

Sent VIA EMAIL

January 28, 2021

Mr. Elliott Russell  
Environmental Protection Specialist  
Colorado Department of Natural  
Resources Division of Reclamation,  
Mining, and Safety Office of Mined  
Land Reclamation  
1313 Sherman Street, Room 215  
Denver, Colorado 80203

RE: Cresson Project Permit M-1980-244:  
Ground Water Monitoring Data: 4<sup>th</sup> Quarter 2020  
Surface Water Monitoring Data: 4<sup>th</sup> Quarter 2020

Dear Mr. Russell:

Cripple Creek & Victor Gold Mining Company ("CC&V") is hereby providing the ground water & surface water monitoring report for the Cresson Project compliance locations for the 4<sup>th</sup> quarter, (October through December) 2020.

CC&V collected all required samples as outlined in Permit No. M-1980-244. During the quarter samples collected at the Arequa Gulch wells (CRMW-5A, CRMW-5D, and ESPMW-1), Grassy Valley wells (GVMW-25), Poverty Gulch wells (PGMW-2 and PGMW-4), Squaw Gulch wells (SGMW-5, SGMW-6A, SGMW-7A, and SGMW-7B), and Vindicator Valley well (VIN-2A) were reported dry. Surface water sampling locations in Arequa Gulch (AG 2.0), Wilson Creek (WCSW-01), Vindicator Valley (T-2), and Grassy Valley (GV-02 & GV-03) had no flow and were also reported dry.

Exceedances recorded in the Squaw Gulch drainage from samples collected on October 19, 2020 pertain to analytes beryllium, fluoride, manganese, and sulfate. Fourth quarter, 2020 concentrations reported are consistent with previous quarter concentrations reported. No new or anomalous concentrations are reported for this drainage.

Exceedances recorded in the Grassy Valley drainage from samples collected on October 12, 2020 and October 13, 2020 pertain to the analyte fluoride. Fourth quarter, 2020 concentrations reported are consistent with previous quarter concentrations reported. No new or anomalous concentrations are reported for this drainage.

Exceedances recorded in the Wilson Creek drainage from samples collected on October 14, 2020 pertain to the analyte manganese. Fourth quarter, 2020 concentrations reported are consistent with previous quarter concentrations reported. No new or anomalous concentrations are reported for this drainage.

Exceedances recorded in the Arequa Gulch drainage from samples collected on October 20, 2020 and November 4, 2020 pertain to cobalt, fluoride, manganese, uranium, and sulfate. Fourth quarter, 2020 concentrations reported are consistent with previous quarter concentrations reported. No new or anomalous concentrations are reported for this drainage.

As reported on October 28, 2020, CC&V collected fourth quarter compliance groundwater samples from monitoring well GVMW-22A on October 12, 2020. CC&V received the lab report for these analyses on October 27, 2020, and upon review, CC&V determined that GVMW-22A exceeded established numeric protection limits for fluoride. Table 1 below lists the exceedance for the location and the associated parameter.

Table 1.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Standard (mg/L)
GVMW-22A	10/12/2020	Fluoride	2.17	2	2

As reported on November 3, 2020, CC&V collected fourth quarter compliance groundwater samples from monitoring well GVMW-8A on October 13, 2020, from WCMW-6 on October 14, 2020, and from SGMW-6B on October 19, 2020. CC&V received the lab report for the GVMW-8A analyses on October 28, 2020, received the lab report for the WCMW-6 analyses on October 29, 2020, and received the lab report for the SGMW-6B analyses on November 2, 2020. Upon review, CC&V determined that GVMW-8A exceeded established numeric protection limits for fluoride, WCMW-6 exceeded established numeric protection limits for manganese, and SGMW-6B exceeded numeric protection limits for fluoride and manganese, and exceeded table value standards for beryllium and sulfate. Table 2 below lists the exceedance for the location and the associated parameter.

Table 2.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Standard (mg/L)
GVMW-8A	10/13/2020	Fluoride	2.17	2	2
SGMW-6B	10/19/2020	Beryllium	0.0535	-	0.004
SGMW-6B	10/19/2020	Fluoride	7.7	2	2
SGMW-6B	10/19/2020	Manganese	6.51	3	0.05
SGMW-6B	10/19/2020	Sulfate	922	-	250
WCMW-6	10/14/2020	Manganese	0.206	0.2	0.05

As reported on November 5, 2020, CC&V collected fourth quarter compliance groundwater samples from monitoring wells CRMW-5A, CRMW-5B, and CRMW-5C on October 20, 2020. CC&V received the lab reports for the CRMW-5A, CRMW-5B, and CRMW-5C analyses on November 2, 2020. Upon review, CC&V determined that monitoring well CRMW-5A exceeded established table value standards for uranium, and monitoring wells CRMW-5B and CRMW-5C exceeded established numeric protection limits for fluoride. Table 3 below lists the exceedance for the location and the associated parameter.

Table 3.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Standard (mg/L)
CRMW-5A	10/20/2020	Uranium	0.0771	-	0.03
CRMW-5B	10/20/2020	Fluoride	2.97	2	2
CRMW-5C	10/20/2020	Fluoride	3.1	2	2

As reported on November 19, 2020, CC&V collected fourth quarter compliance groundwater samples from monitoring wells CRMW-3B, and CRMW-3C on November 4, 2020. CC&V received the lab reports for the CRMW-3B, and CRMW-3C analyses on November 17, 2020. Upon review, CC&V determined that monitoring well CRMW-3B exceeded established table value standards for cobalt and uranium and exceeded established numeric protection limits for fluoride and manganese. Monitoring well CRMW-3C exceeded established table value standards for sulfate and exceeded established numeric protection limits for fluoride. The table below lists the exceedance for the location and the associated parameter and the attached graphs demonstrates the parameter.

Table 4.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Standard (mg/L)
CRMW-3B	11/4/2020	Cobalt	0.0551	-	0.05
CRMW-3B	11/4/2020	Fluoride	3.34	2	2
CRMW-3B	11/4/2020	Manganese	27.9	8.1	0.05
CRMW-3B	11/4/2020	Uranium	0.0341	-	0.03
CRMW-3C	11/4/2020	Fluoride	2.28	2	2
CRMW-3C	11/4/2020	Sulfate	785	-	250

Sincerely,



Katie Blake  
Sustainability Manager  
Cripple Creek & Victor Gold Mining Company

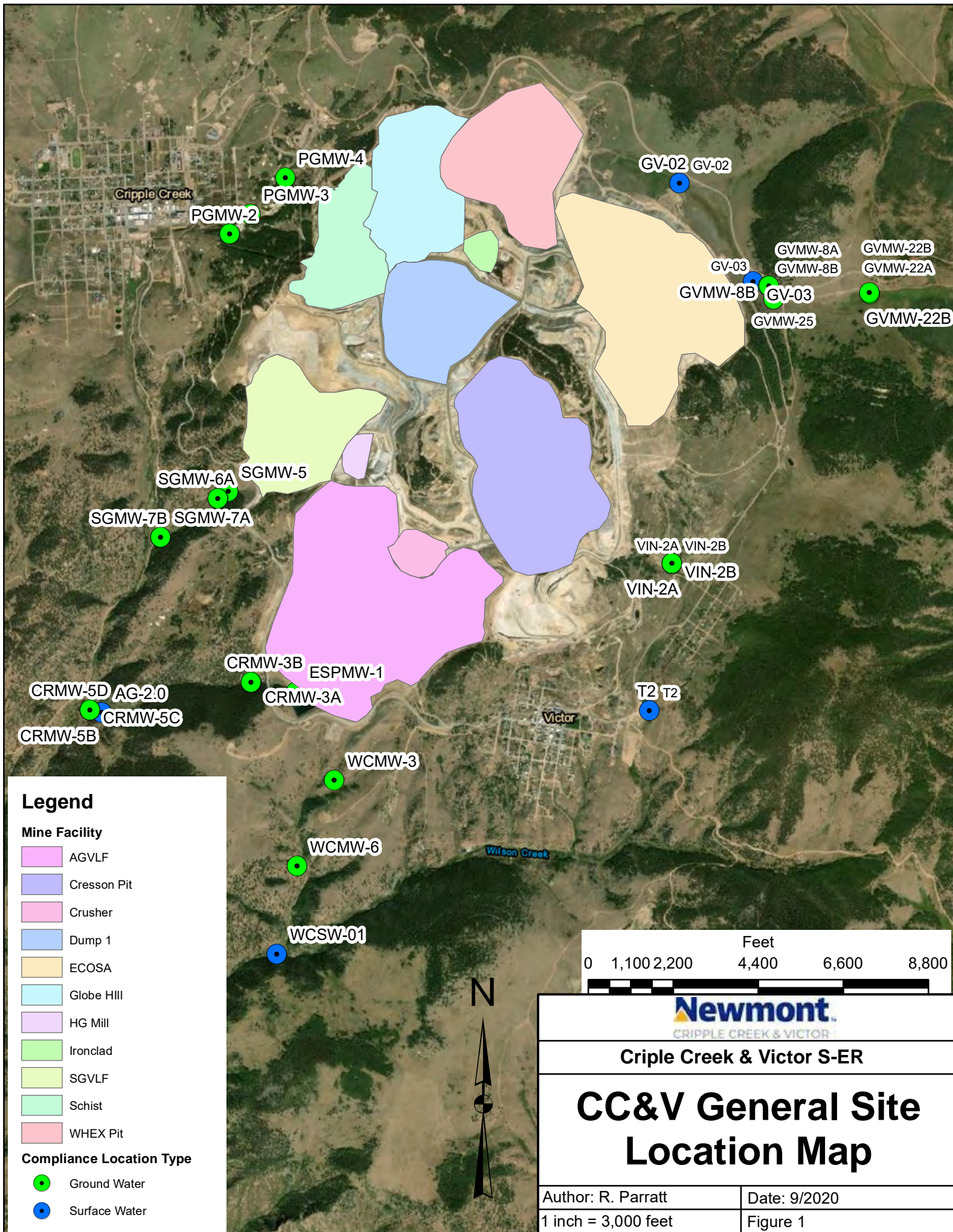
ECC:

Michael Cunningham - DRMS  
Lynda Morgan - Teller County  
Mike Crepeau - Teller County

