single well licensee must file this report withing 30 days of completion of abandonment. (A.R.S. § 45-594, A.A.C. R12-15-816)

** PLEASE PRINT CLEARLY **

FILE NUMBER

D(4-9) 28 CDA

WELL REGISTRATION NUMBER

55 - 483100

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:	NAME ACS SERVICES, LLC	DWR LICENSE NUMBER 854
	ADDRESS 2235 W. BROADWAY ROAD	TELEPHONE NUMBER 480-968-0190
	CITY / STATE / ZIP MESA, AZ 85202	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FLORENCE COPPER INC	CONTACT PERSON NAME AND TITLE <i>Ian Ream</i>
MAILING ADDRESS C/O IAN REAM	TELEPHONE NUMBER <i>(520) 374-3984</i>
CITY / STATE / ZIP FLORENCE, AZ 85132	FAX

Location of Well

WELL LOCATION ADDRESS (IF ANY) <i>1575 W Hunt Hwy Florence, AZ 85132</i>				LATITUDE <i>33° 2' 57.1" N</i> Degrees Minutes Seconds			LONGITUDE <i>111° 25' 55" W</i> Degrees Minutes Seconds		
TOWNSHIP (N/S) <i>4S</i>	RANGE (E/W) <i>9E</i>	SECTION <i>28</i>	160 ACRE <i>SW 1/4</i>	40 ACRE <i>SE 1/4</i>	10 ACRE <i>NE 1/4</i>	LAND SURFACE ELEVATION AT WELL <i>1477'</i> Feet Above Sea Level			
COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK <i>200</i> MAP <i>31</i> PARCEL <i>020</i>						METHOD OF LATITUDE / LONGITUDE (Check One) ☒ GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ GPS: Survey-Grade			
						*If GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (Check One) ☐ NAD-83 ☒ Other (please specify): <i>Google Earth</i>			

SECTION 3.

Questions	Yes	No	Explanation:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated?		<i>X</i>	IF YES, EXPLAIN (Attach additional page if nessessary)
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)	<i>X</i>		IF YES, PLEASE STATE <i>418 MF</i>
3. Prior to abandonment, did the well have 20' of surface casing and 20' of grout in the annular space surrounding the casing?		<i>X</i>	If no, was the top 20' of casing removed prior to setting the cement plug? ☐ Yes ☒ No
4. Was the well backfilled above the cement plug?	<i>X</i>		
5. Was the well casing video logged?		<i>X</i>	
6. Why was the well abandoned? <i>Not Needed</i>			

SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	0	NR	0	30	NR	X										
30	355	NR	0	355	3	X										
355	906	2.97														

Condition of casing: ☐ Good ☐ Fair ☒ Poor**Existing Annular Material** (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)							FILTER PACK			
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
									NR			

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information

DEPTH TO WATER

Unknown

Feet Below Land Surface

DATE ABANDONMENT COMPLETED

7/22/24

Casing Treatment						Sealing or Fill Material												
DEPTH FROM SURFACE		TREATMENT TYPE (T)				IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND PERFORATIONS THAT WERE ADDED	DEPTH FROM SURFACE		MATERIAL TYPE (T)							MIXING RATIO by (check one) ☐ Weight ☐ Volume	VOLUME OF MATERIAL USED (cubic feet)	
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)		FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	GROUT	CHIPS			PELLETS
0	5				X		0	2										
5	355					Blot Perf	2	558	X									2:1 62.7

Actual Abandonment Method (See Well Abandonment Handbook)**Emplacement Method of Sealing or Fill Material**

CHECK ONE

☐ Standard Method☐ Alternative 1☐ Alternative 2☐ Alternative 3☐ Alternative 4☐ Variance Option☒ Alternative 5☐ Variance Option 1☐ Variance Option 2☐ Other (please specify)

CHECK ONE

☐ Gravity☐ Pressure Grouting☒ Tremie Pumped☐ Other (please specify)

REMARKS

I state that this is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and

TYPE OR PRINT NAME AND TITLE

Charles Johnson

Drilling Manager

SIGNATURE OF QUALIFYING PARTY

Charles Johnson

DATE

8/30/24



Attachment 4

USEPA Plugging and Abandonment
Reports for Q3 Well and Corehole
Abandonments

United States Environmental Protection Agency



WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN, OR PLUGGING AND ABANDONMENT AFFIDAVIT

Name and Address, Phone Number and/or Email of Permittee

Florence Copper LLC
1575 West Hunt Highway
Florence, Arizona 85132
520-374-3984

Permit or EPA ID Number

R9UIC-AZ3-FY19-1

API Number

Full Well Name

136S

State

Arizona

County

Pinal

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 33 3' 08"

Surface Location

NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E

Longitude 111 25' 58"

337 ft. from (N/S) N Line of quarter section

700 ft. from (E/W) E Line of quarter section.

Well Class

Timing of Action (pick one)

Type of Action (pick one)

- ☐ Class I
☐ Class II
☒ Class III
☐ Class V

☐ Notice Prior to Work

Date Expected to Commence

☒ Report After Work

Date Work Ended July 2024

☐ Well Rework☒ Plugging and Abandonment☐ Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Corehole 136S had fill to the surface, ACS services set up an air rotary drilling rig on the corehole and cleaned out the corehole to the cleanout depth of 454 feet below land surface using a 2 7/8 inch tricone drilling bit.

Detonation cord (100 grain) was installed in the corehole from 5-350 feet, tremie was installed to within 30 feet of the bottom of the corehole, and Type V neat cement was installed from 454 feet to land surface. After cement returns were observed at surface, the detonation cord was detonated to perforate the casing and the grout was topped off to land surface.

After the grout cured and settled, the top 5 feet of casing was removed and the grout was topped off to 2 feet below land surface. The excavation was backfilled from 2 feet to land surface with native fill.