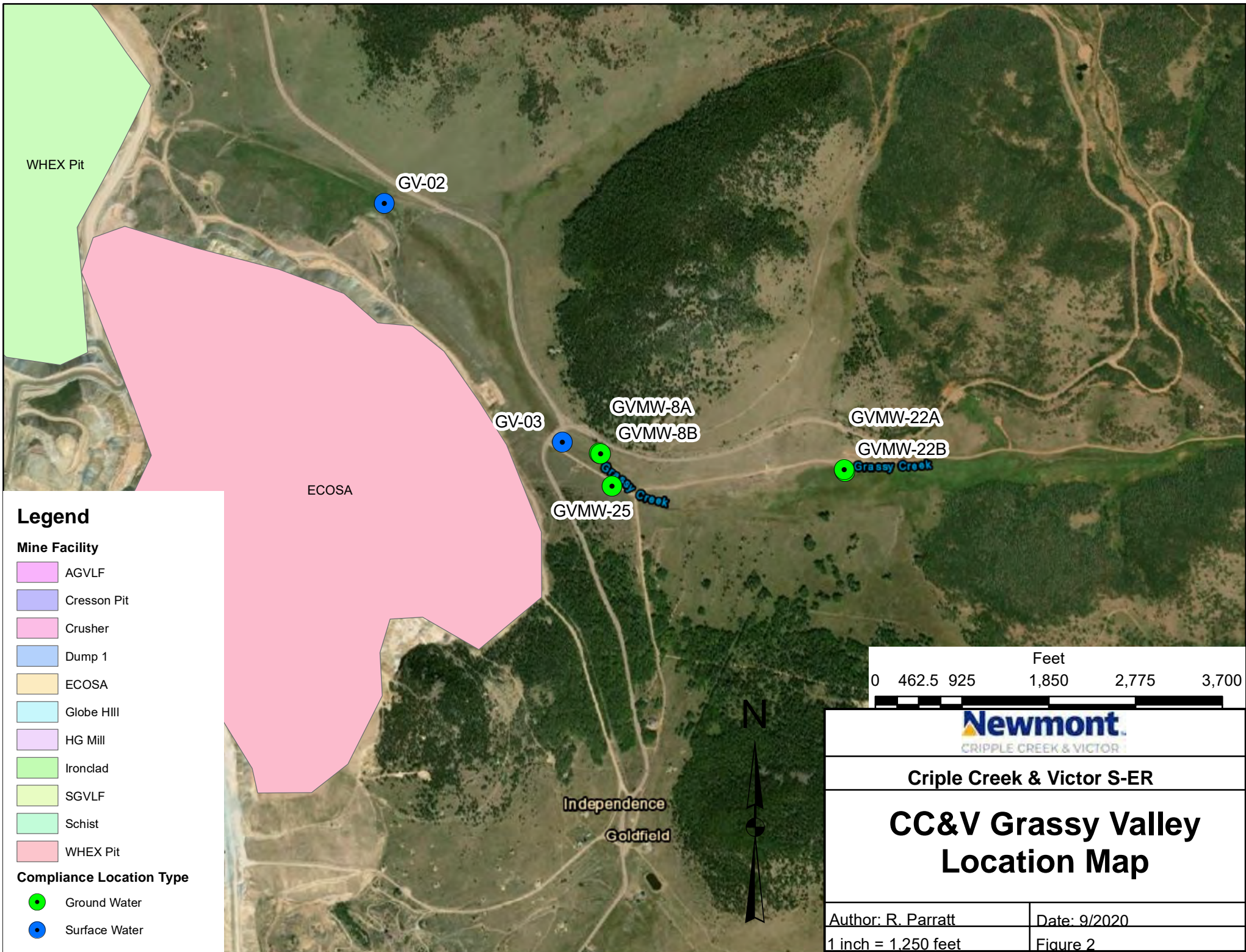
## Appendix A

## Location Maps

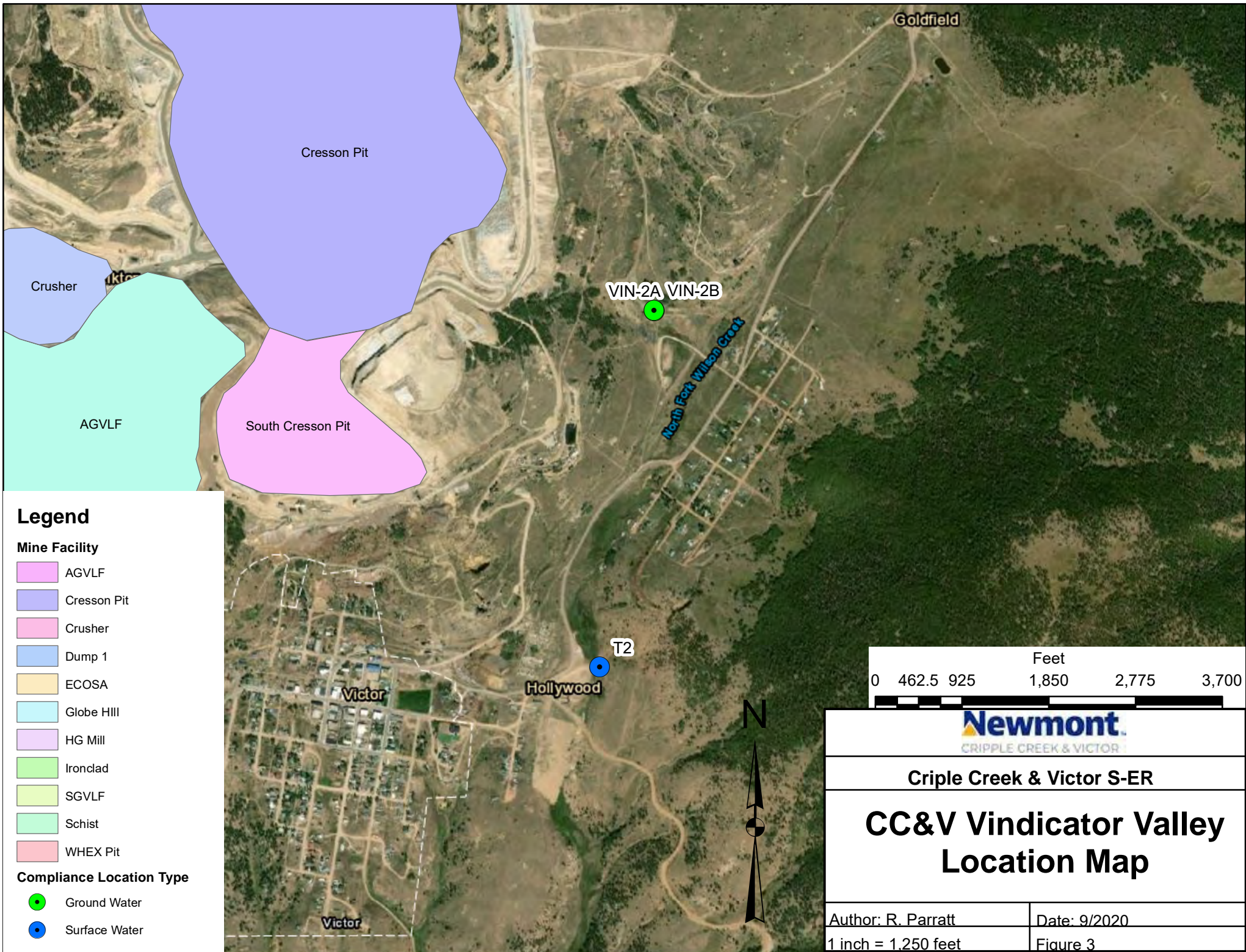




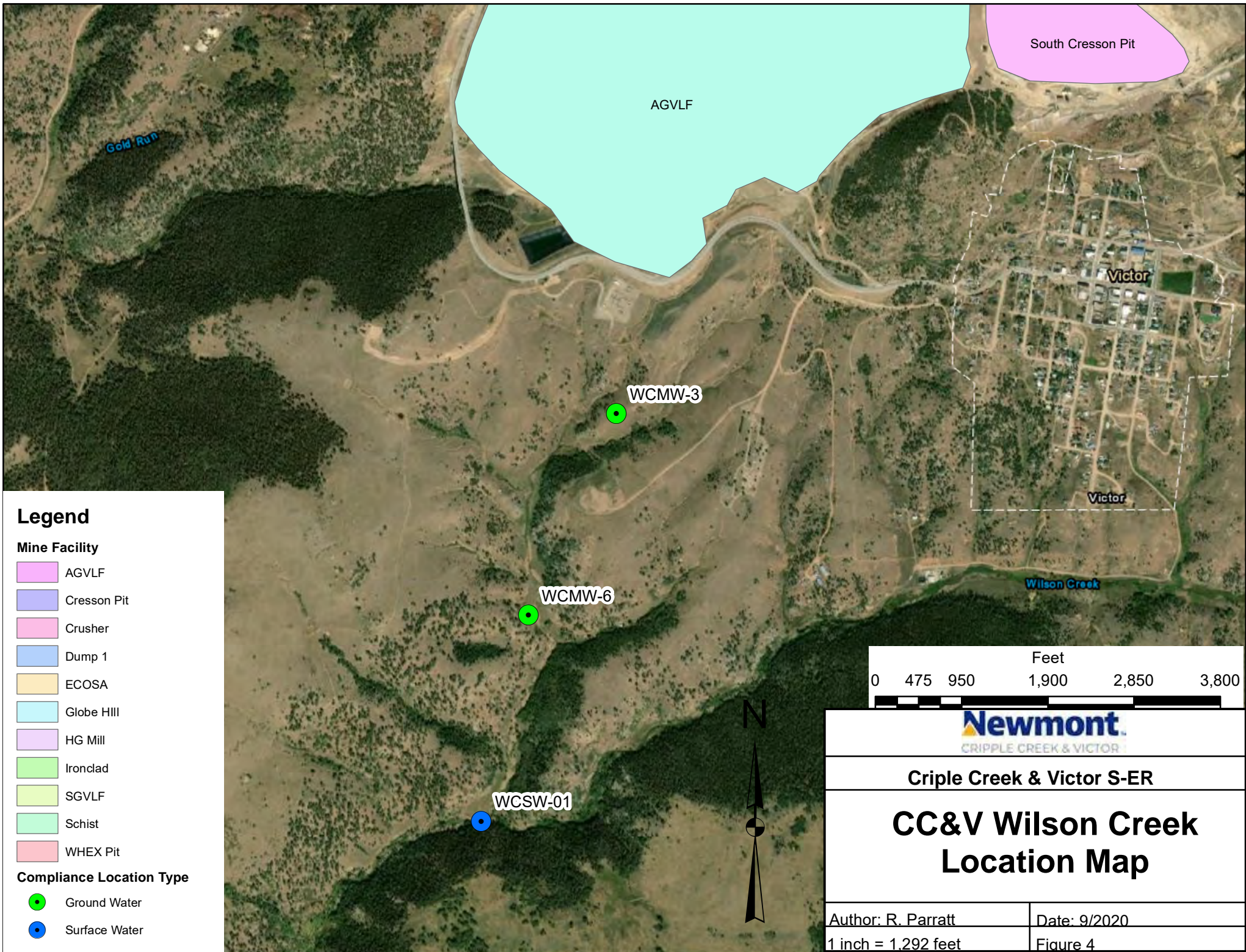




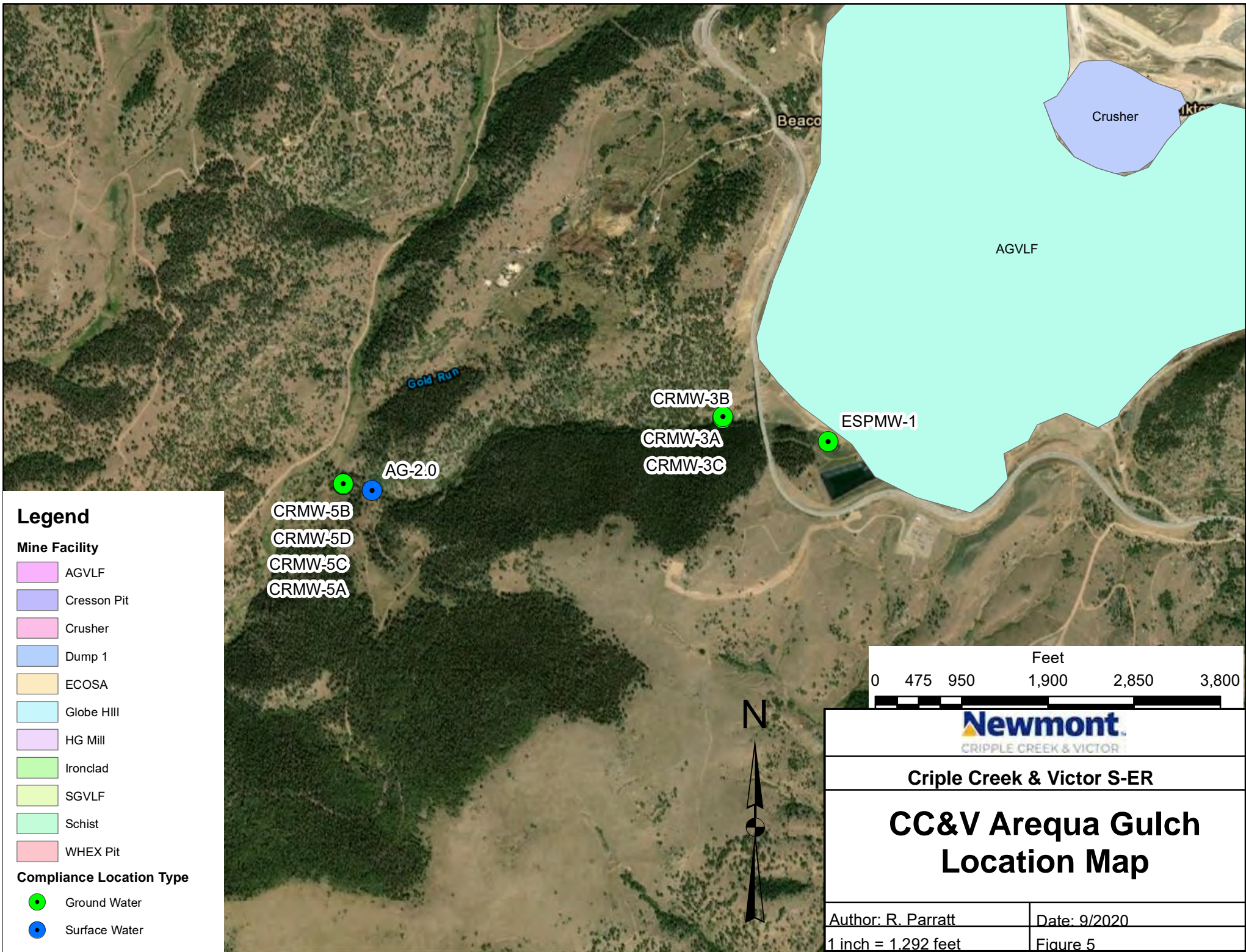




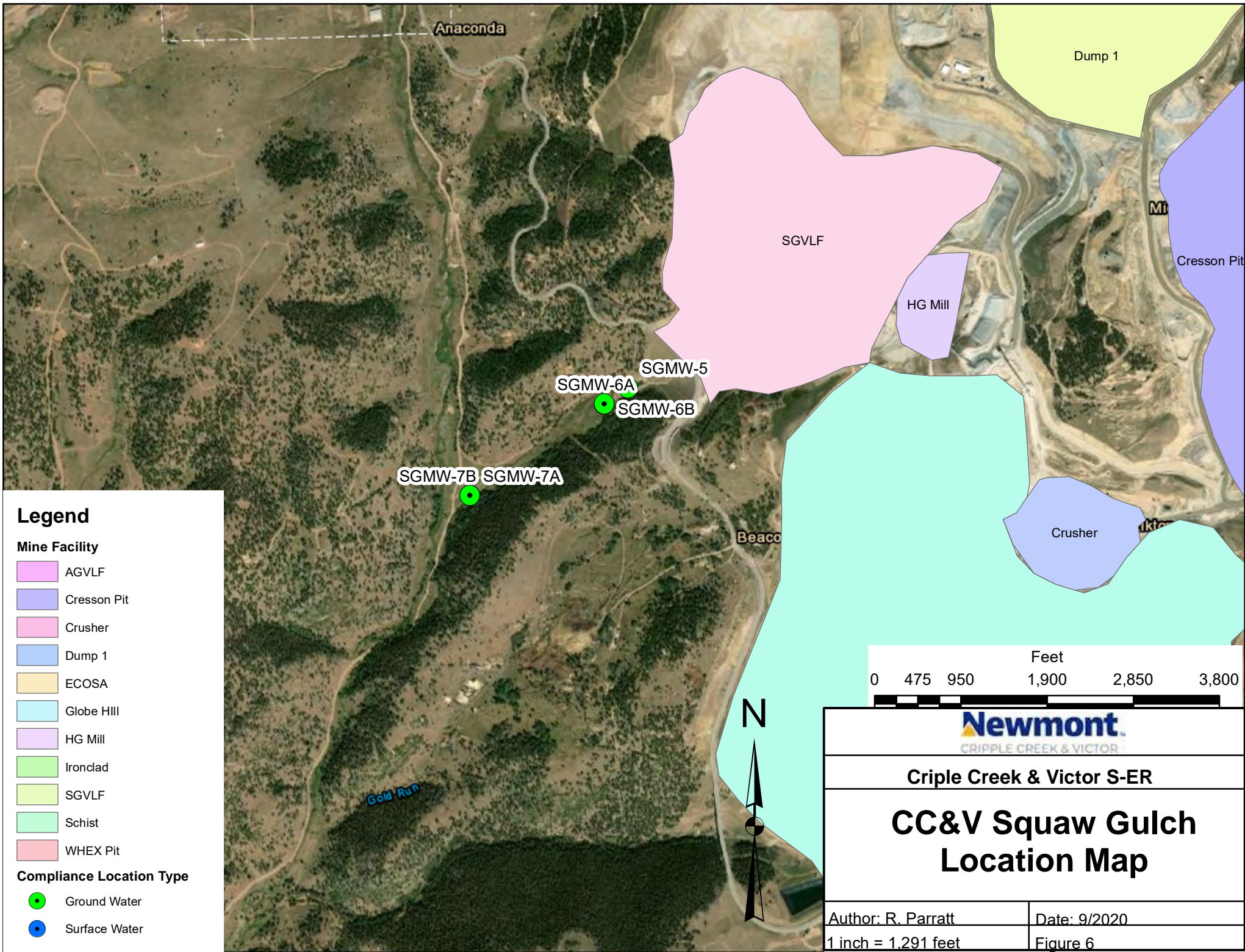




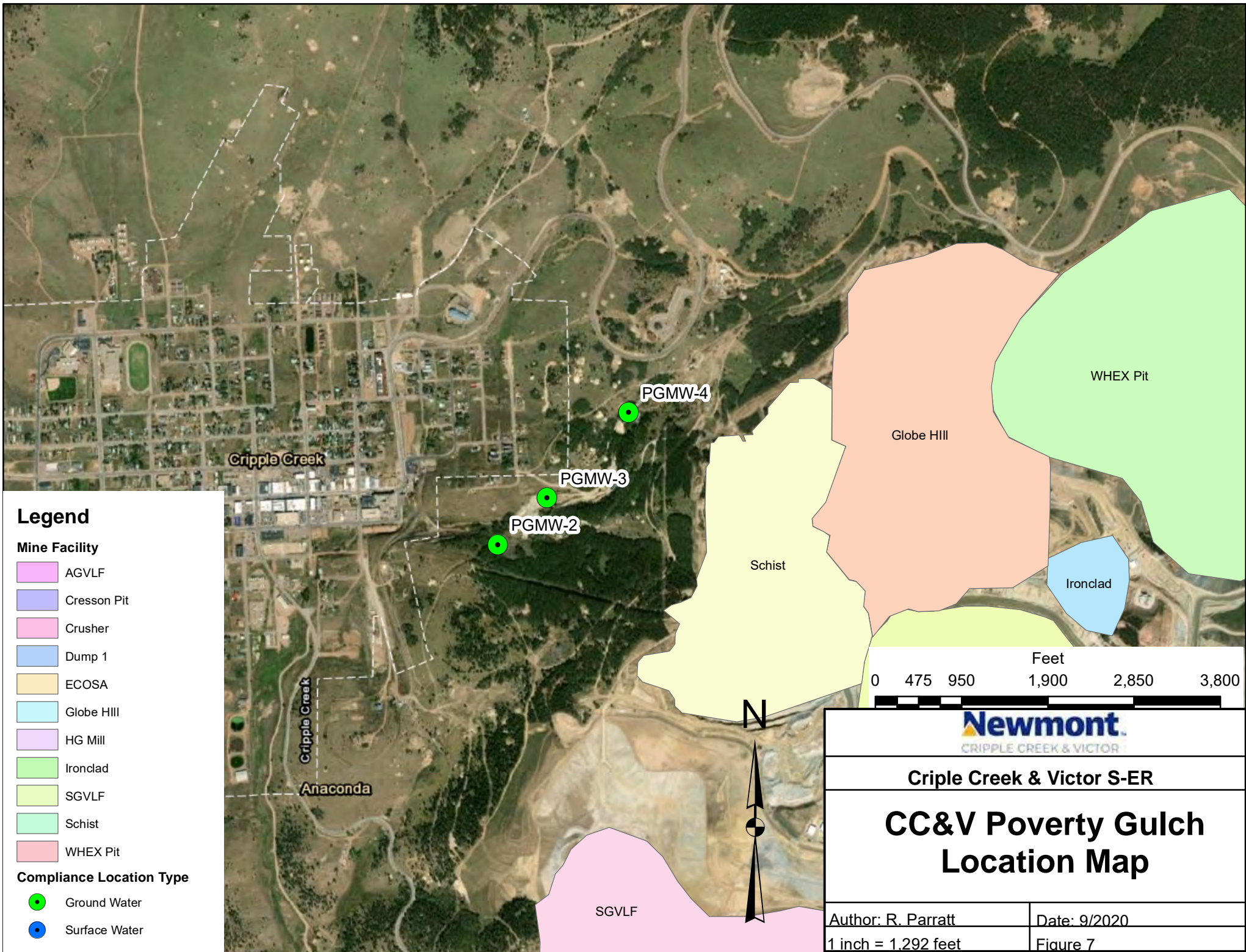












## Field Sheets

## Groundwater Sampling Log

CCV

11-4-20

Gannon McCormick

4

26.  $\phi$

CRMW 3B

[illegible]

grab

1

~~Time End:~~

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	24.5 feet		

Y/N

Y/N

Y/N

3 Rinse

*[Signature]*

## Clear + Cool



## Groundwater Sampling Log

Well ID: CRMW - 3C

**Weather:**

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV

Date: 10-20-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 197.3

Well ID: CRMW-5A

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
928	1.3	6.18	734.9	7.6	1.76	
933	1.4	6.44	730.4	7.9	1.76	
938	1.8	6.79	729.9	8.1	2.06	
943	2.1	6.89	720	9.8	2.27	
948	2.3	7.06	718	11.7	2.57	
953	2.2	7.17	721	11.6	2.81	
958	2.3	7.21	719	11.5	3.01	1L/4min
						final

Sample Method:

low flow

Rate (gpm):

0.07

Time Start: 928

Time End: 1000

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet	<u>199.6</u>	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used:

3 RINSE

Signature:

Weather:

PC + cool

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV

Date: 10-20-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 34.2

Well ID: CRMW-5B

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
10:18	0.6	7.48	451.7	7.5	1.53	
10:23	0.5	7.23	458.9	7.7	0.23	
10:28	0.6	7.26	452.2	7.9	0.20	141405 Final

Sample Method:

lowflow

Rate (gpm): 0.40 Time Start: 1018 Time End: 1030

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet	<u>34.8</u>	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used:

Dedicated pump / 3rinse

Signature: [Signature]

Weather: PC + cool



## Groundwater Sampling Log

Location : CCV

Date: 10-7-20

Technician: Gannon McFormick

Quarter: 4

Static Water Level: 32.7

Well ID: CRMW-3A

[illegible]

**Sample Method:**                      **Rate (gpm):**            **Time Start:**            **Time End:**           

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

**Decontamination procedure used:**

**Signature:**

**Weather:**

- well smells rancid
- lowest pump setting
- shuts itself off.

## Groundwater Sampling Log

Well ID: CRMW-5C

**Weather:**

## Groundwater Sampling Log

Date: 10-20-20

Quarter: 4

Well ID: CRMW-5D

[illegible]

**Sample Method:** \_\_\_\_\_ **Rate (gpm):** \_\_\_\_\_ **Time Start:** \_\_\_\_\_ **Time End:** \_\_\_\_\_

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: ☒ Y/N

**Turbid?** **Y/N**

Equipment Decontaminated: Y/N

Decontamination procedure used:

**Signature:**

**Weather:**



## Groundwater Sampling Log

**Location :**

CCV

Date:

10-29-26

**Technician:**

Fiannon McCormick

Quarter:

4

**Static Water Level:**

178.8 ft

Well ID:

ESPMW-1

[illegible]

**Sample Method:**

**Rate (gpm):**

**Time Start:**

Time End:

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible:

Y/N

### Turbid?

Y/N

~~Equipment Decontaminated:~~

Y/N

Decontamination procedure used:

**Signature:**

**Weather:**

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV

Date: 10-13-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 158.8

Well ID: GVMW-8A

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
9:45	0.6	5.97	429.2	7.4	3.55	
9:50	0.4	6.07	428.9	8.0	3.11	
9:55	0.4	6.24	426.9	8.4	2.69	
10:00	0.4	6.29	426.3	8.5	2.43	
10:05	0.4	6.39	415.5	8.6	1.80	
10:10	0.4	6.43	414.2	8.6	1.44	1L/50s final

Sample Method: low flow Rate (gpm): 0.15 Time Start: 945 Time End: 1010

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used:

Dedicated Pump

Signature:

Gannon McCormick

Weather:

## Groundwater Sampling Log

CCV

10-13-26

Gannon McCormick

4

44.8

GVMW-8B

pumped  
DRY

Time End:

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Y/N

Y/N

Y/N

100

*Jannon McCormick*

\_\_\_\_\_



Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV

Date: 10-12-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 3.5 ft

Well ID: GVMW22A

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
9:38	3.2	7.09	381.5	7.3	0.64	lowest pump setting
9:47	3.5	7.20	383.4	7.0	0.54	
9:45	4.1	7.34	383.3	7.3	0.50	14/105s
9:50	4.6	7.39	380.9	7.6	0.49	
9:55	4.7	7.44	382.2	7.9	0.46	final

Sample Method: low flow Rate (gpm): 0.15 Time Start: 938 Time End: 955

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: 3 Rinse

Signature: [Signature]

Weather: clear + cold

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co  
Groundwater Sampling Log

Location: CCV Date: 10-12-20  
Technician: Gannon McCormick Quarter: 4  
Static Water Level: 4.9 ft Well ID: GVMW 22B

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
857	1.1	6.18	446.6	6.8	0.43	
903	1.0	6.06	435	6.7	0.18	lowest pump speed
908	0.9	6.11	412.4	6.8	0.47	14/50s
913	0.9	6.17	402	6.8	0.48	final

Sample Method: low flow Rate (gpm): 0.32 Time Start: 857 Time End: 913

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp°C	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet	<u>5.8</u>	

O/G visible: Y/N Turbid? Y/N  
Equipment Decontaminated: Y/N  
Decontamination procedure used: 3 rinses

Signature: [Signature]  
Weather: Clear + Cold

## Groundwater Sampling Log

Date: 10-12-20

Quarter: 4

Well ID: GVMW-25

[illegible]

Sample Method: low flow Rate (gpm): \_\_\_\_\_ Time Start: 1045 Time End: \_\_\_\_\_

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Turbid? Y/N

Turbid? Y/N

*[Handwritten signature]*

Clear + Cool



## Groundwater Sampling Log

Date: 10-6-20

Quarter: 4

Well ID: *PG MW-2*

PRY

**Sample Method:**  **Rate (gpm):**  **Time Start:**  **Time End:**

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N Turbid? Y/N

Equipment Decontaminated: Y/N

**Decontamination procedure used:**

**Signature:**

**Weather:**

## Groundwater Sampling Log

[illegible]

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Signature:   
Weather: Clear + warm

Pump @ max setting, won't pump out water.

## Groundwater Sampling Log

Date: 10-6-20

Quarter: 4

Well ID: PGMW-4

**Sample Method:** **Rate (gpm):** **Time Start:** **Time End:**

**Weather:**

ClearV+ Warm



## Groundwater Sampling Log


Date: 10-19-20

Quarter: 4

Well ID: SGMW-5

Sample Method: \_\_\_\_\_ Rate (gpm): \_\_\_\_\_ Time Start: \_\_\_\_\_ Time End: \_\_\_\_\_

O/G visible:	Y/N	Turbid?	Y/N
Equipment Decontaminated:	Y/N		
Decontamination procedure used:			

Signature:   
Weather: partly clear + cool

## Groundwater Sampling Log

Date: 10-19-20

Quarter: 4

Well ID: 5GmW-63A

[illegible]

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Turbid? Y/N

**Decontamination procedure used:**

**Weather:**

PT + cool

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co  
Groundwater Sampling Log

Location: CCV

Date: 10-19-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 5.8 ft

Well ID: SGMW-6B

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
10:02	21.1	6.12	2221	9.3	0.19	acidic + turbid
10:07	21.6	5.97	2183	9.6	0.29	
10:12	21.9	6.01	1843	10.0	0.20	
10:17	23.0	6.02	1229	11.0	0.23	became less turbid
10:22	23.0	6.08	1263	11.2	0.40	500ml / 2.5min
10:26	23.1	6.08	1280	11.2	0.43	final

Sample Method: low flow Rate (gpm): 0.05 Time Start: 10:02 Time End: 10:26

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp°C	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: Dedicated Pump

Signature: [Signature]

Weather: PC + cool

\* strange drawdown



## Groundwater Sampling Log

Date: 10-19-201

Quarter: 4

Well ID: SGMW-7A

[illegible]

**Sample Method:** **Rate (gpm):** **Time Start:** **Time End:**

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Turbid? Y/N

Turbid? Y/N

Decontamination procedure used:

**Weather:**

partly cloudy + cool

## Groundwater Sampling Log

Date: 10-19-20

Quarter: 4

Well ID: SGMW-7B

[illegible]

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

~~Turbid?~~ Y/N

~~Turbid?~~ Y/N

Y/N

~~\_\_\_\_\_~~

~~July~~ mostly cloudy + cool

pump @ 1v1 399.94  
no pumping / flow  
DRY!

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV

Date: 10-22-20

Technician: Gannon McCormick

Quarter: 4

Static Water Level: 260ft

Well ID: VIN-2A

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
1145						
<del>INSUFFICIENT TO PUMP</del>						

Sample Method: \_\_\_\_\_ Rate (gpm): \_\_\_\_\_ Time Start: \_\_\_\_\_ Time End: \_\_\_\_\_

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp°C	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: \_\_\_\_\_

Signature: [Signature]

Weather: Clear + Cool



Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV Date: 10-22-20  
Technician: Gannon McCormick Quarter: 4  
Static Water Level: 90.3 Well ID: VIN-2B

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/L)	Notes
1058	13.0	6.42	1431	6.5	2.50	
1103	13.2	6.57	1428	6.6	2.00	1L/655
1108	13.0	6.66	1425	6.7	1.92	

Sample Method: low flow Rate (gpm): \_\_\_\_\_ Time Start: 1058 Time End: 1108

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N Turbid? Y/N  
Equipment Decontaminated: Y/N  
Decontamination procedure used: 3 Rinse

Signature: [Signature]  
Weather: MC + COOL

## Groundwater Sampling Log

Date: 10-14-20  
Quarter: 4  
Well ID: wcmw-3

low flow Rate (gpm): 0.18 Time Start: 1250 Time End: 105

O/G visible: Y/N Turbid? Y/N  
Equipment Decontaminated: Y/N  
Decontamination procedure used: 3 bucket

**Weather:**

Clear + Warm

Newmont Mining Co  
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : CCV Date: 10-14-20  
Technician: Gannon McCormick Quarter: 4  
Static Water Level: 9.7 ft Well ID: WCMW-6

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (%/mg/L)	Notes
11:31	1.6	6.68	381.1	11.2	0.15	pump lvl @ 27
11:36	3.7	6.57	381.2	11.1	0.04	" @ 25
11:40	3.7	6.65	378.3	11.9	0.03	" @ 24
11:45	4.0	6.77	378.3	12.3	0.01	" @ 22
11:50	4.0	6.74	376.9	12.1	0.01	" @ 22 final
						1L/min

Sample Method: low flow Rate (gpm): 0.26 Time Start: 1131 Time End: 1150

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp©	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N Turbid? Y/N  
Equipment Decontaminated: Y/N  
Decontamination procedure used: 3 bucket

Signature: \_\_\_\_\_  
Weather: Clear + Warm + Windy



## Groundwater Sampling Log

CCV

10-20-20

Gannon McCormick

4

DRY

AG 20

[illegible]

**Sample Method:**

**Rate (gpm):**

**Time Start:**

**Time End:**

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible:

Y/N

~~Turbid?~~

Y/N

**Equipment Decontaminated:**

~~Y/N~~

**Decontamination procedure used:**

**Signature:**

**Weather:**

mc + cool

## Groundwater Sampling Log

**Date:** 10-6-20

Quarter: 4

Well ID: GV-02

[illegible]

**Sample Method:** **Rate (gpm):** **Time Start:** **Time End:**

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

Turbid? Y/N

Equipment Decontaminated: Y/N

**Decontamination procedure used:**

**Signature:**

**Weather:**

## Groundwater Sampling Log

Date: 10-5-20

Quarter: 4

Well ID: GV-03

DRY

**Sample Method:** **Rate (gpm):** **Time Start:** **Time End:**

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

O/G visible: Y/N Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: \_\_\_\_\_

Signature: \_\_\_\_\_

Weather: clear + cool

## Groundwater Sampling Log

Date: 10-5-20

Quarter: 4

Well ID: TZ

DRY

**Sample Method:** \_\_\_\_\_ **Rate (gpm):** \_\_\_\_\_ **Time Start:** \_\_\_\_\_ **Time End:** \_\_\_\_\_

Final Parameters	Stabilization Guidance	Met?	Comments
pH	0.1	Y/N	
Conductivity	3%	Y/N	
Temp@	10%	Y/N	
DO (mg/L)	10%	Y/N	
Final H2O level	feet		

**Decontamination procedure used:**

**Weather:**

clear + cool



## Groundwater Sampling Log

Date: 10-14-20

Quarter: 4

Well ID: WC5W-01

DRY!

Rate (gpm): \_\_\_\_\_ Time Start: \_\_\_\_\_

Final Parameters		Stabilization Guidance		Met?
pH		0.1	Y/N	
Conductivity		3%	Y/N	
Temp@		10%	Y/N	
DO (mg/L)		10%	Y/N	
Final H2O level		feet		

Turbid? Y/N

Turbid? Y/N

procedure used: Handwritten: Clear + Cool

Clear & Cool

Clear & Cool

# Groundwater

SAMPLE LOCATION : CRMW 3A-35Collar Elv (ft) : N/AReporting Period 2020 4th Qtr**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/07/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Insufficient Water T
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SAMPLE LOCATION : CRMW 3B-63

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0K0088-01
Sample Date	-	11/04/2020
Lab Test Date	-	11/17/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-9.00	7.23
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	0.204
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0378
Beryllium - Dissolved (mg/L)	0.0040	0.000297
Boron - Dissolved (mg/L)	0.7500	0.0751
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	385
Chloride - Total (mg/L)	---	378
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.0551
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	0.0066
Cyanide - WAD (mg/L)	0.2000	<0.0100
Fluoride - Total F (mg/L)	2.0000	3.34
Iron - Dissolved (mg/L)	14.0000	0.546
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	0.119
Manganese - Dissolved (mg/L)	8.1000	27.9
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.0521
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.199
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.199
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	121
Sulfate - Total (mg/L)	1070.00	828
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	2290
Total Suspended Solids (mg/L)	---	31.0
Uranium - Dissolved (mg/L)	0.0300	0.0341
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	0.0996



SAMPLE LOCATION : CRMW 3C-124

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0K0088-02
Sample Date	-	11/04/2020
Lab Test Date	-	11/17/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	7.25
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	0.305
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0106
Beryllium - Dissolved (mg/L)	0.0040	0.00189
Boron - Dissolved (mg/L)	0.7500	0.0743
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	372
Chloride - Total (mg/L)	---	323
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.0342
Copper - Dissolved (mg/L)	0.2000	0.00125
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	0.0066
Cyanide - WAD (mg/L)	0.2000	<0.0100
Fluoride - Total F (mg/L)	2.0000	2.28
Iron - Dissolved (mg/L)	14.0000	0.155
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	0.109
Manganese - Dissolved (mg/L)	8.1000	2.86
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00436
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	1.08
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	1.08
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	97.5
Sulfate - Total (mg/L)	250.00	785
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	1880
Total Suspended Solids (mg/L)	---	5.0
Uranium - Dissolved (mg/L)	0.0300	0.0247
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	0.0433

SAMPLE LOCATION : CRMW 5A-205

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0411-01
Sample Date	-	10/20/2020
Lab Test Date	-	11/02/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	7.21
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0512
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	0.0659
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	88.9
Chloride - Total (mg/L)	---	12.8
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.00377
Copper - Dissolved (mg/L)	0.2000	0.00344
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	0.0052
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.07
Fluoride - Total F (mg/L)	2.0000	1.93
Iron - Dissolved (mg/L)	14.0000	<0.020
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	0.0478
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.0231
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.347
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.347
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	34.1
Sulfate - Total (mg/L)	250.00	171
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	413
Total Suspended Solids (mg/L)	---	48.0
Uranium - Dissolved (mg/L)	0.0300	0.0771
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

SAMPLE LOCATION : CRMW 5B-143

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0411-02
Sample Date	-	10/20/2020
Lab Test Date	-	11/02/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	7.26
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0197
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	60.0
Chloride - Total (mg/L)	---	10.6
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.00253
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.40
Fluoride - Total F (mg/L)	2.0000	2.97
Iron - Dissolved (mg/L)	14.0000	<0.020
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	0.293
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00378
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	<0.050
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	<0.100
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	13.3
Sulfate - Total (mg/L)	250.00	80.4
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	244
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	0.00747
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

SAMPLE LOCATION : CRMW 5C-60

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0411-03
Sample Date	-	10/20/2020
Lab Test Date	-	11/02/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	6.63
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0069
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	30.6
Chloride - Total (mg/L)	---	7.40
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	<0.00100
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.36
Fluoride - Total F (mg/L)	2.0000	3.10
Iron - Dissolved (mg/L)	14.0000	<0.020
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	<0.0080
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	<0.00100
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.105
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.105
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	9.90
Sulfate - Total (mg/L)	250.00	51.6
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	146
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	<0.00100
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100



SAMPLE LOCATION : CRMW 5D-27 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/20/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION :                 ESPMW                 Collar Elv (ft) :                 N/A                 Reporting Period                 2020 4th Qtr                

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/29/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	DRY
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SAMPLE LOCATION : GVMW 8A-250Collar Elv (ft) : N/AReporting Period 2020 4th Qtr**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0282-01
Sample Date	-	10/13/2020
Lab Test Date	-	10/28/2020
Sampled By	-	GM

pH Field (pH unit)	6.50-8.50	6.43
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0041
Beryllium - Dissolved (mg/L)	0.0040	0.000213
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	43.6
Chloride - Total (mg/L)	---	39.2
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	<0.00100
Copper - Dissolved (mg/L)	0.2000	0.00315
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.15
Fluoride - Total F (mg/L)	2.0000	2.17
Iron - Dissolved (mg/L)	14.0000	<0.020
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	1.0000	0.0207
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00289
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.899
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.899
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	23.8
Sulfate - Total (mg/L)	250.00	69.6
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	298
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	0.00352
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

SAMPLE LOCATION : GVMW 8B-50 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/13/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : GVMW 22A-70 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0248-01
Sample Date	-	10/12/2020
Lab Test Date	-	10/27/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	7.44
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0950
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	29.0
Chloride - Total (mg/L)	---	4.06
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	<0.00100
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.15
Fluoride - Total F (mg/L)	2.0000	2.17
Iron - Dissolved (mg/L)	14.0000	0.070
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	0.0080
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00973
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.154
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.154
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	35.3
Sulfate - Total (mg/L)	250.00	30.3
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	186
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	0.00340
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100



SAMPLE LOCATION : GVMW 22B-30 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0248-02
Sample Date	-	10/12/2020
Lab Test Date	-	10/27/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	6.17
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0468
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	35.4
Chloride - Total (mg/L)	---	7.61
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	<0.00100
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0500
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.32
Fluoride - Total F (mg/L)	2.0000	0.390
Iron - Dissolved (mg/L)	14.0000	0.028
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	0.0728
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	<0.00100
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	0.387
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	0.387
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	23.5
Sulfate - Total (mg/L)	250.00	89.5
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	244
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	0.00108
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

SAMPLE LOCATION : GVMW-25 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/12/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : PGMW-2 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/06/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : PGMW-3 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/08/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : PGMW-4 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/06/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : SGMW-5 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/19/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : SGMW 6A-400Collar Elv (ft) : N/AReporting Period 2020 4th Qtr**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/19/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : SGMW 6B-60

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0368-01
Sample Date	-	10/19/2020
Lab Test Date	-	11/02/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-8.50	6.08
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	0.069
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	0.00344
Barium - Dissolved (mg/L)	2.0000	0.0111
Beryllium - Dissolved (mg/L)	0.0040	0.0535
Boron - Dissolved (mg/L)	0.7500	0.105
Cadmium - Dissolved (mg/L)	0.0050	0.000359
Calcium - Dissolved (mg/L)	---	397
Chloride - Total (mg/L)	---	142
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.0156
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.05
Fluoride - Total F (mg/L)	2.0000	7.70
Iron - Dissolved (mg/L)	14.0000	11.9
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	3.0000	6.51
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.0128
Nickel - Dissolved (mg/L)	0.2000	0.0234
Nitrate as Nitrogen (mg/L)	10.0000	<0.050
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	<0.100
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	54.4
Sulfate - Total (mg/L)	250.00	922
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	1660
Total Suspended Solids (mg/L)	---	45.0
Uranium - Dissolved (mg/L)	0.0300	0.00255
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	0.0882

SAMPLE LOCATION : SGMW 7A-400 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/19/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : SGMW 7B-60 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/19/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Insufficient To Pump
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SAMPLE LOCATION : VIN 2A-270Collar Elv (ft) : N/AReporting Period 2020 4th Qtr**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/22/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Insufficient to Pump
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SAMPLE LOCATION : VIN 2B-140

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0462-01
Sample Date	-	10/22/2020
Lab Test Date	-	11/03/2020
Sampled By	-	GM

pH Field (pH unit)	6.50-8.50	6.66
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0100
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	201
Chloride - Total (mg/L)	---	9.51
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.00754
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.24
Fluoride - Total F (mg/L)	2.0000	0.133
Iron - Dissolved (mg/L)	14.0000	0.803
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	4.0000	3.32
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00350
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	<0.050
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	<0.100
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	35.0
Sulfate - Total (mg/L)	800.00	720
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	1110
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	<0.00100
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

SAMPLE LOCATION : WCMW 3-134

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0315-02
Sample Date	-	10/14/2020
Lab Test Date	-	10/29/2020
Sampled By	-	GM

pH Field (pH unit)	6.00-9.00	7.43
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	<0.030
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	<0.00300
Barium - Dissolved (mg/L)	2.0000	0.0579
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	0.000234
Calcium - Dissolved (mg/L)	---	51.1
Chloride - Total (mg/L)	---	1.17
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	0.00136
Copper - Dissolved (mg/L)	0.2000	0.00182
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.18
Fluoride - Total F (mg/L)	2.0000	0.756
Iron - Dissolved (mg/L)	14.0000	0.070
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	0.5000	0.0758
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00344
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	<0.050
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	<0.100
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	14.3
Sulfate - Total (mg/L)	250.00	23.7
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	244
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	0.00513
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	0.0128

SAMPLE LOCATION : WCMW 6-234

Collar Elv (ft) : N/A

Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	SVL Analytical, Inc.
Lab Reference #	-	X0J0315-01
Sample Date	-	10/14/2020
Lab Test Date	-	10/29/2020
Sampled By	-	GM

pH Field (pH unit)	6.50-8.50	6.74
Aluminium - Dissolved (mg/L)	7.0000	<0.080
Ammonia (mg/L)	---	0.077
Antimony - Dissolved (mg/L)	0.0060	<0.00300
Arsenic - Dissolved (mg/L)	0.0100	0.00363
Barium - Dissolved (mg/L)	2.0000	0.0401
Beryllium - Dissolved (mg/L)	0.0040	<0.000200
Boron - Dissolved (mg/L)	0.7500	<0.0400
Cadmium - Dissolved (mg/L)	0.0050	<0.000200
Calcium - Dissolved (mg/L)	---	43.2
Chloride - Total (mg/L)	---	2.23
Chromium - Dissolved (mg/L)	0.1000	<0.0060
Cobalt - Dissolved (mg/L)	0.0500	<0.00100
Copper - Dissolved (mg/L)	0.2000	<0.00100
Cyanide - Free (mg/L)	0.2000	<0.0050
Cyanide - Total (mg/L)	---	<0.0050
Cyanide - WAD (mg/L)	0.2000	<0.0100
Flow (gpm)	---	0.26
Fluoride - Total F (mg/L)	2.0000	1.96
Iron - Dissolved (mg/L)	14.0000	0.886
Lead - Dissolved (mg/L)	0.0500	<0.00300
Lithium - Dissolved (mg/L)	2.5000	<0.040
Manganese - Dissolved (mg/L)	0.5000	0.206
Mercury - Dissolved (mg/L)	0.00200000	<0.000200
Molybdenum - Dissolved (mg/L)	0.2100	0.00636
Nickel - Dissolved (mg/L)	0.2000	<0.0100
Nitrate as Nitrogen (mg/L)	10.0000	<0.050
Nitrite as Nitrogen (mg/L)	1.0000	<0.050
Nitrite + Nitrate as Nitrogen (mg/L)	11.0000	<0.100
No Sample Reason	---	Sample Collected
Selenium - Dissolved (mg/L)	0.0240	<0.00300
Silver - Dissolved (mg/L)	0.0500	<0.000100
Sodium - Dissolved (mg/L)	---	16.4
Sulfate - Total (mg/L)	250.00	49.9
Thallium - Dissolved (mg/L)	0.0020	<0.00100
Total Dissolved Solids (mg/L)	---	246
Total Suspended Solids (mg/L)	---	<5.0
Uranium - Dissolved (mg/L)	0.0300	<0.00100
Vanadium - Dissolved (mg/L)	0.1000	<0.0050
Zinc - Dissolved (mg/L)	2.0000	<0.0100