A total of 25.7 cubic feet of Type V neat cement grout was installed, the calculated volume was 22 cubic feet.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

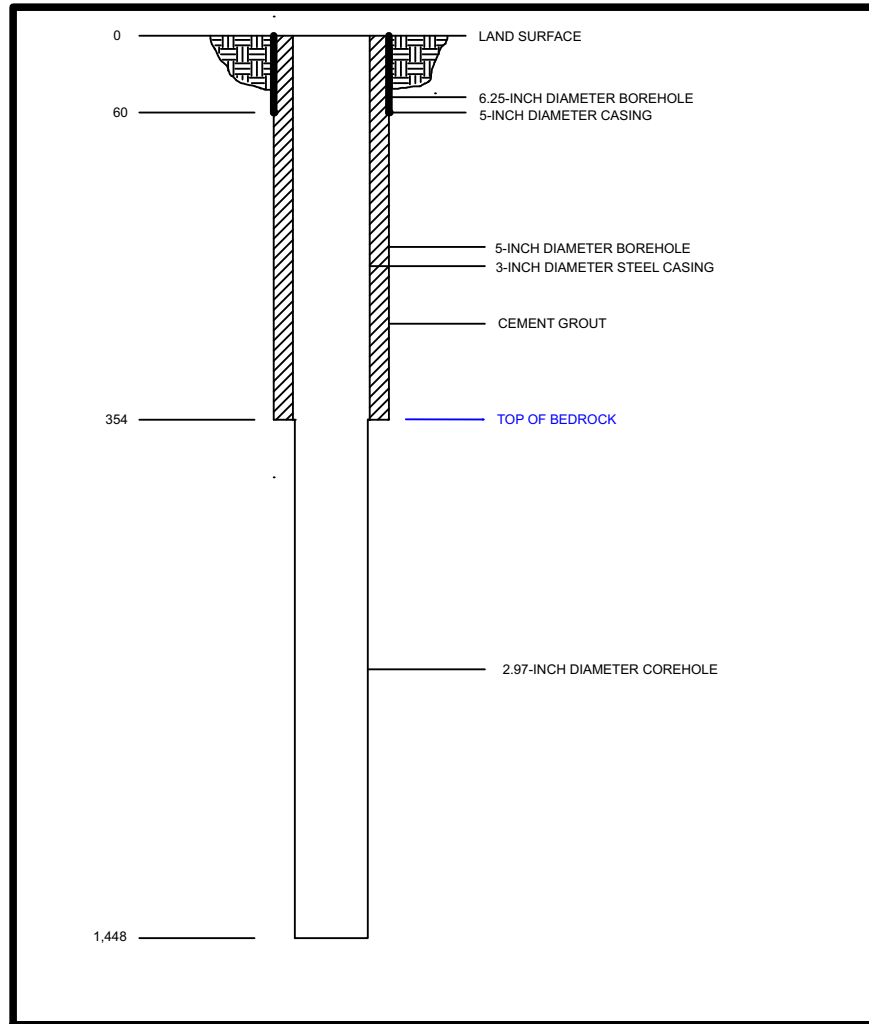
John Mays, General Manager Florence Copper

Signature

Date Signed

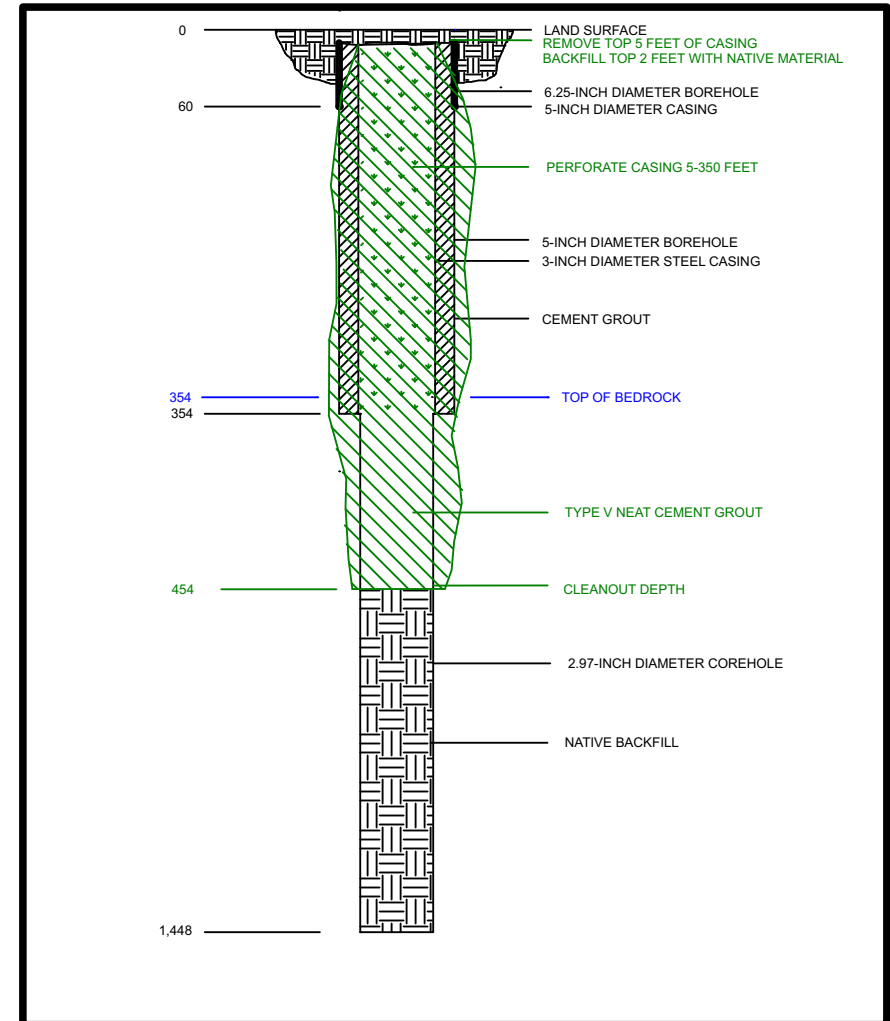
10/16/2024

EXISTING COREHOLE SCHEMATIC



NOTE:
DRAWING NOT TO SCALE
ALL DEPTHS ARE FEET BELOW LAND SURFACE

ABANDONMENT DIAGRAM



WELL REGISTRY ID: 55-483130
CADASTRAL LOCATION: D(4-9)28CAB

**Florence
Copper**

**COREHOLE 136S
ABANDONMENT COMPLETION DIAGRAM
FLORENCE COPPER LLC**

RGC
Hydro Services

United States Environmental Protection Agency

**WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN,
OR PLUGGING AND ABANDONMENT AFFIDAVIT**

Name and Address, Phone Number and/or Email of Permittee

Florence Copper LLC
1575 West Hunt Highway
Florence, Arizona 85132
520-374-3984

Permit or EPA ID Number

R9UIC-AZ3-FY19-1

API Number

Full Well Name

354S

State

Arizona

County

Pinal

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 33 3' 11"

Surface Location

NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E

Longitude 111 25' 59"

115 ft. from (N/S) N Line of quarter section

482 ft. from (E/W) W Line of quarter section.