## Surface Water

SAMPLE LOCATION : AG 2.0 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/20/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : GV-02 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/06/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : GV-03 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/05/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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SAMPLE LOCATION : WCSW-01 Collar Elv (ft) : N/A Reporting Period 2020 4th Qtr

**Results of Profile / Analyses**

Description	Standards	4th Qtr
Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/14/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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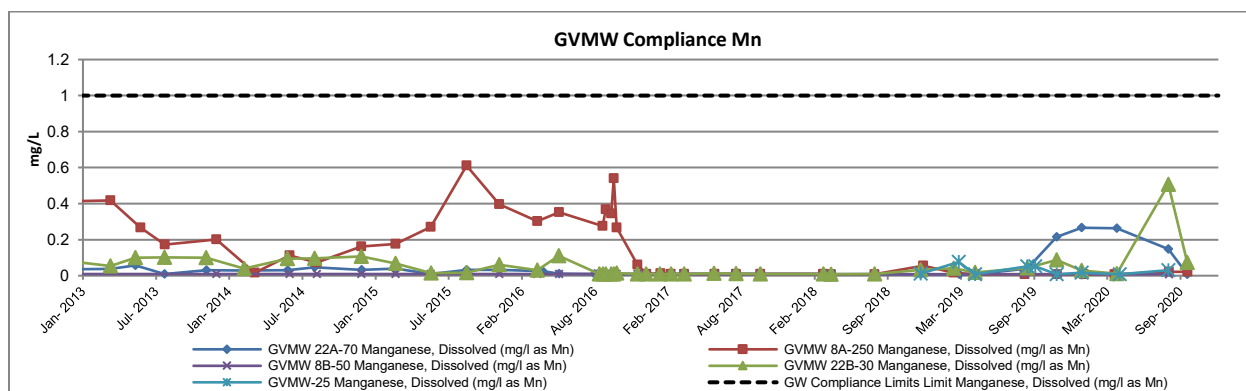
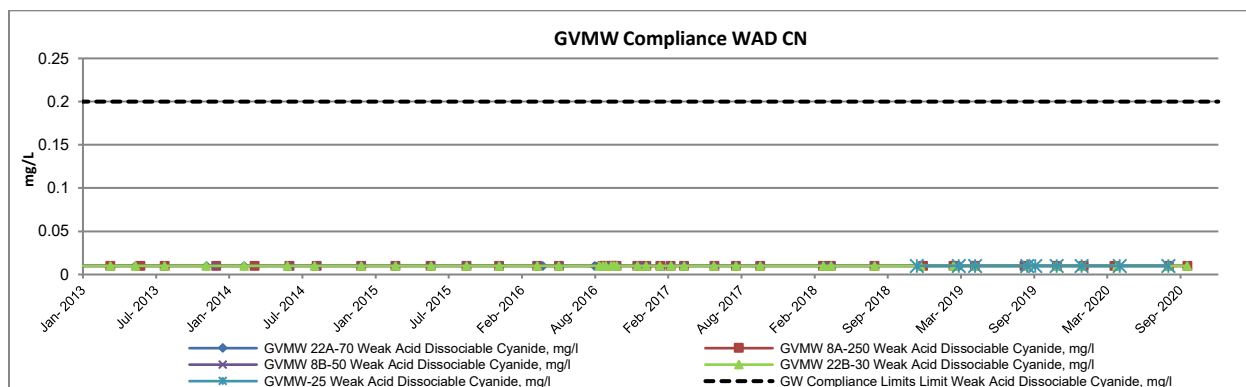
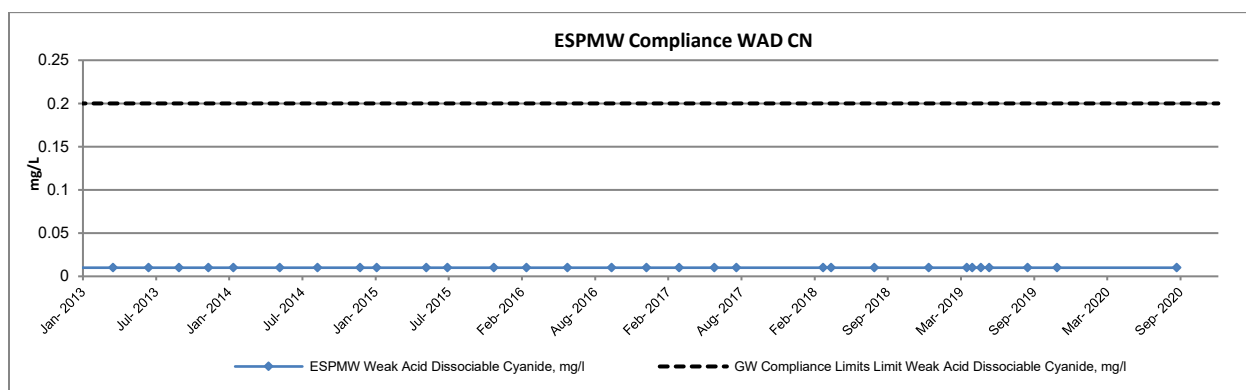
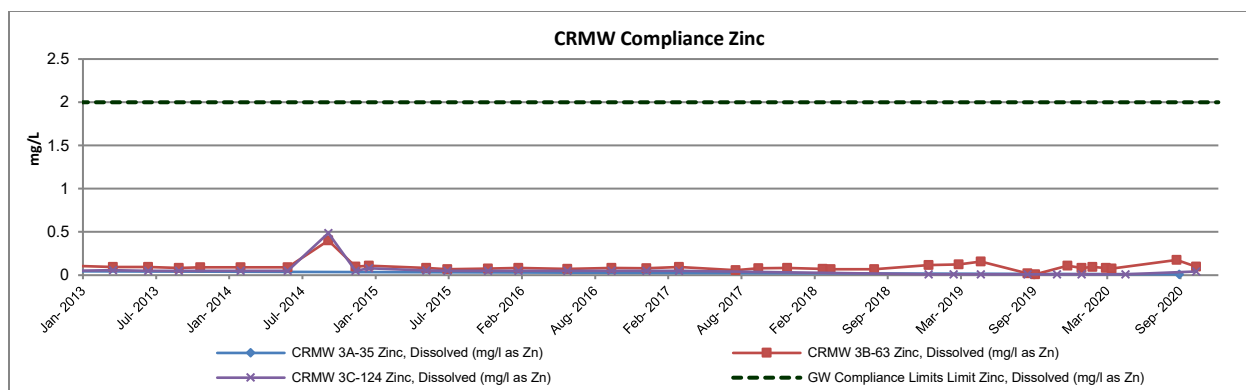
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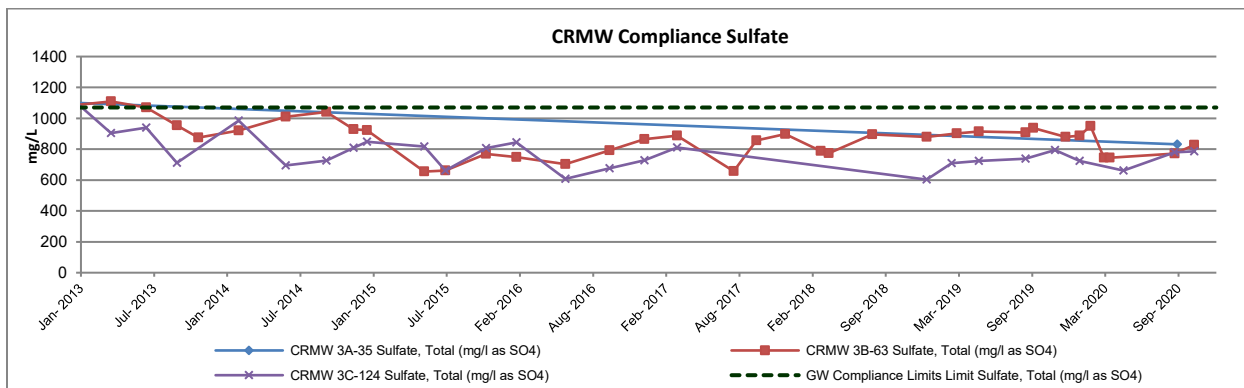
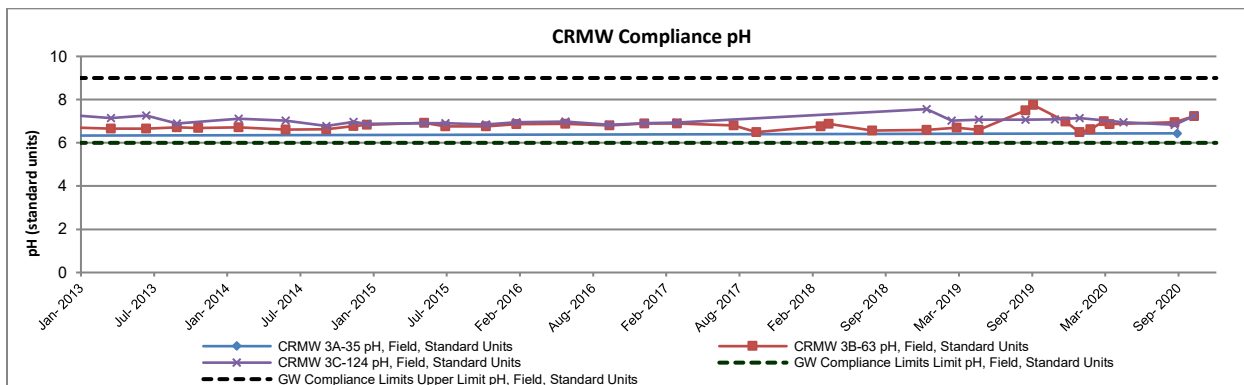
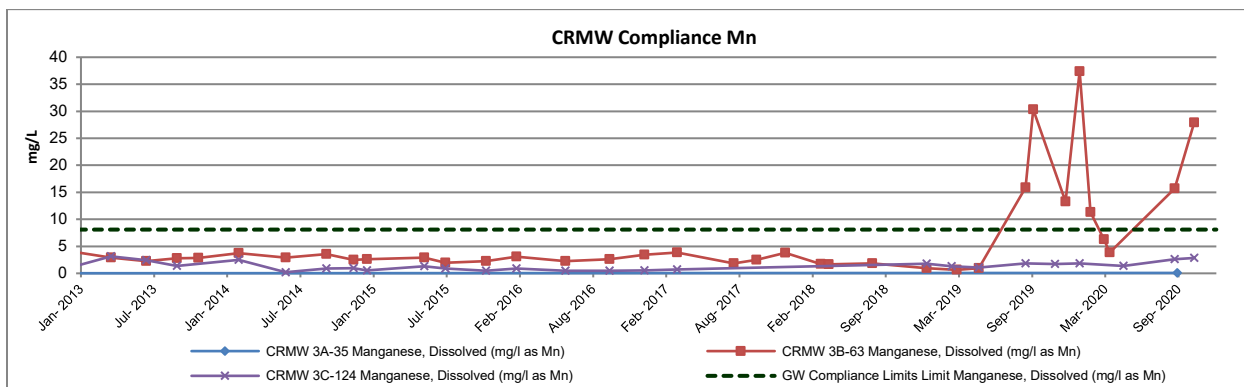
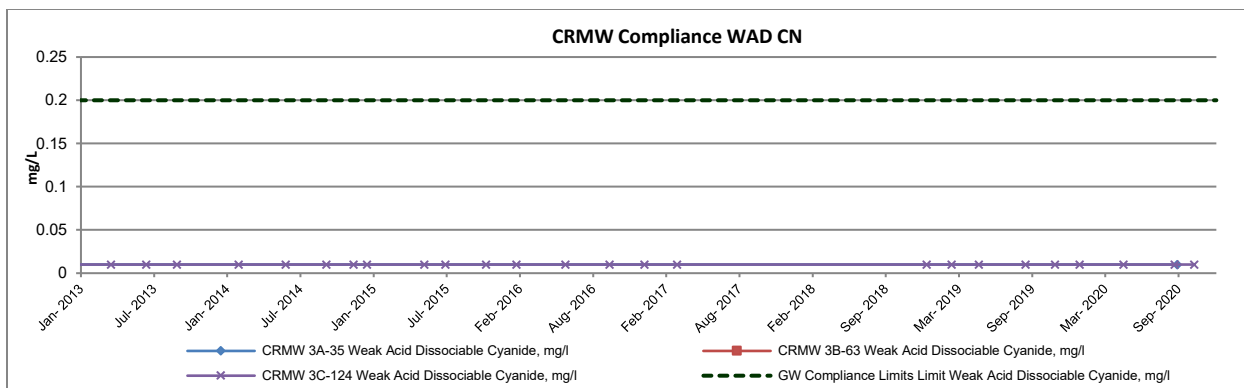
**Results of Profile / Analyses**

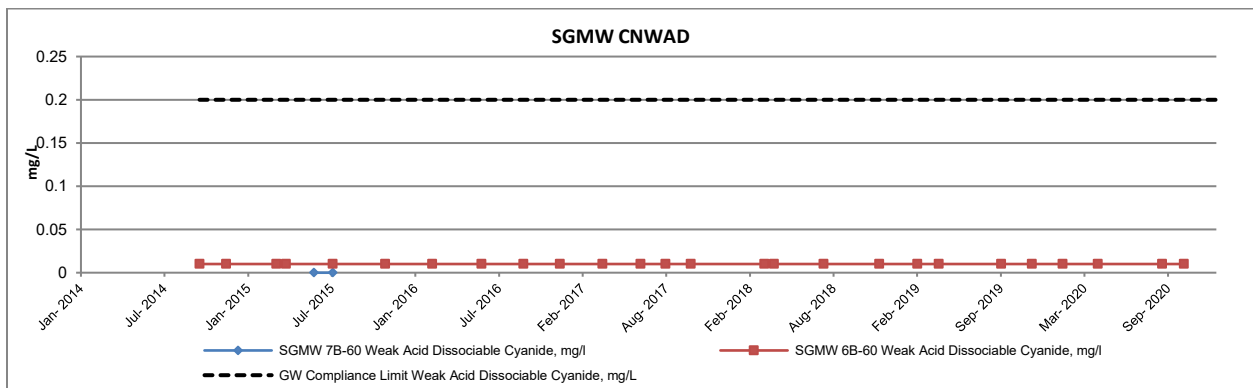
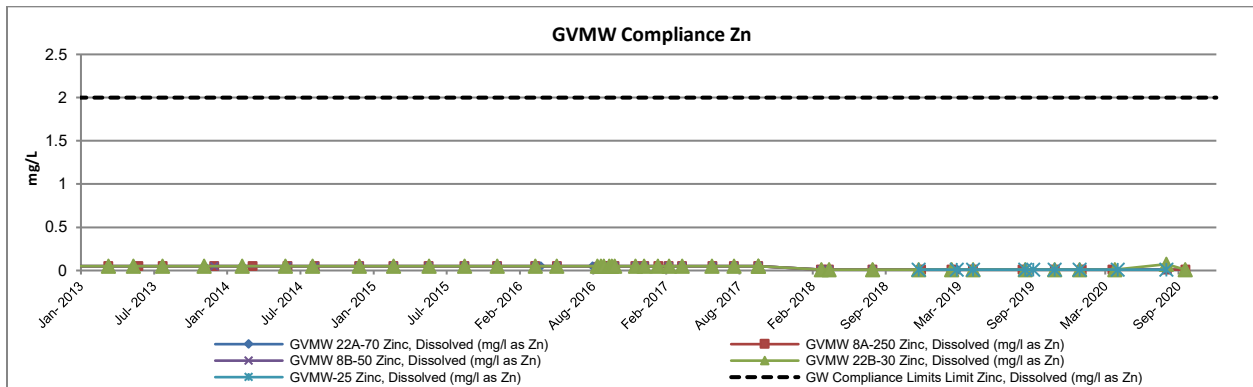
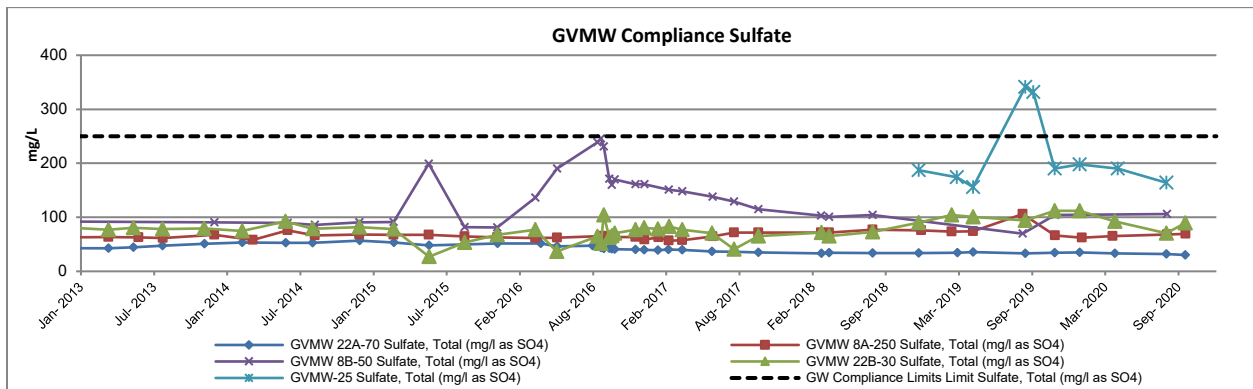
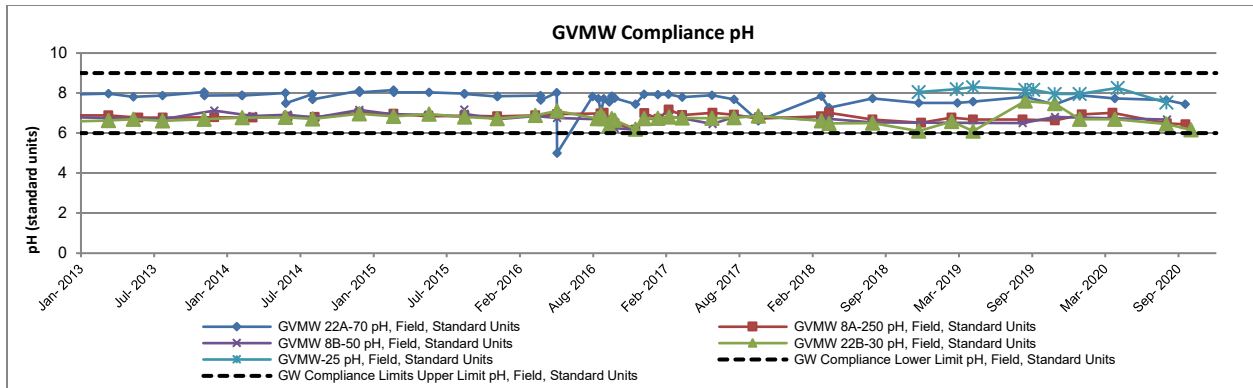
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Name of Certified Lab	(mg/L)*	Field
Lab Reference #	-	
Sample Date	-	10/05/2020
Lab Test Date	-	
Sampled By	-	GM

No Sample Reason	---	Dry
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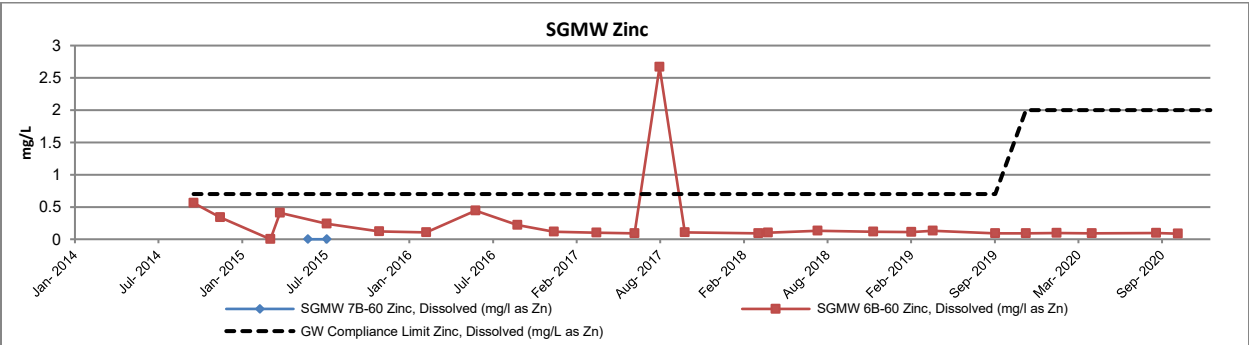
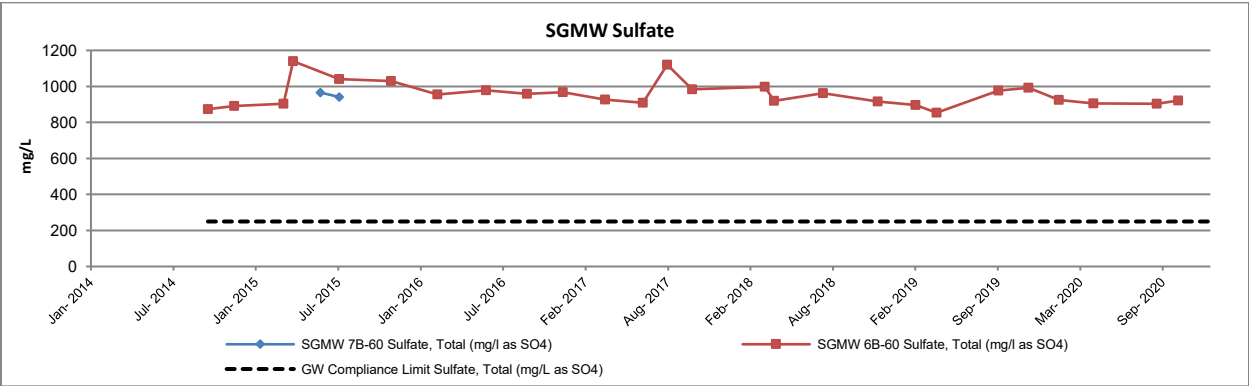
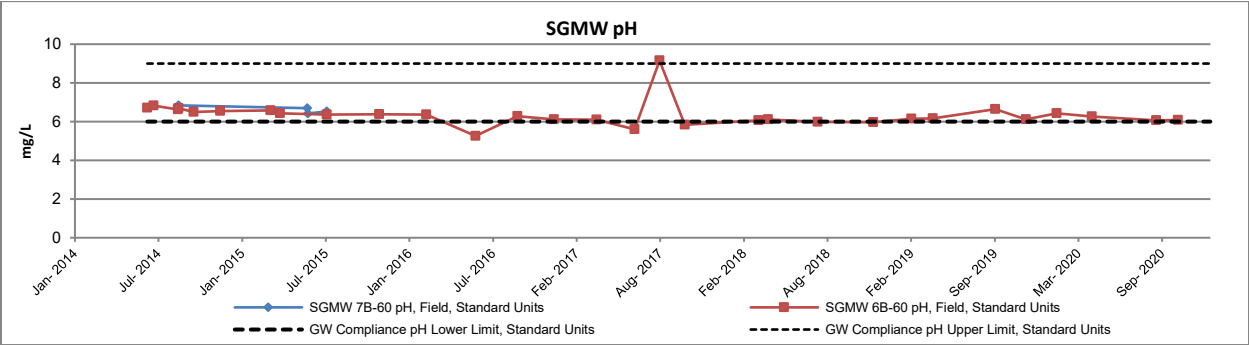
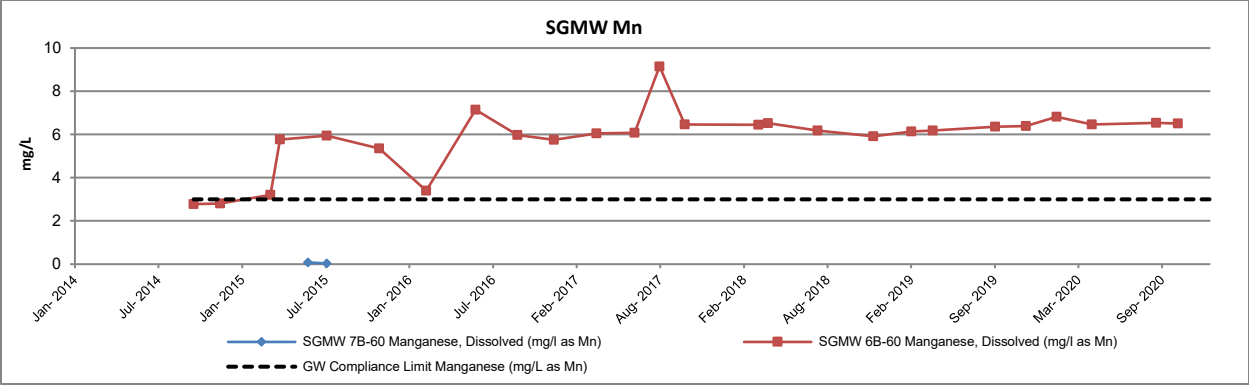
## Graphs

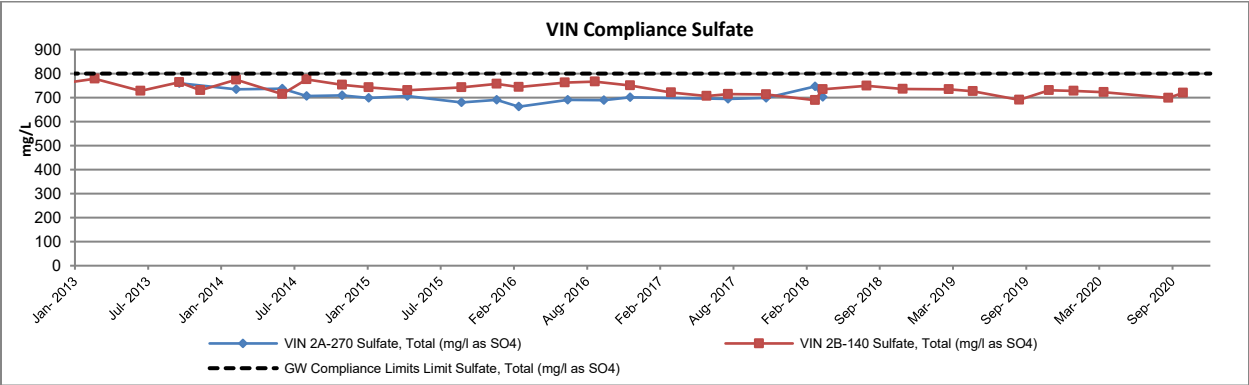
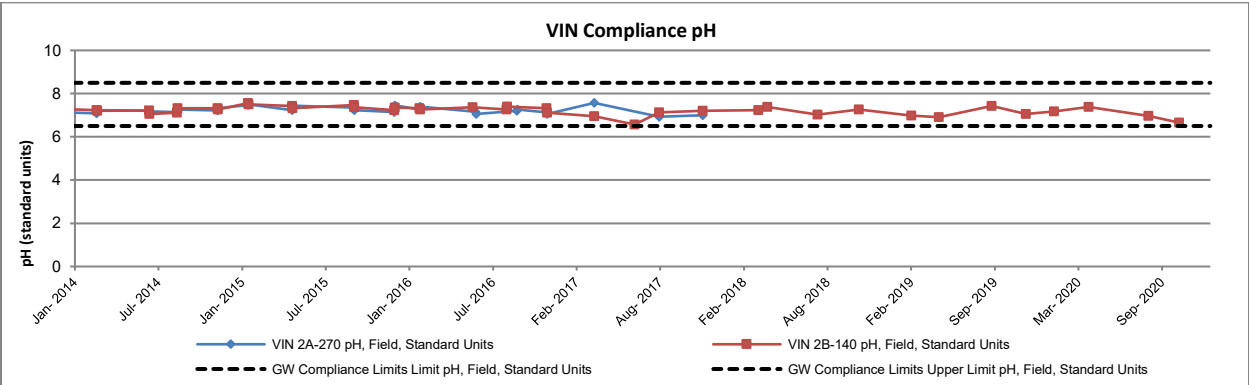
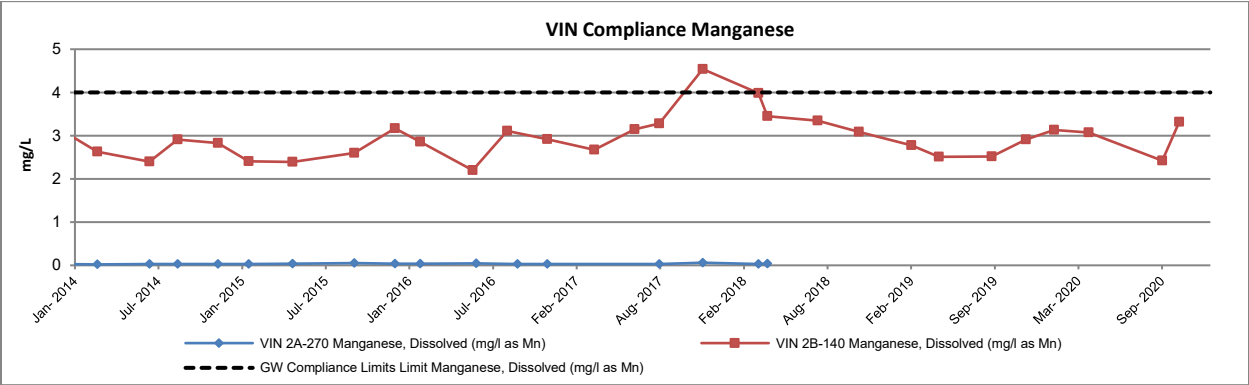
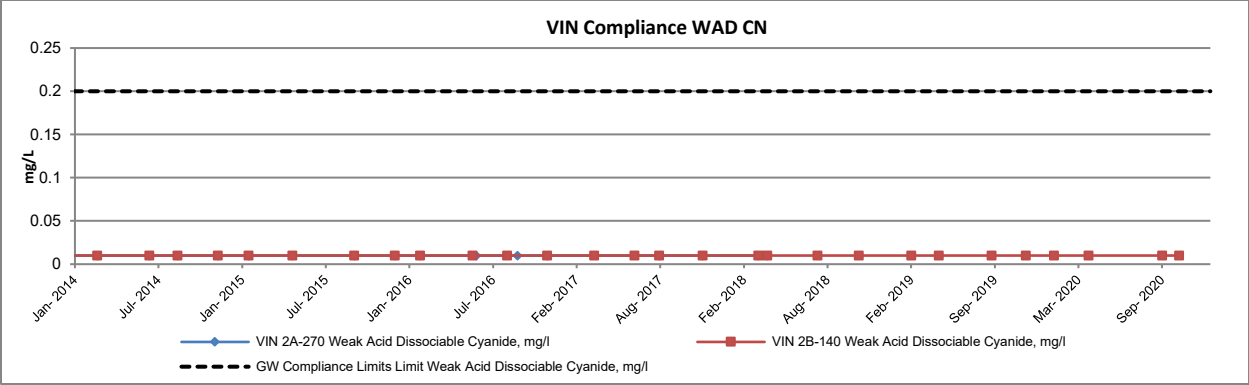


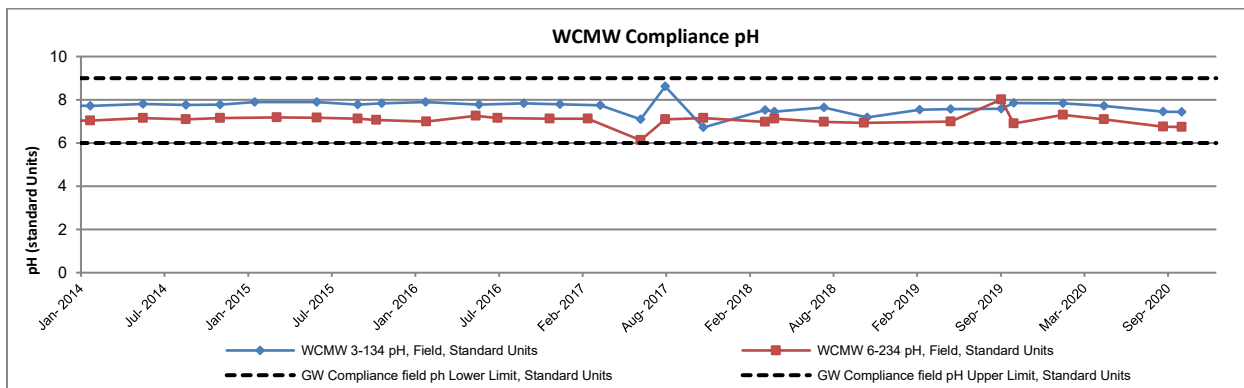
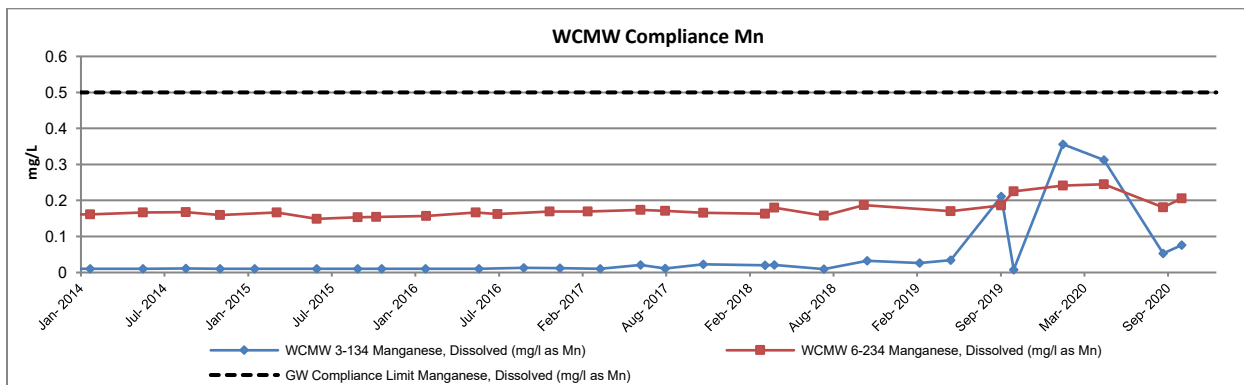
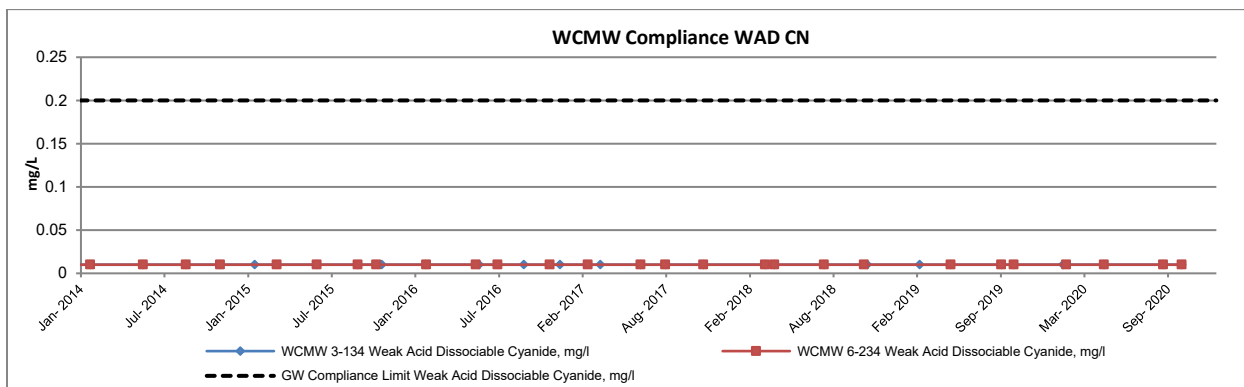
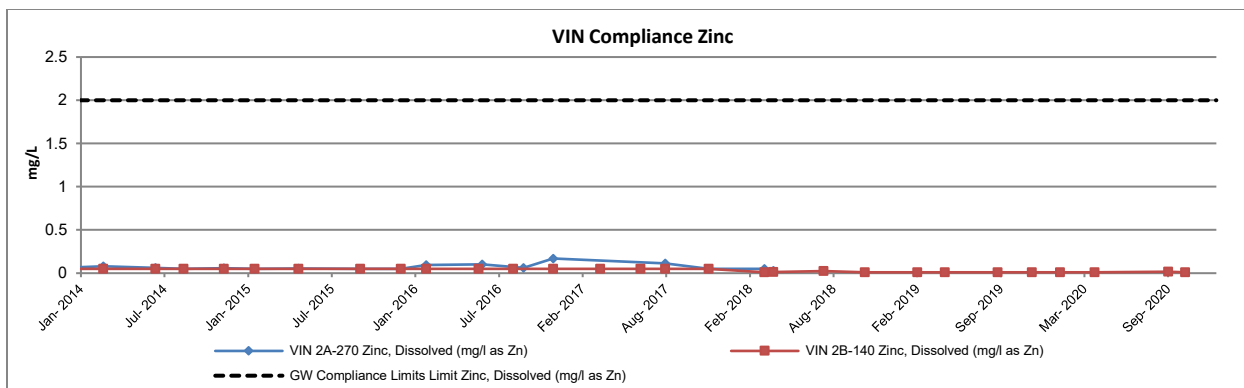