Well Class

Timing of Action (pick one)

Type of Action (pick one)

- ☐ Class I
☐ Class II
☒ Class III
☐ Class V

☐ Notice Prior to Work

Date Expected to Commence

☒ Report After Work

Date Work Ended July 2024

☐ Well Rework☒ Plugging and Abandonment☐ Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Corehole 354S was tagged to a depth of 149 feet, ACS services set up an air rotary drilling rig on the corehole and cleaned out the corehole to the cleanout depth of 560 feet below land surface using a 2 7/8 inch tricone drilling bit.

Detonation cord (100 grain) was installed in the corehole from 5-450 feet, tremie was installed to within 30 feet of the bottom of the corehole, and Type V neat cement was installed from 560 feet to land surface. After cement returns were observed at surface, the detonation cord was detonated to perforate the casing and the grout was topped off to land surface.

After the grout cured and settled, the top 5 feet of casing was removed and the grout was topped off to 2 feet below land surface. The excavation was backfilled from 2 feet to land surface with native fill.

A total of 44.9 cubic feet of Type V neat cement grout was installed, the calculated volume was 27 cubic feet.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

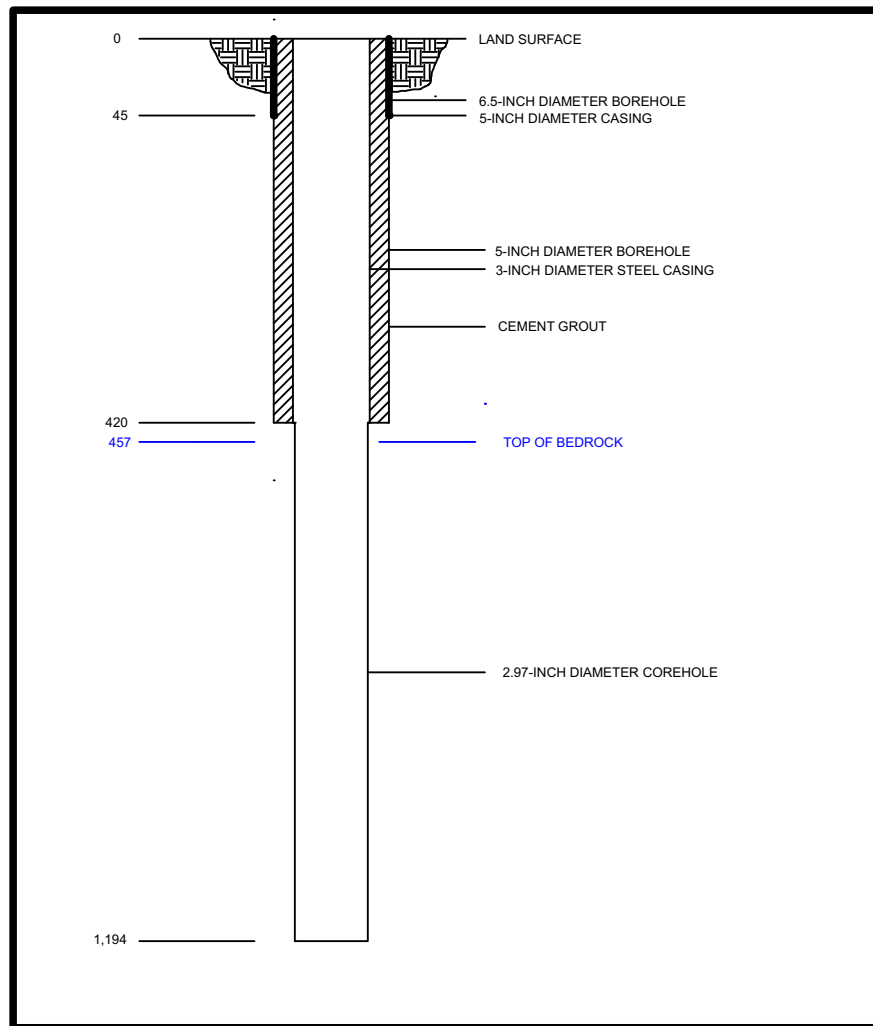
John Mays, General Manager Florence Copper

Signature

Date Signed

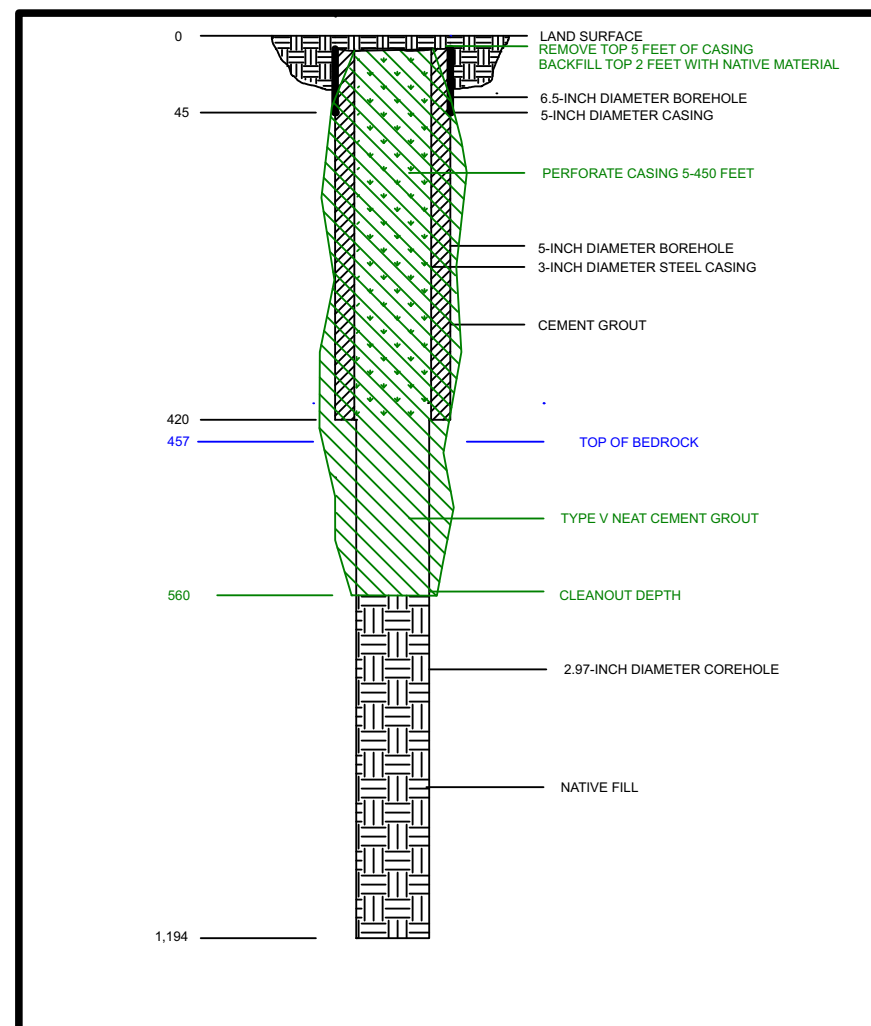
10/16/2024

EXISTING COREHOLE SCHEMATIC



NOTE:
DRAWING NOT TO SCALE
ALL DEPTHS ARE FEET BELOW LAND SURFACE

ABANDONMENT DIAGRAM



WELL REGISTRY ID: 55-483136
CADASTRAL LOCATION: D(4-9)28CAB

**Florence
Copper**

**COREHOLE 354S
ABANDONMENT COMPLETION DIAGRAM
FLORENCE COPPER LLC**

RGC
Hydro Services

United States Environmental Protection Agency



WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN, OR PLUGGING AND ABANDONMENT AFFIDAVIT

Name and Address, Phone Number and/or Email of Permittee

Florence Copper LLC
1575 West Hunt Highway
Florence, Arizona 85132
520-374-3984

Permit or EPA ID Number

R9UIC-AZ3-FY19-1

API Number

Full Well Name

355S

State

Arizona

County

Pinal

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 33 3' 08"

Surface Location

NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E

Longitude 111 26' 02"

331 ft. from (N/S) N Line of quarter section

358 ft. from (E/W) W Line of quarter section.

Well Class

Timing of Action (pick one)

Type of Action (pick one)

- ☐ Class I
☐ Class II
☒ Class III
☐ Class V

☐ Notice Prior to Work

Date Expected to Commence

☒ Report After Work

Date Work Ended July 2024

☐ Well Rework☒ Plugging and Abandonment☐ Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Corehole 355S was tagged to a depth of 147 feet, ACS services set up an air rotary drilling rig on the corehole and cleaned out the corehole to the cleanout depth of 670 feet below land surface using a 2 7/8 inch tricone drilling bit.

Detonation cord (100 grain) was installed in the corehole from 5-420 feet, tremie was installed to within 30 feet of the bottom of the corehole, and Type V neat cement was installed from 670 feet to land surface. After cement returns were observed at surface, the detonation cord was detonated to perforate the casing and the grout was topped off to land surface.

After the grout cured and settled, the top 5 feet of casing was removed and the grout was topped off to 2 feet below land surface. The excavation was backfilled from 2 feet to land surface with native fill.

A total of 62.9 cubic feet of Type V neat cement grout was installed, the calculated volume was 33 cubic feet.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

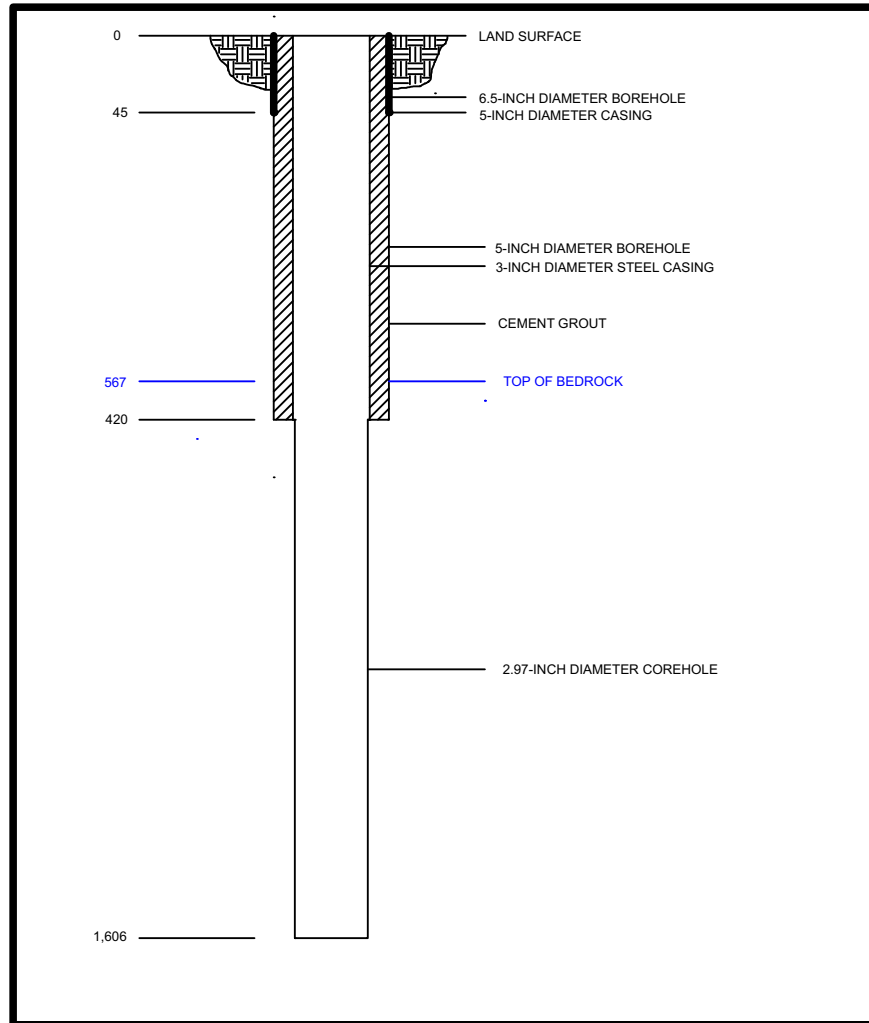
John Mays, General Manager Florence Copper