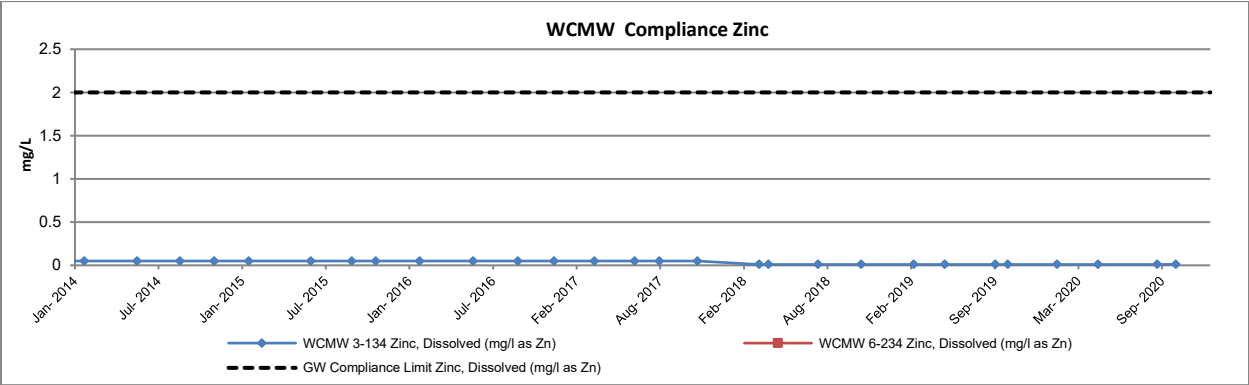
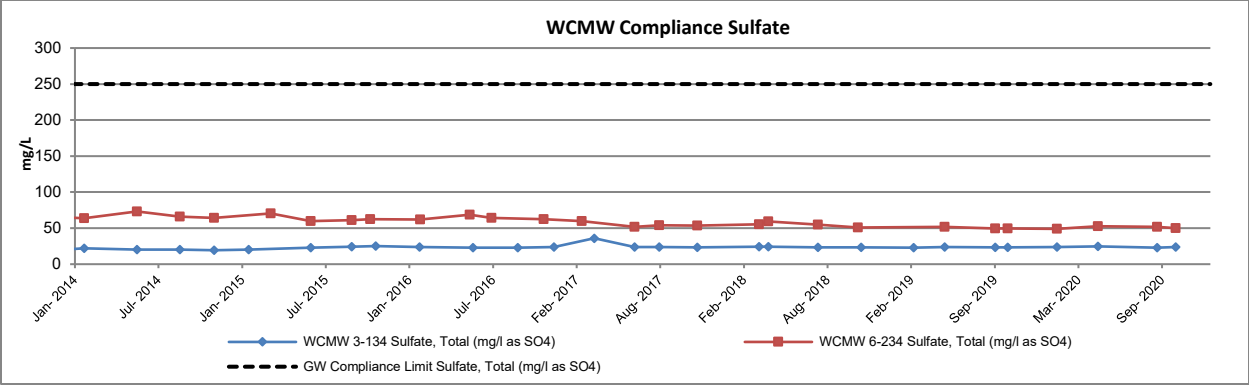




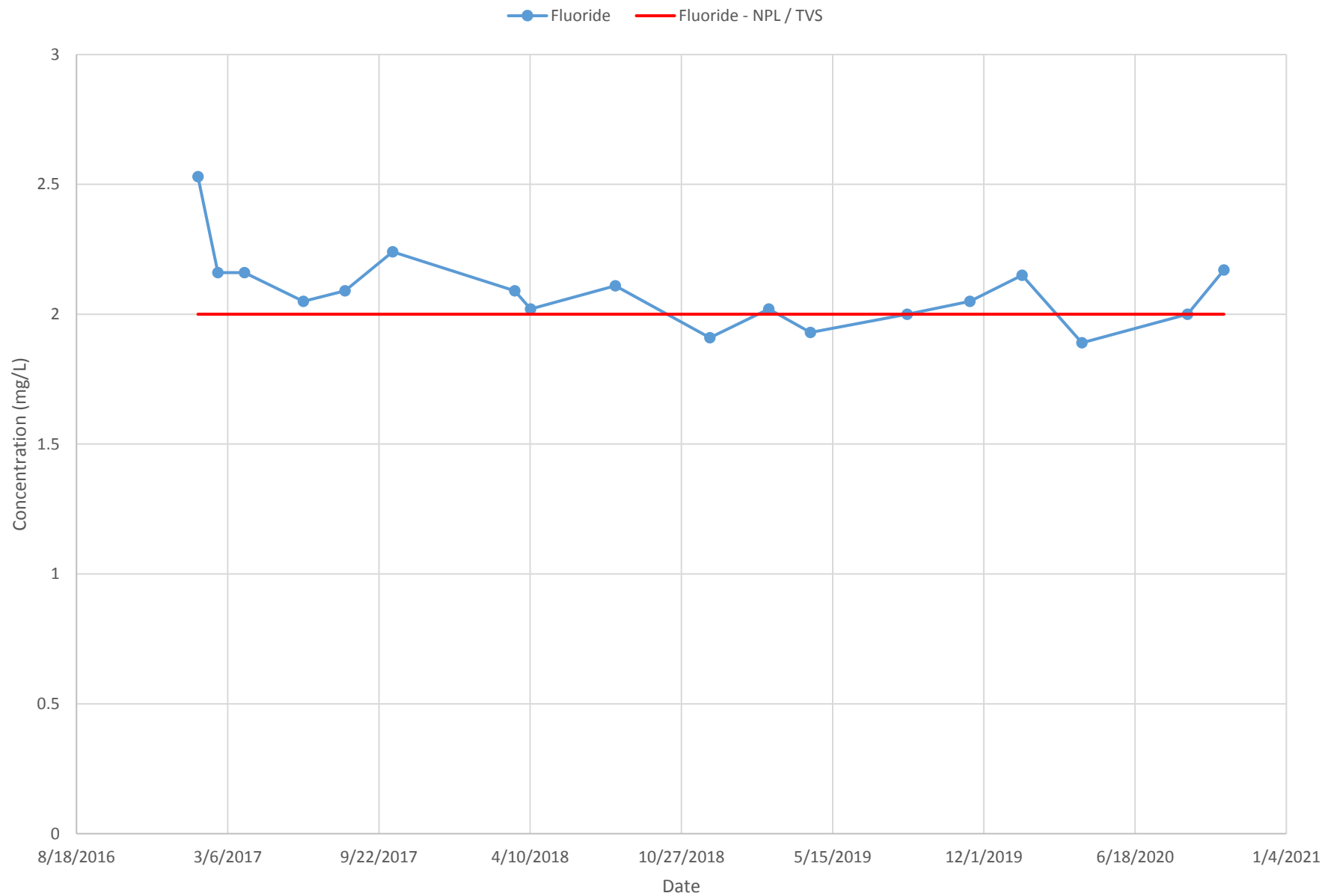




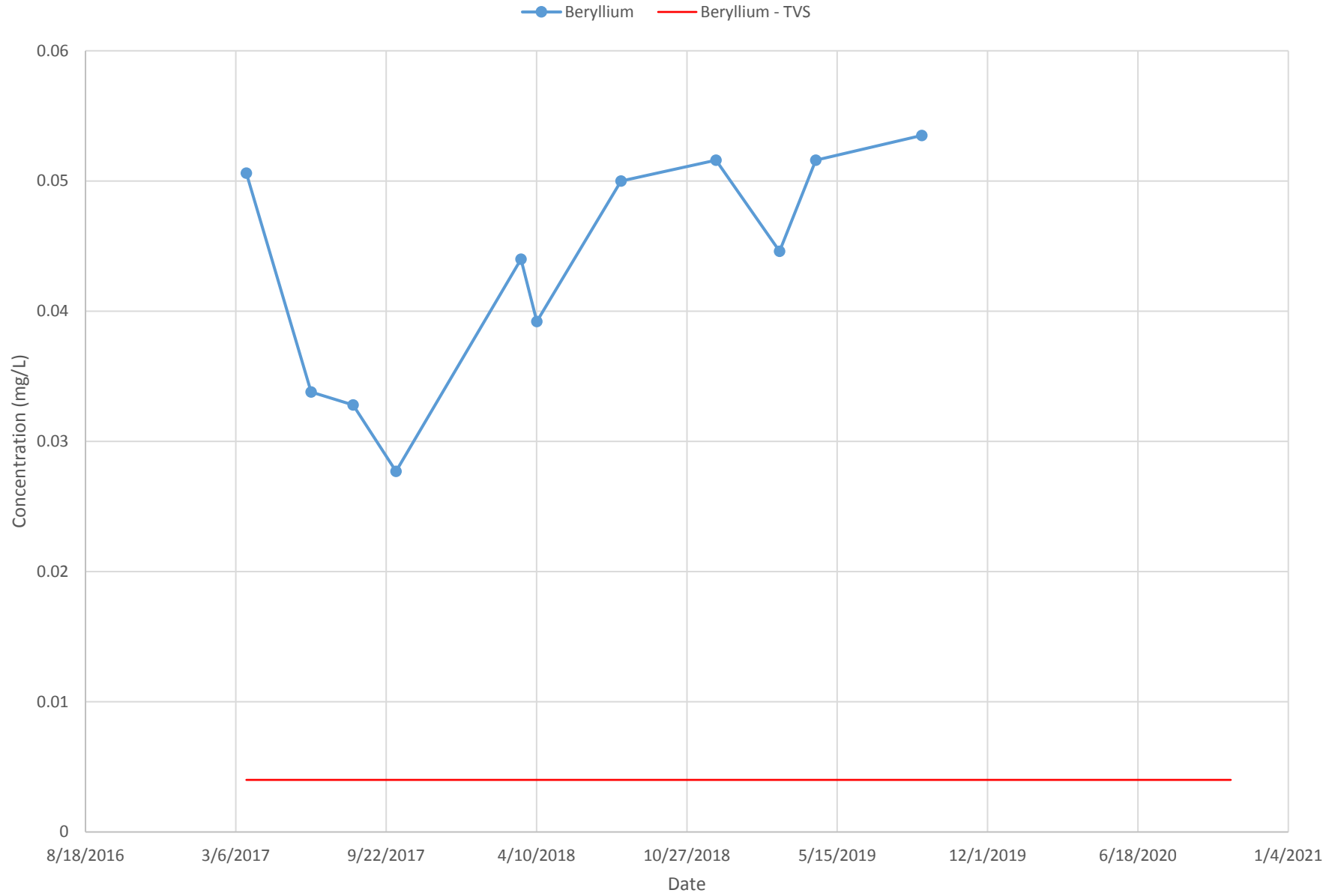




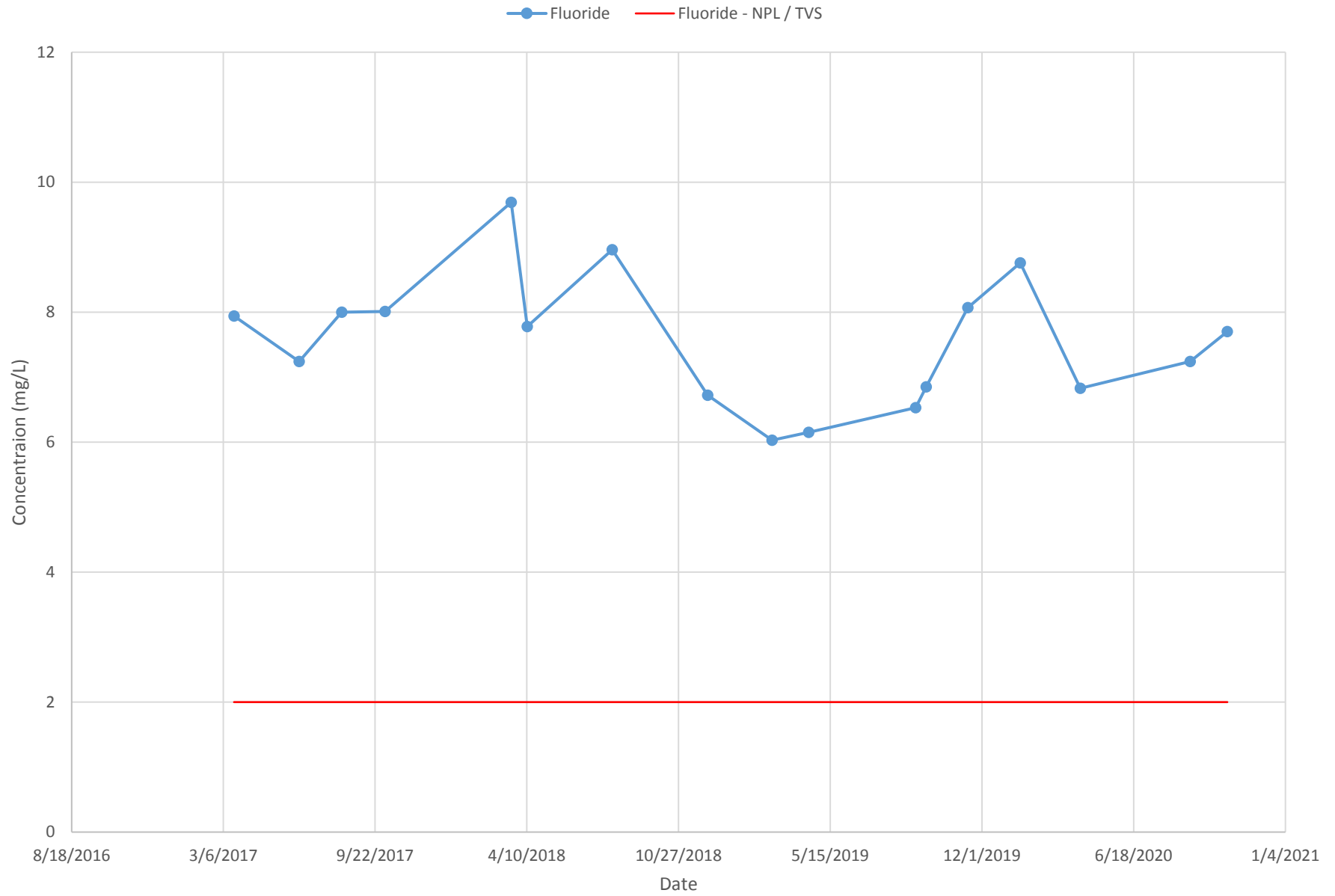
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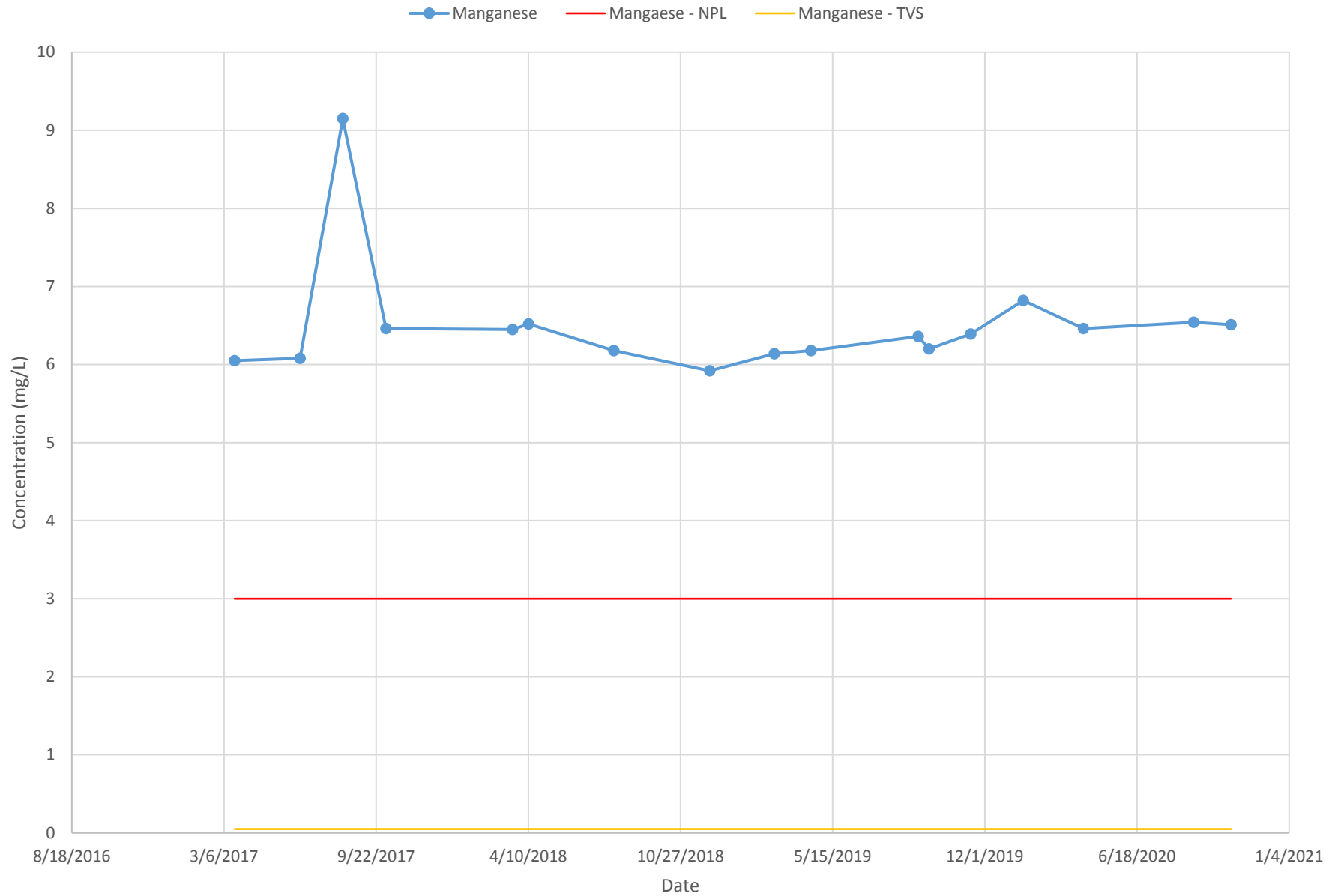
# SGMW-6B