Signature

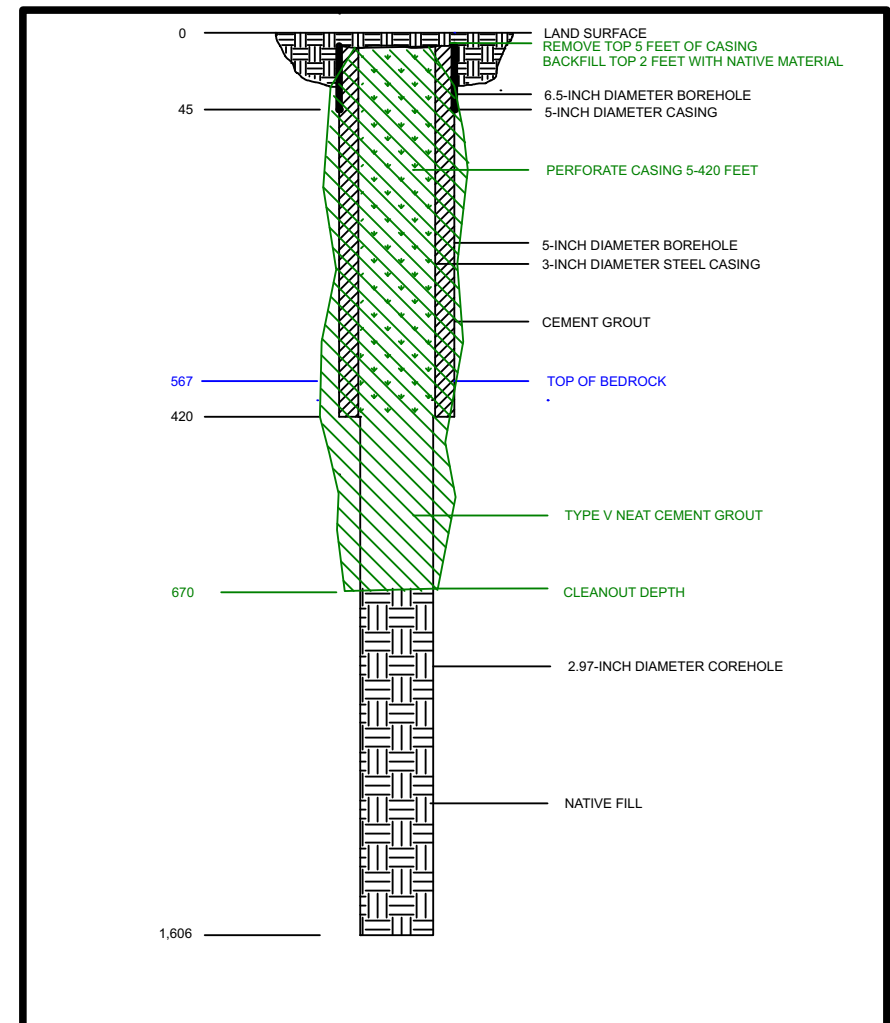
Date Signed

10/16/2024

EXISTING COREHOLE SCHEMATIC



ABANDONMENT DIAGRAM



NOTE:
DRAWING NOT TO SCALE
ALL DEPTHS ARE FEET BELOW LAND SURFACE

WELL REGISTRY ID: 55-483126
CADASTRAL LOCATION: D(4-9)28CAB



COREHOLE 355S
ABANDONMENT COMPLETION DIAGRAM
FLORENCE COPPER LLC



United States Environmental Protection Agency



WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN, OR PLUGGING AND ABANDONMENT AFFIDAVIT

Name and Address, Phone Number and/or Email of Permittee

Florence Copper LLC
1575 West Hunt Highway
Florence, Arizona 85132
520-374-3984

Permit or EPA ID Number

R9UIC-AZ3-FY19-1

API Number

Full Well Name

418MF

State

Arizona

County

Pinal

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 33 2' 57.10" N

Surface Location

SE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E

Longitude 111 25' 55.00" W

1180 ft. from (N/S) S Line of quarter section

400 ft. from (E/W) E Line of quarter section.

Well Class

Timing of Action (pick one)

Type of Action (pick one)

- ☐ Class I
☐ Class II
☒ Class III
☐ Class V

☐ Notice Prior to Work

Date Expected to Commence

☒ Report After Work

Date Work Ended July 2024

☐ Well Rework☒ Plugging and Abandonment☐ Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Corehole 418MF was tagged to a depth of 335 feet, ACS services set up an air rotary drilling rig on the corehole and cleaned out the corehole to the cleanout depth of 558 feet below land surface using a 2 7/8 inch tricone drilling bit.

Detonation cord (100 grain) was installed in the corehole from 5-355 feet, tremie was installed to within 30 feet of the bottom of the corehole, and Type V neat cement was installed from 558 feet to land surface. After cement returns were observed at surface, the detonation cord was detonated to perforate the casing and the grout was topped off to land surface.

After the grout cured and settled, the top 5 feet of casing was removed and the grout was topped off to 2 feet below land surface. The excavation was backfilled from 2 feet to land surface with native fill.

A total of 62.7 cubic feet of Type V neat cement grout was installed, the calculated volume was 27 cubic feet.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

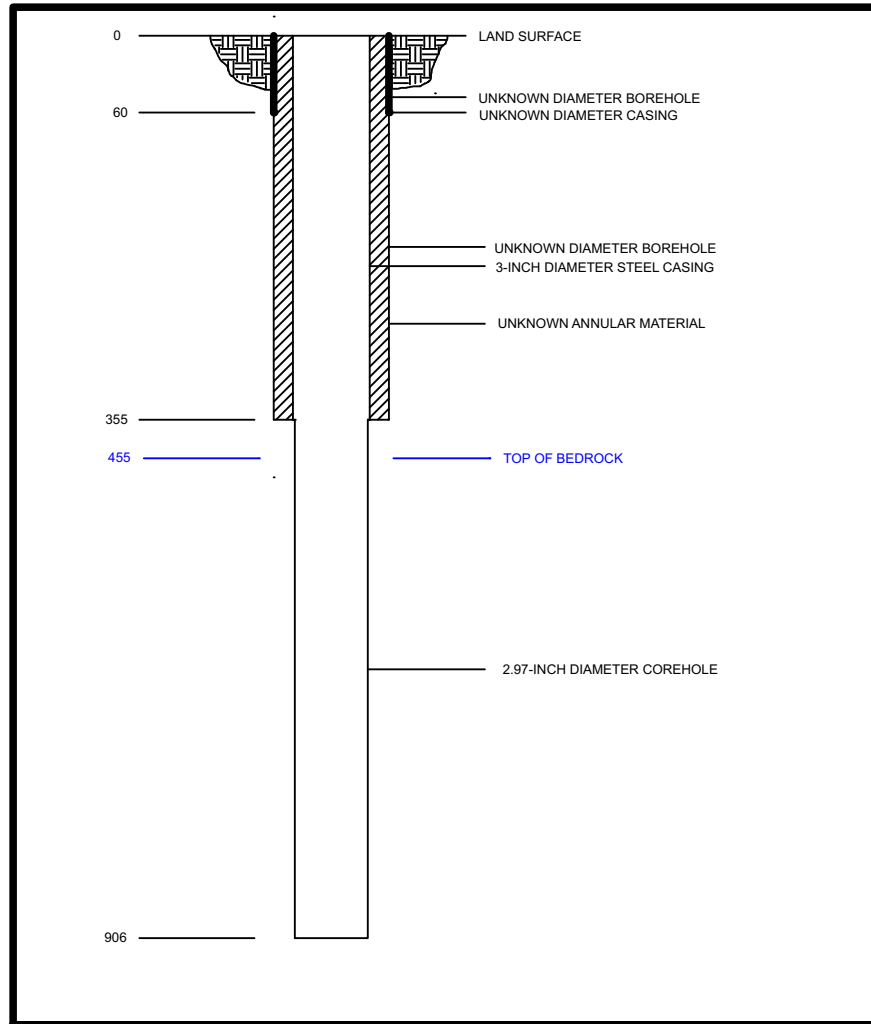
John Mays, General Manager Florence Copper

Signature

Date Signed

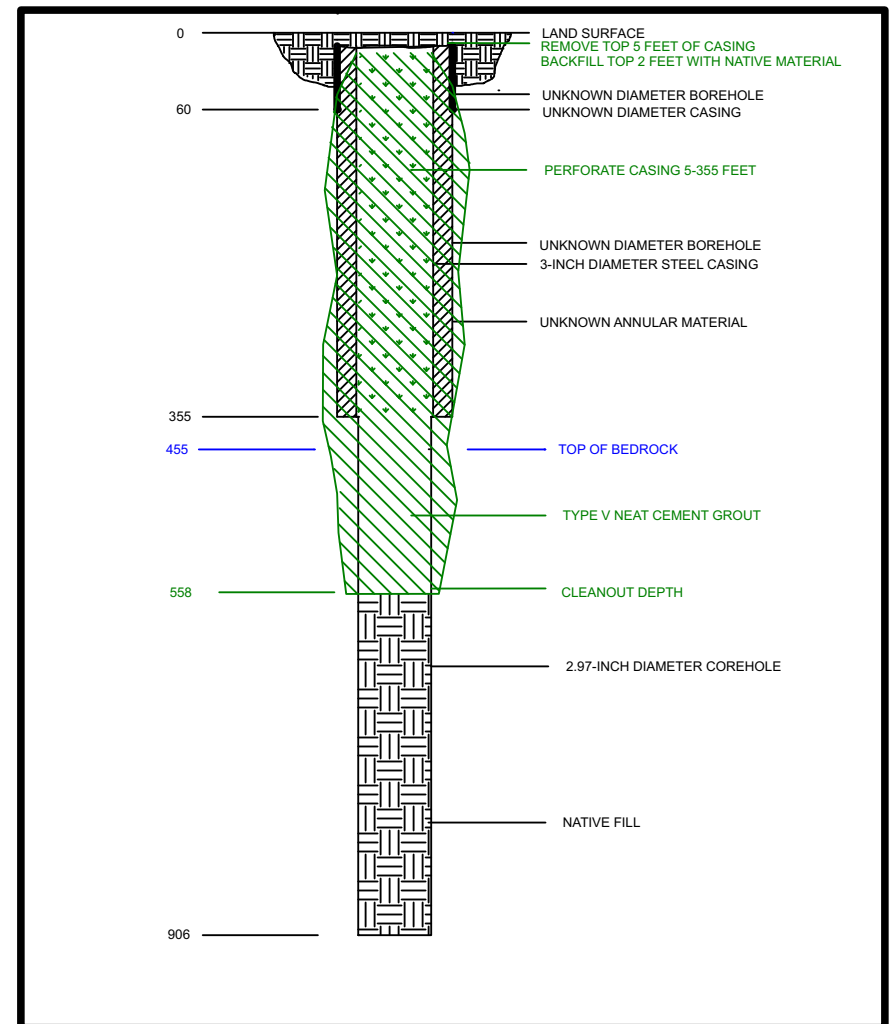
10/16/2024

EXISTING COREHOLE SCHEMATIC



NOTE:
DRAWING NOT TO SCALE
ALL DEPTHS ARE FEET BELOW LAND SURFACE

ABANDONMENT DIAGRAM



WELL REGISTRY ID: 55-483100
CADASTRAL LOCATION: D(4-9)28CDA

**Florence
Copper**

**COREHOLE 418MF
ABANDONMENT COMPLETION DIAGRAM
FLORENCE COPPER LLC**

RGC
Hydro Services

ATTACHMENT 12

Table of Monthly Casing Annulus and Injection Pressures

Q3 2024 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 1. July 2024 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
7/1/2024	0.01	0.00	0.03	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/2/2024	NM	NM	NM	0.00	0.00	0.00	0.02	0.01	0.03	NM	NM	NM	NM	NM	NM	112.89
7/3/2024	0.00	0.00	0.01	0.05	0.00	1.23	0.02	0.01	0.03	NM	NM	NM	NM	NM	NM	112.89
7/4/2024	0.00	0.00	0.00	NM	NM	NM	0.02	0.01	0.03	NM	NM	NM	NM	NM	NM	112.89
7/5/2024	0.00	0.00	0.00	0.25	0.00	2.10	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/7/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/9/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/10/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/15/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/18/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/19/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/20/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/21/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/22/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/23/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/24/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/25/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/26/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/27/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/28/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/29/2024	0.01	0.00	1.83	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/30/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
7/31/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

I-01 off 7/2/2024

I-02 off 7/4/2024

I-04 off 7/2/2024 - 7/4/2024

R-09 not used for injection during Q3

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / \text{Conv}]$ Where:

$P\text{-Fracture}$ = Pressure allowed at the top of the injection well screen (TOS)

$D\text{-TOS}$ = Depth to top of injection well screens

$P\text{-TOS}$ = Total pressure allowed at top of screen = $P\text{-Fracture} \times D\text{-TOS}$

Conv = Feet of Water per psi

$P\text{-Col}$ = Pressure from weight of water column at TOS

$P\text{-Wellhead}$ = Allowable pressure at the top of the wellhead = $P\text{-TOS} - P\text{-Col}$

=	0.65	psi/foot of depth
=	520	feet
=	0.65 psi/foot x 520 feet	338 psi
=	2.31	feet/psi
=	520 feet / 2.31 feet/psi	225.11 psi
=	338 psi - 255.1 psi	112.89 psi

Q3 2024 DAILY WELLHEAD PRESSURES - INJECTION WELLS
 FLORENCE COPPER LLC
 FLORENCE, ARIZONA

Table 2. August 2024 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
8/1/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/2/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/3/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/4/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/5/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/7/2024	0.01	0.00	1.65	0.19	0.00	3.24	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/9/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/10/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/15/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/18/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/19/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/20/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/21/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/22/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/23/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/24/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/25/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/26/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/27/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/28/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/29/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/30/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
8/31/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