# SGMW-6B

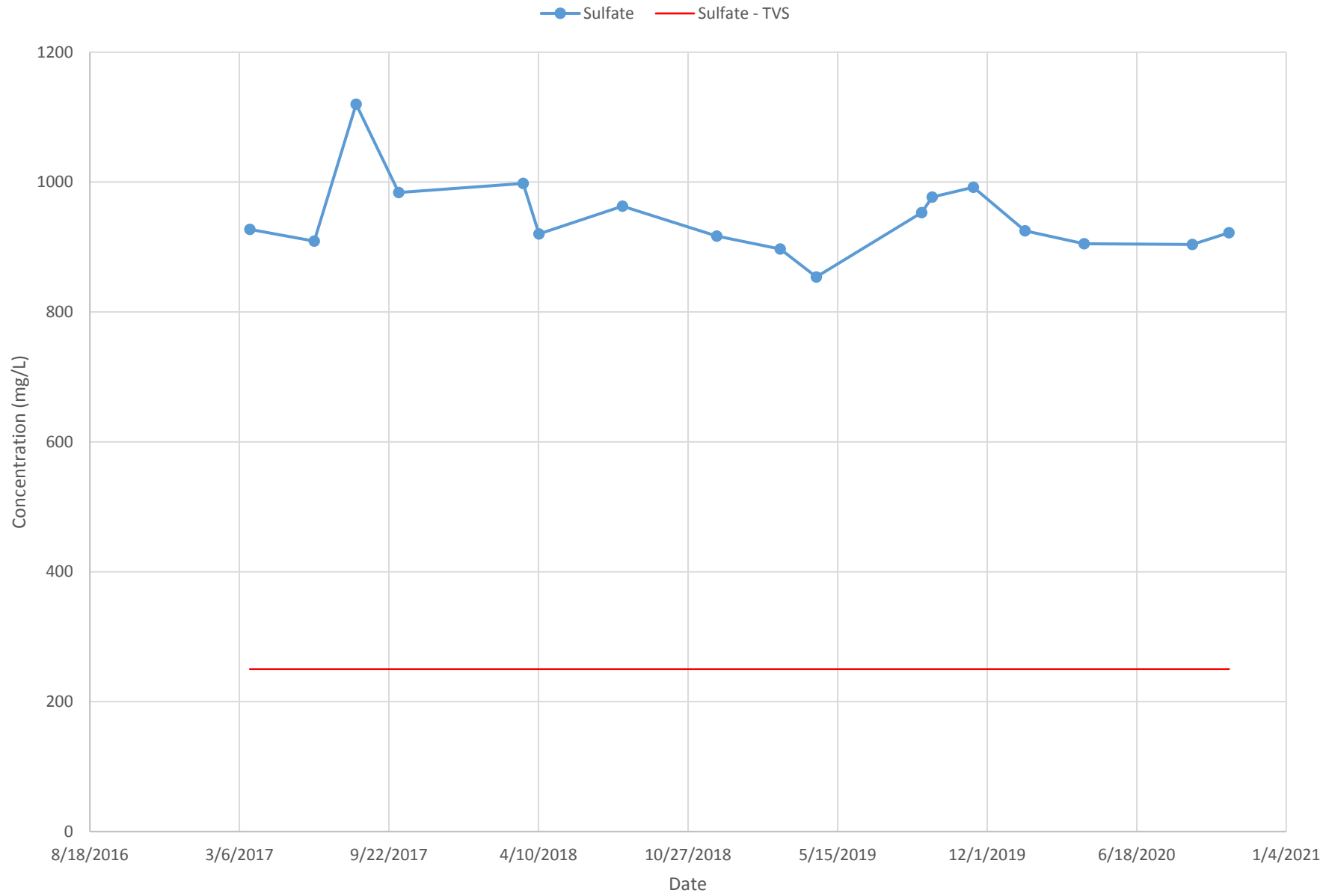


# SGMW-6B

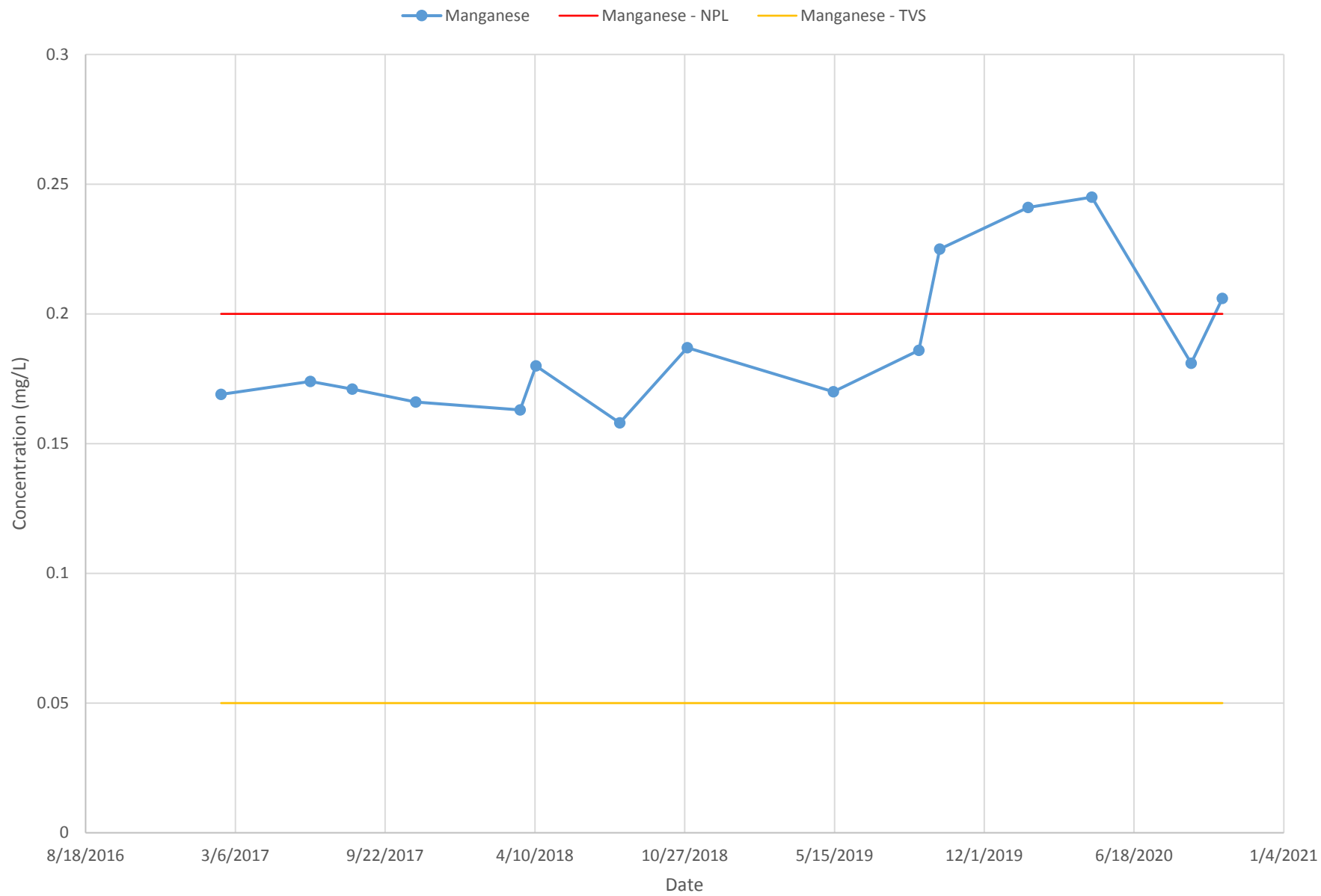




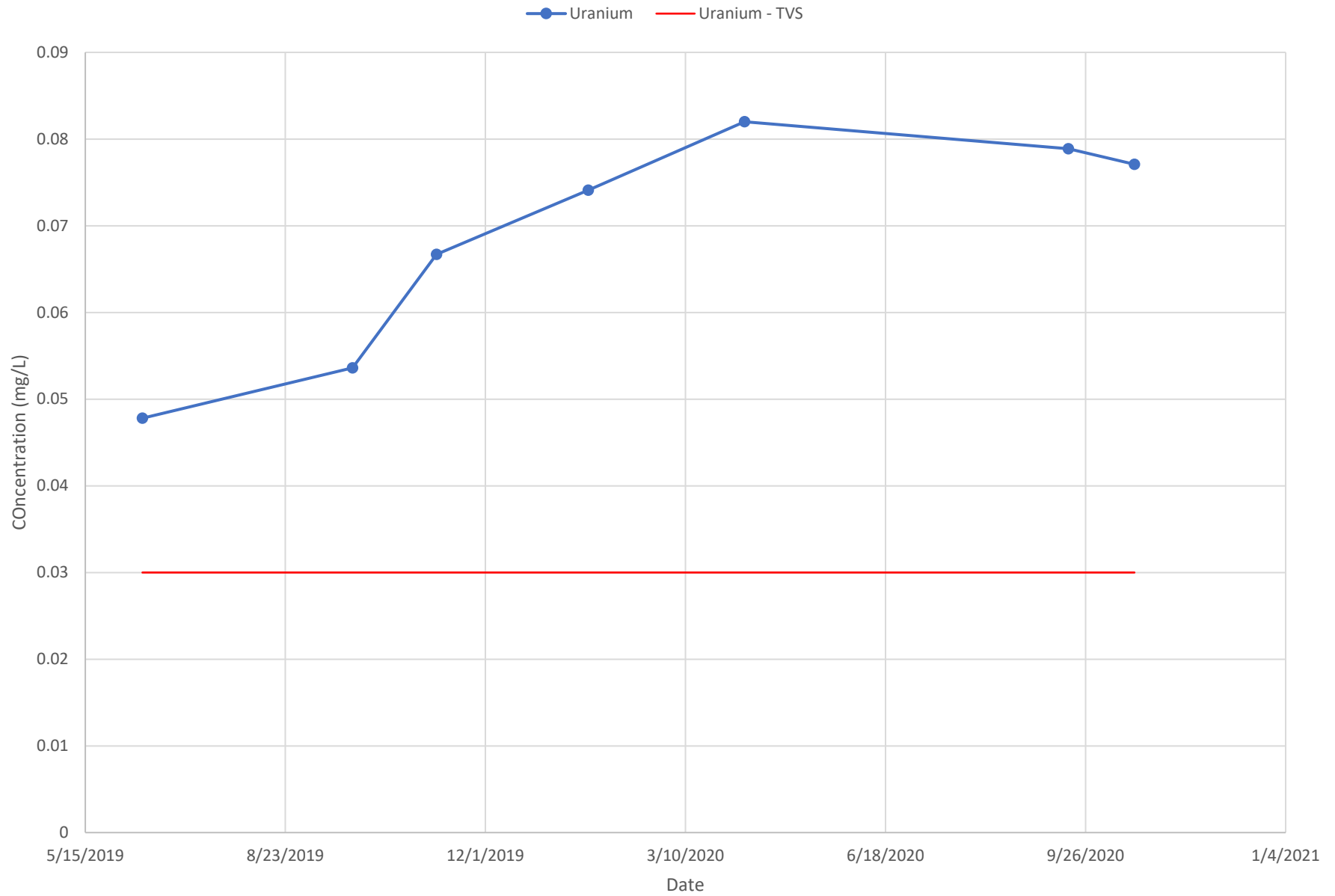
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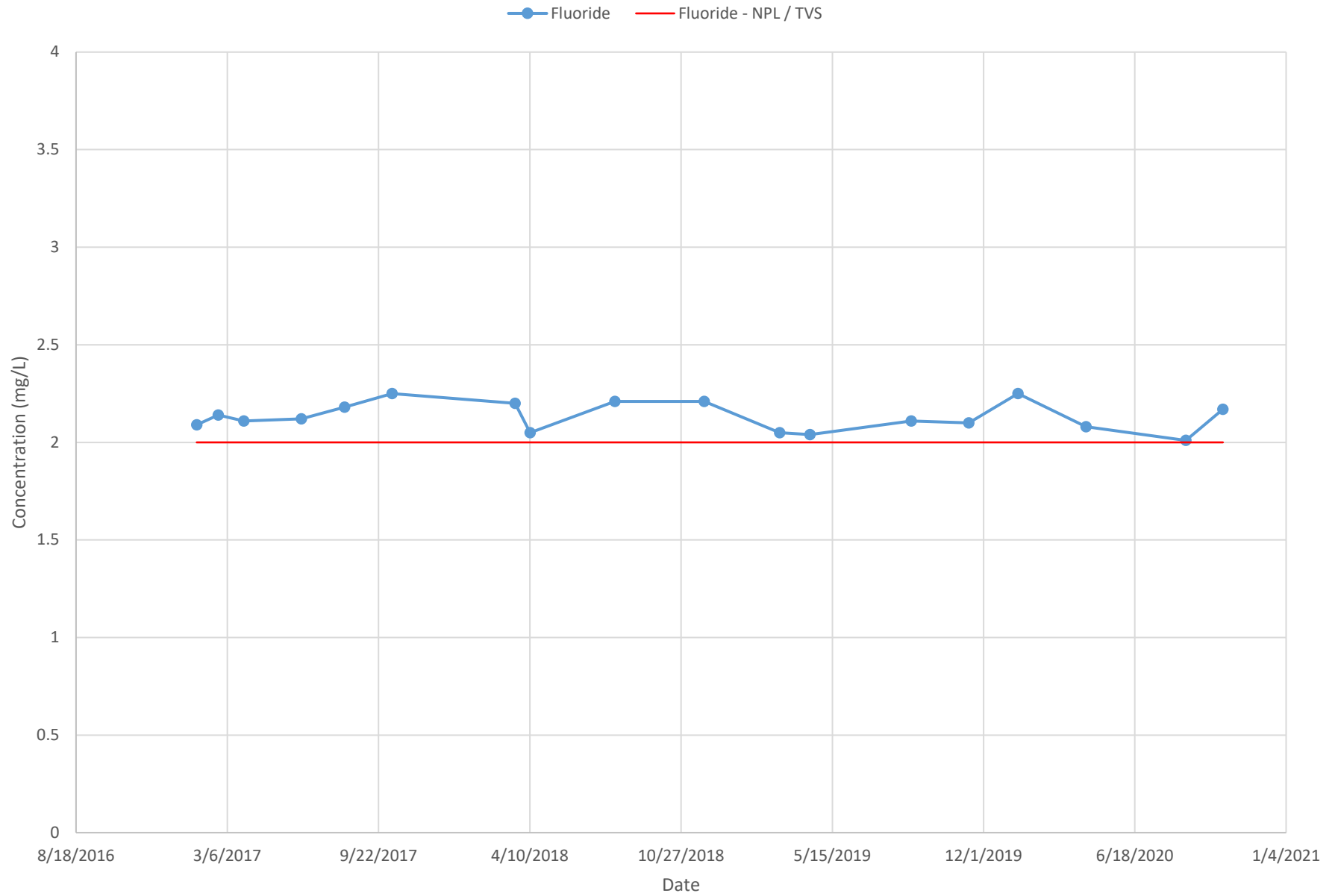
# WCMW-6



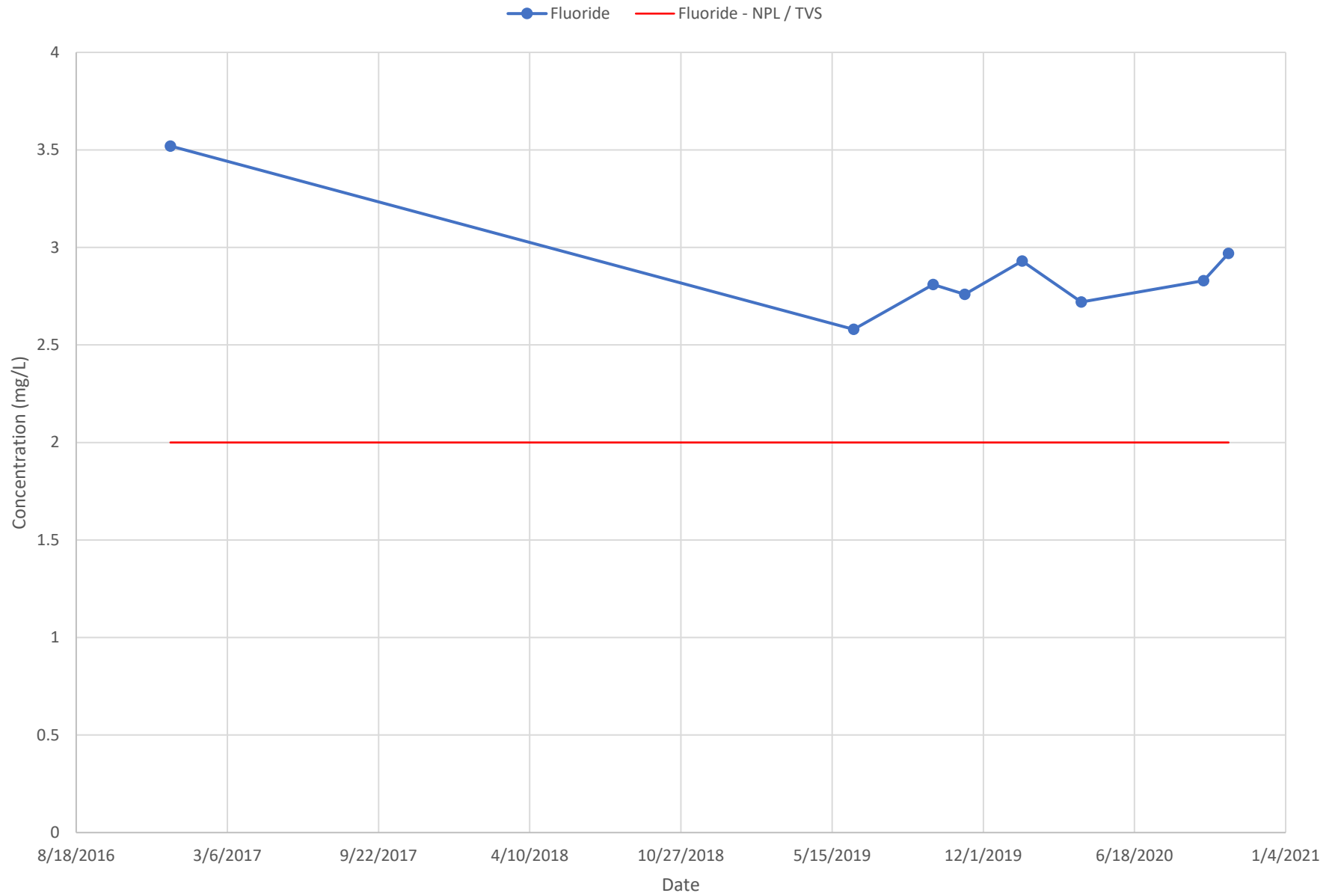
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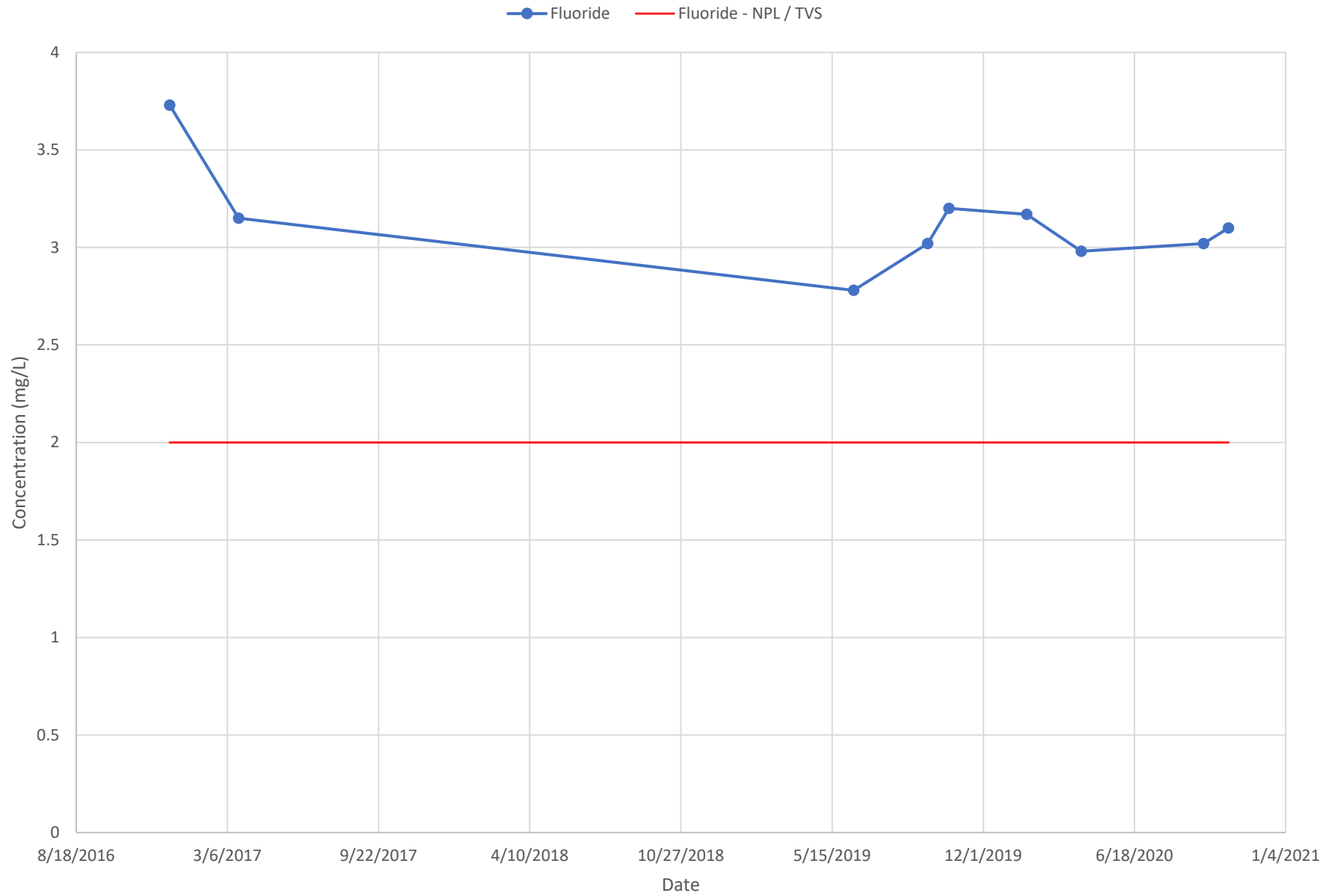
# GVMW-22A