R-09 not used for injection during Q3

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture = Pressure allowed at the top of the injection well screen (TOS)

D-TOS = Depth to top of injection well screens

P-TOS = Total pressure allowed at top of screen = P-Fracture x D-TOS

Conv = Feet of Water per psi

P-Col = Pressure from weight of water column at TOS

P-Wellhead = Allowable pressure at the top of the wellhead = P-TOS - P-Col

=	0.65	psi/foot of depth
=	520	feet
= 0.65 psi/foot x 520 feet	338	psi
=	2.31	feet/psi
= 520 feet / 2.31 feet/psi	225.11	psi
= 338 psi - 255.1 psi	112.89	psi

Q3 2024 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER LLC

FLORENCE, ARIZONA

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Table 3. September 2024 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
9/1/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/2/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/3/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/4/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/5/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/7/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/9/2024	0.02	0.00	6.84	0.19	0.00	2.76	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/10/2024	0.01	0.00	2.31	0.09	0.00	7.44	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/15/2024	0.00	0.00	0.00	1.74	0.00	8.51	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/18/2024	0.02	0.00	0.04	1.77	0.00	4.40	0.01	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
9/19/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/20/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/21/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/22/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/23/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/24/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/25/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/26/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/27/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/28/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/29/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/30/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

R-09 not used for injection during Q3

9/19 - 9/30/2024: No injection

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture = Pressure allowed at the top of the injection well screen (TOS)

D-TOS = Depth to top of injection well screens

P-TOS = Total pressure allowed at top of screen = P-Fracture x D-TOS

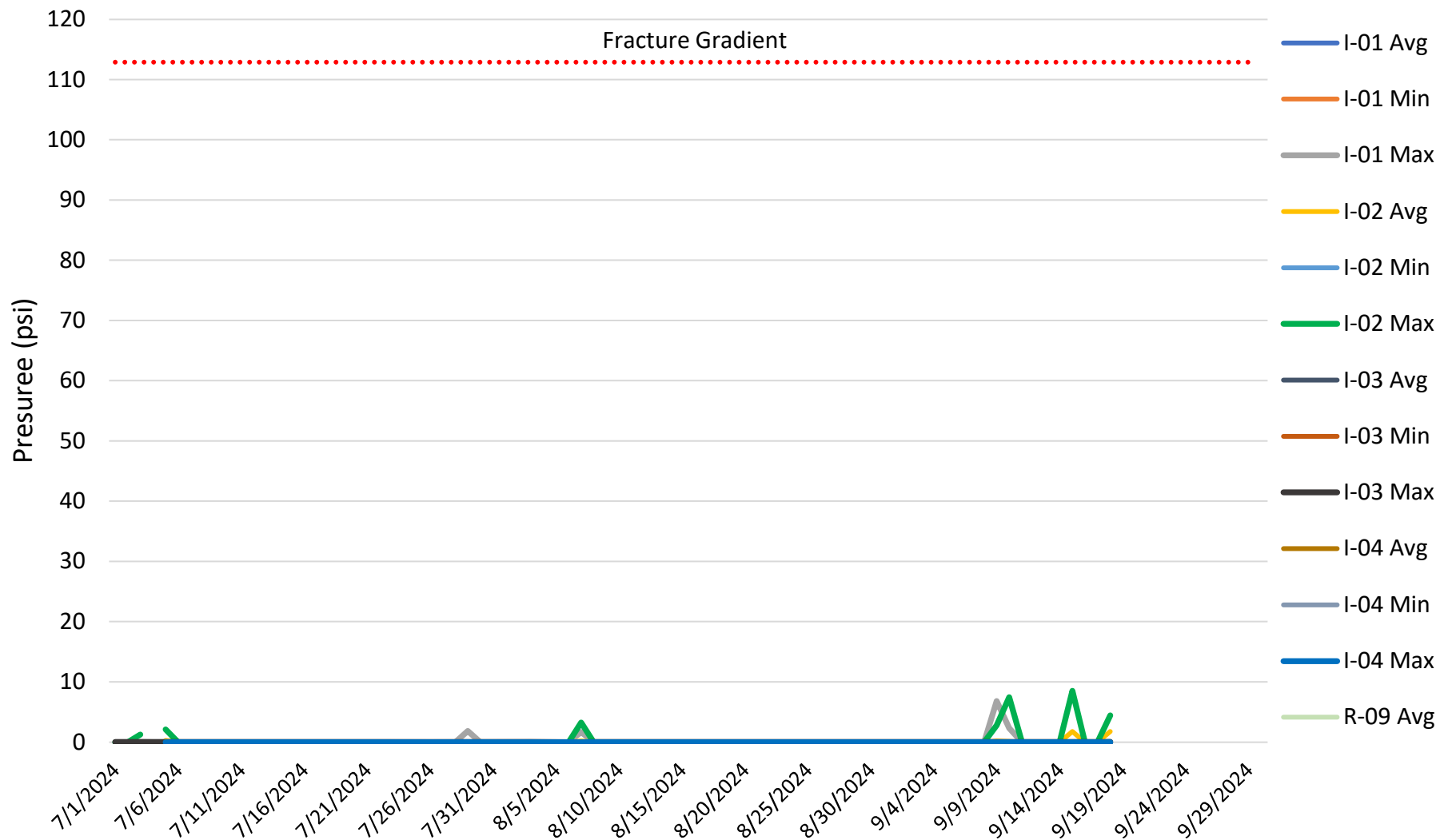
Conv = Feet of Water per psi

P-Col = Pressure from weight of water column at TOS

P-Wellhead = Allowable pressure at the top of the wellhead = P-TOS - P-Col

=	0.65	psi/foot of depth
=	520	feet
= 0.65 psi/foot x 520 feet	338	psi
=	2.31	feet/psi
= 520 feet / 2.31 feet/psi	225.11	psi
= 338 psi - 255.1 psi	112.89	psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Note: No injection 9/19 - 9/30/2024

Q3 2024 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 4. July 2024 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
7/1/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/2/2024	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	112.89
7/3/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	112.89
7/4/2024	0.00	0.00	0.00	NM	NM	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	112.89
7/5/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/7/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/9/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/10/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/15/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/18/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/19/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/20/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/21/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/22/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/23/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/24/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/25/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/26/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/27/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/28/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/29/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/30/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
7/31/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

I-01 off 7/2/2024

I-02 off 7/4/2024

I-04 off 7/2/2024 - 7/4/2024

R-09 not used for injection during Q3

Q3 2024 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 5. August 2024 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
8/1/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/2/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/3/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/4/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/5/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/7/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/9/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/10/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/15/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/18/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/19/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/20/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/21/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/22/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/23/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/24/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/25/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/26/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/27/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/28/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/29/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/30/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
8/31/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

R-09 not used for injection during Q3

Q3 2024 DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 6. September 2024 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	
9/1/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/2/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/3/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/4/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/5/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/6/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/7/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/8/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/9/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/10/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/12/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/13/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/14/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/15/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/16/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/17/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/18/2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
9/19/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/20/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/21/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/22/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/23/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/24/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/25/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/26/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/27/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/28/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/29/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89
9/30/2024	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	112.89

Notes:

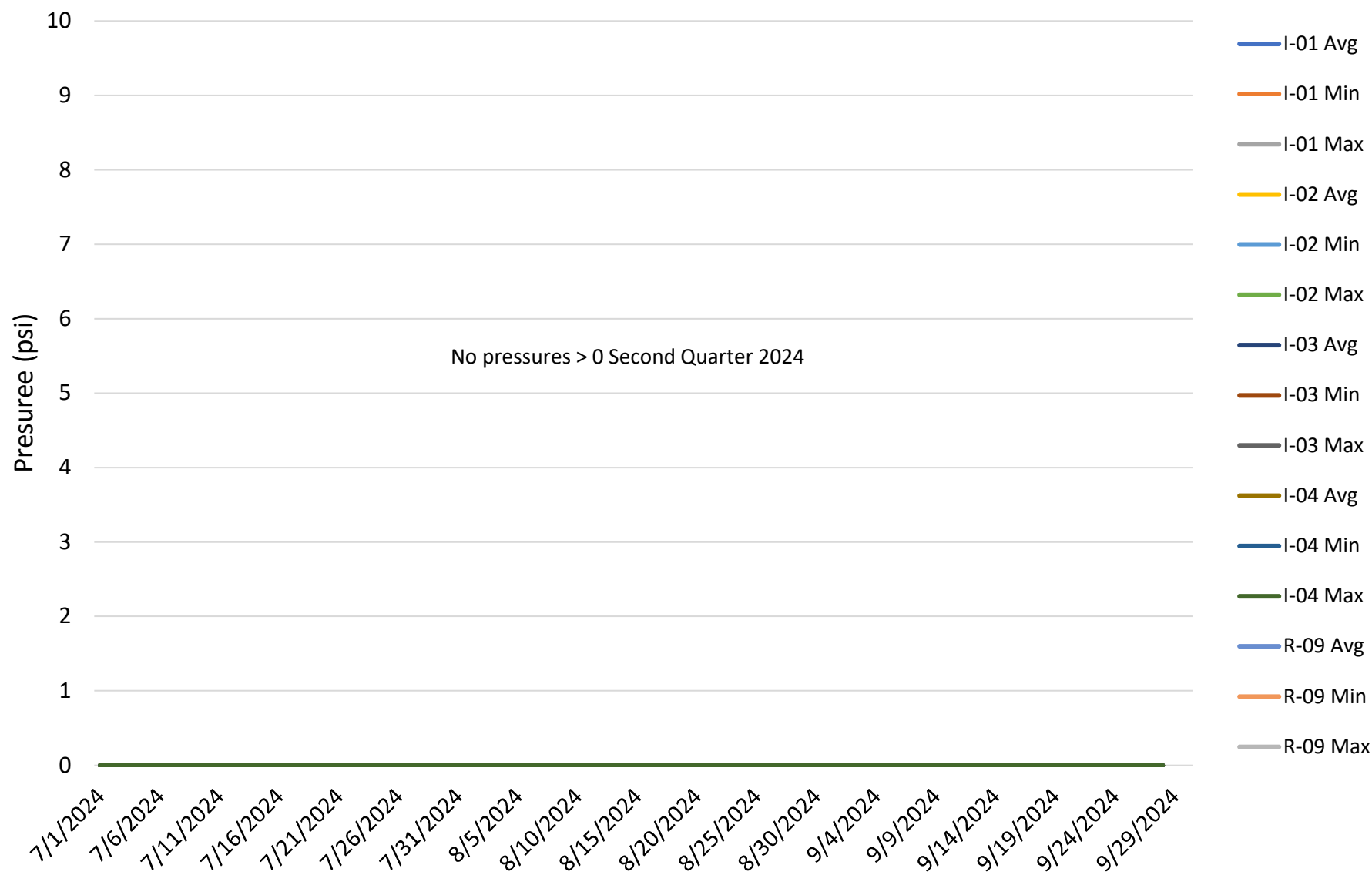
All measurements in pounds per square inch (psi)

No data were available for the following dates/wells:

R-09 not used for injection during Q3

9/19 - 9/30/2024: No injection

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 13

Resource Block Status Report

Q3 2024 RESOURCE BLOCK STATUS SUMMARY

FLORENCE COPPER LLC

FLORENCE, ARIZONA

Table 1. Resource Block Status Summary

Resource Block ⁽¹⁾	Block Status	Development Categories			
		PTF Wellfield ⁽²⁾	Package 1 ⁽³⁾	Package 2 ⁽⁴⁾	Package 3 ⁽⁵⁾
036	Under Construction			Yes	
037	Under Construction, Planned		Yes	Yes	Yes
045	Rinsing, Under Construction, Planned	Yes	Yes	Yes	
046	Planned		Yes		Yes
053	Rinsing, Under Construction, Planned	Yes		Yes	Yes
054	Rinsing, Under Construction, Planned	Yes	Yes	Yes	Yes
062	Planned				Yes

Notes:

(1) Resource block numbering provided in Figure 1 attached.

(2) PTF Wellfield = Rinsing during monitoring period

(3) Package 1 Wells = Includes both planned and under construction wells during monitoring period

(4) Package 2 Wells = Includes both planned and under construction wells during monitoring period

(5) Package 3 Wells = Wells that are not within Package 1 or 2 but have preliminary plans for construction

ATTACHMENT 14

Migratory Bird Landings

TABLE 1
Q3 2024 OBSERVED MIGRATORY BIRD LANDINGS
FLORENCE COPPER LLC
FLORENCE, ARIZONA

Date	Migratory Bird Species	Comments:	Fatality* (Y or N)
-	-	-	-

Notes:
Florence Copper personnel conduct daily inspections of the water impoundments. There were no reported migratory bird landings during Q3 2024.
**Bird fatalities tabulated for daily inspections at water impoundments.*