# CRMW-5B

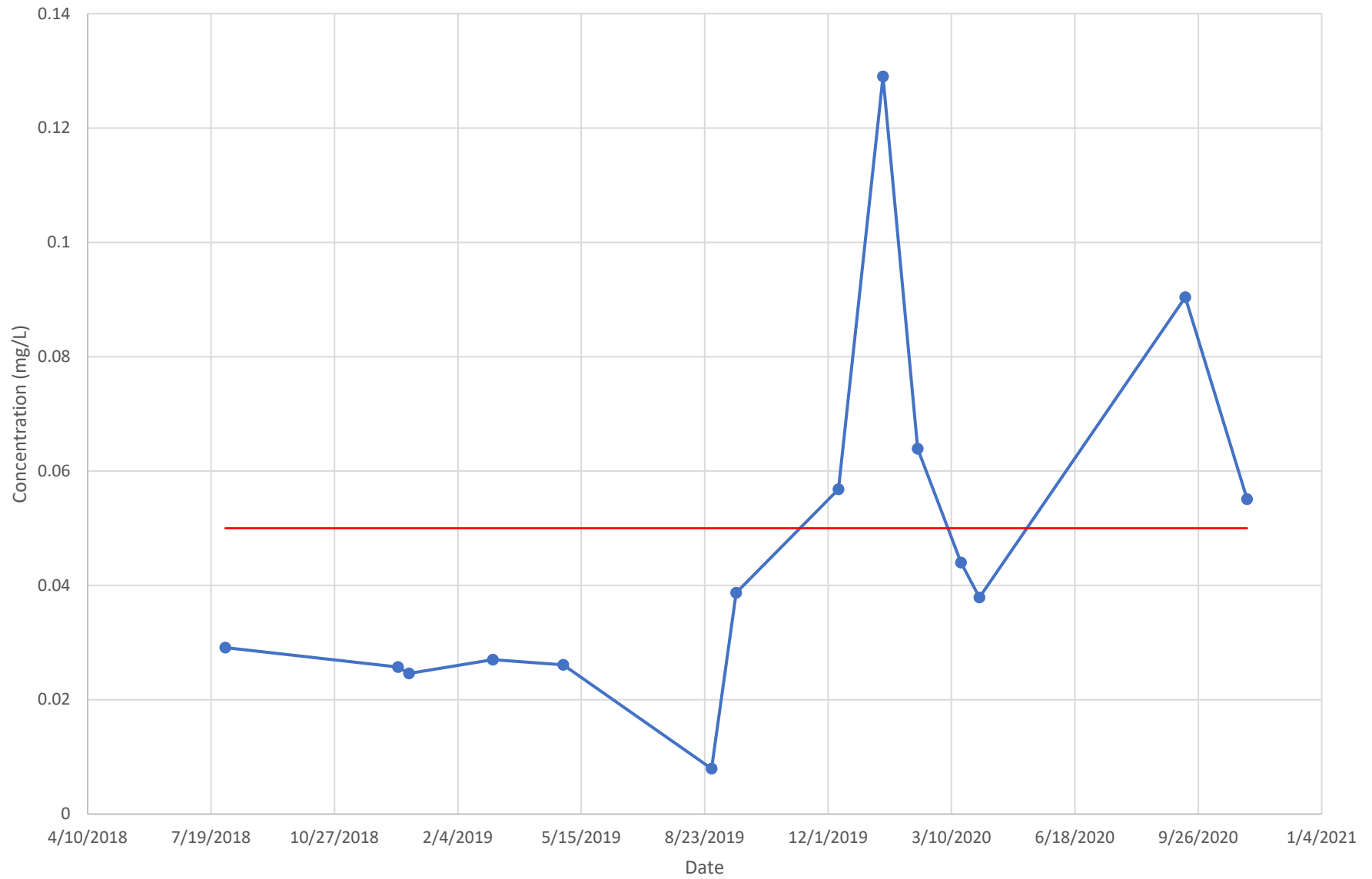


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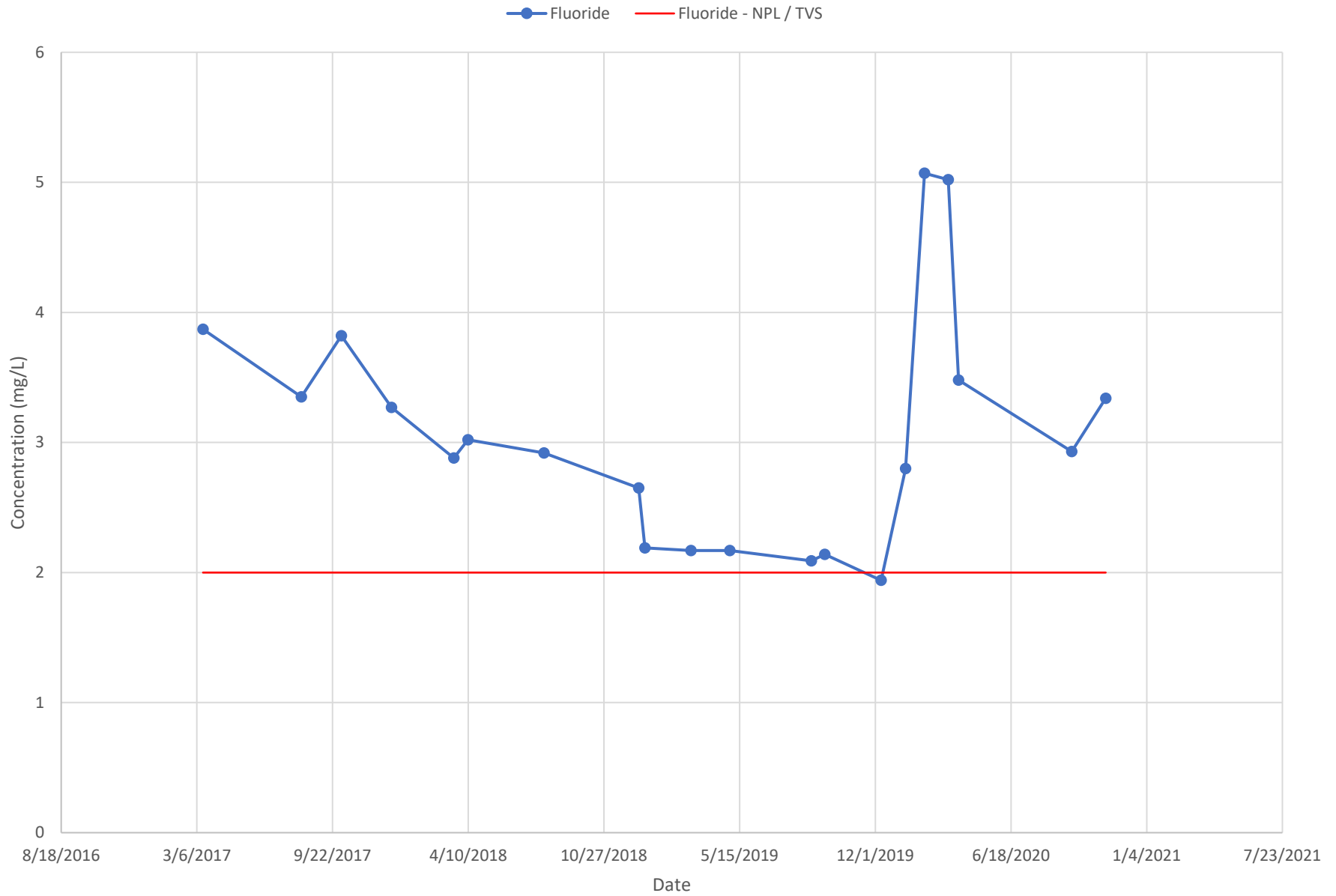


# CRMW-3B

—●— Cobalt — Cobalt - TVS

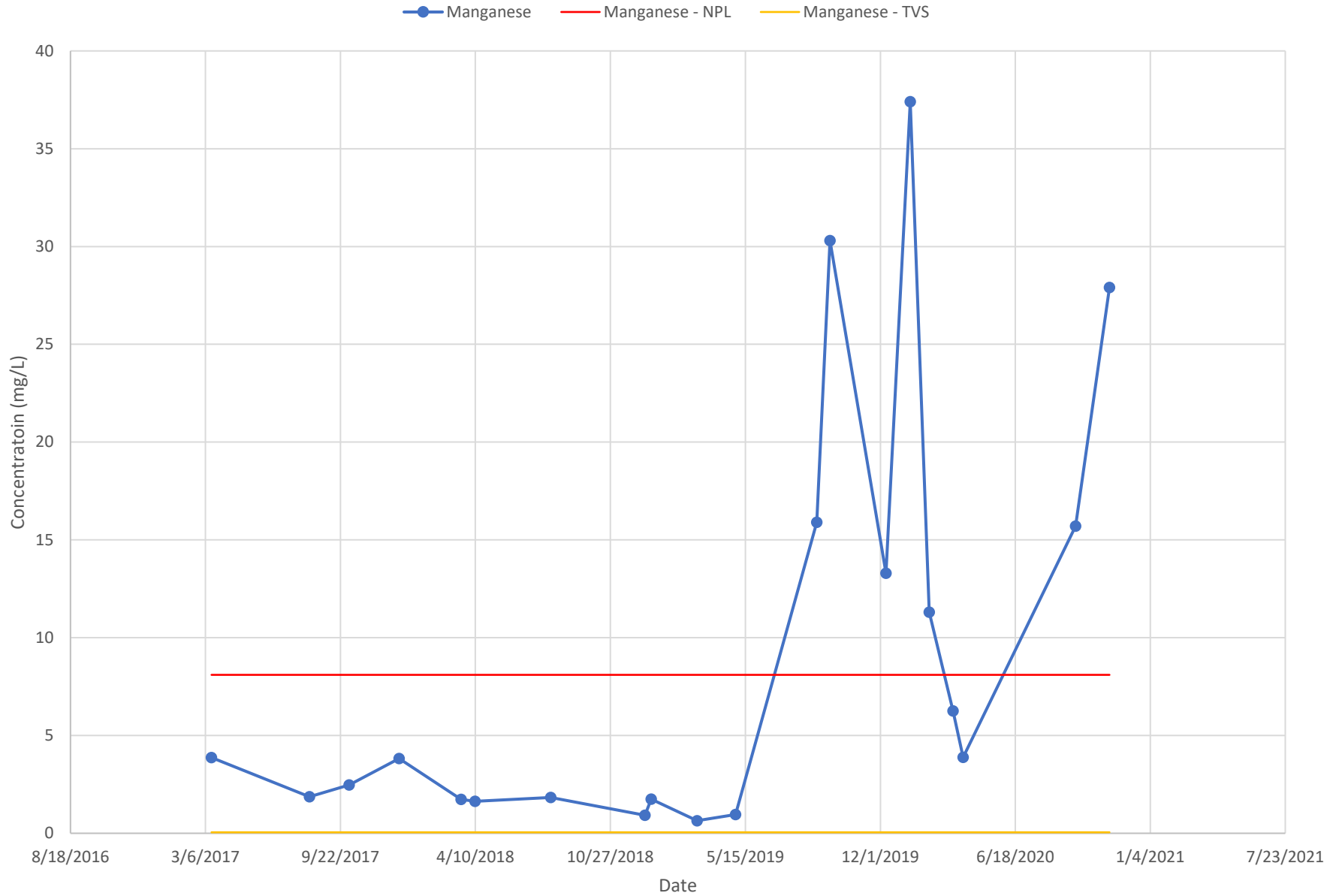


# CRMW-3B

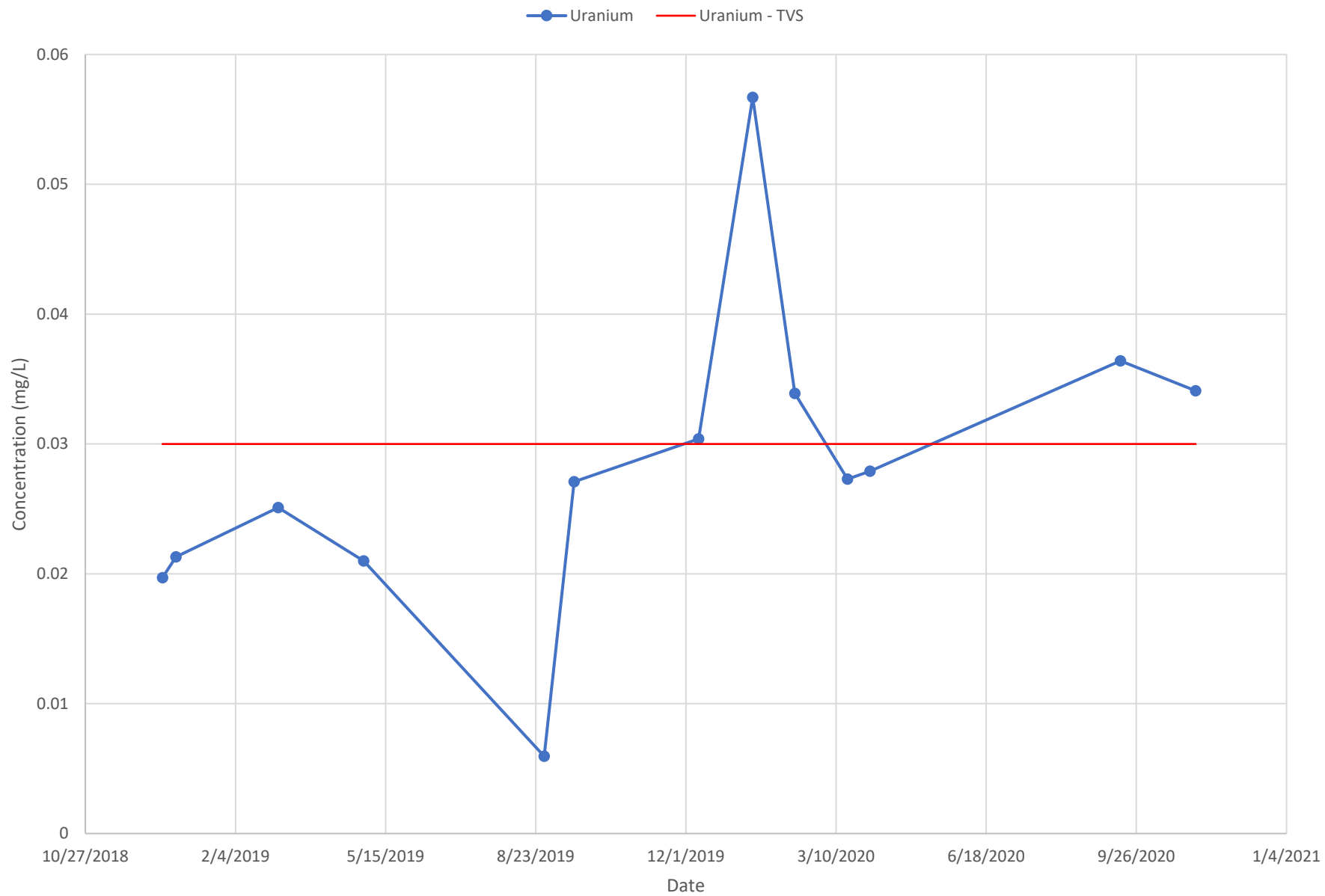




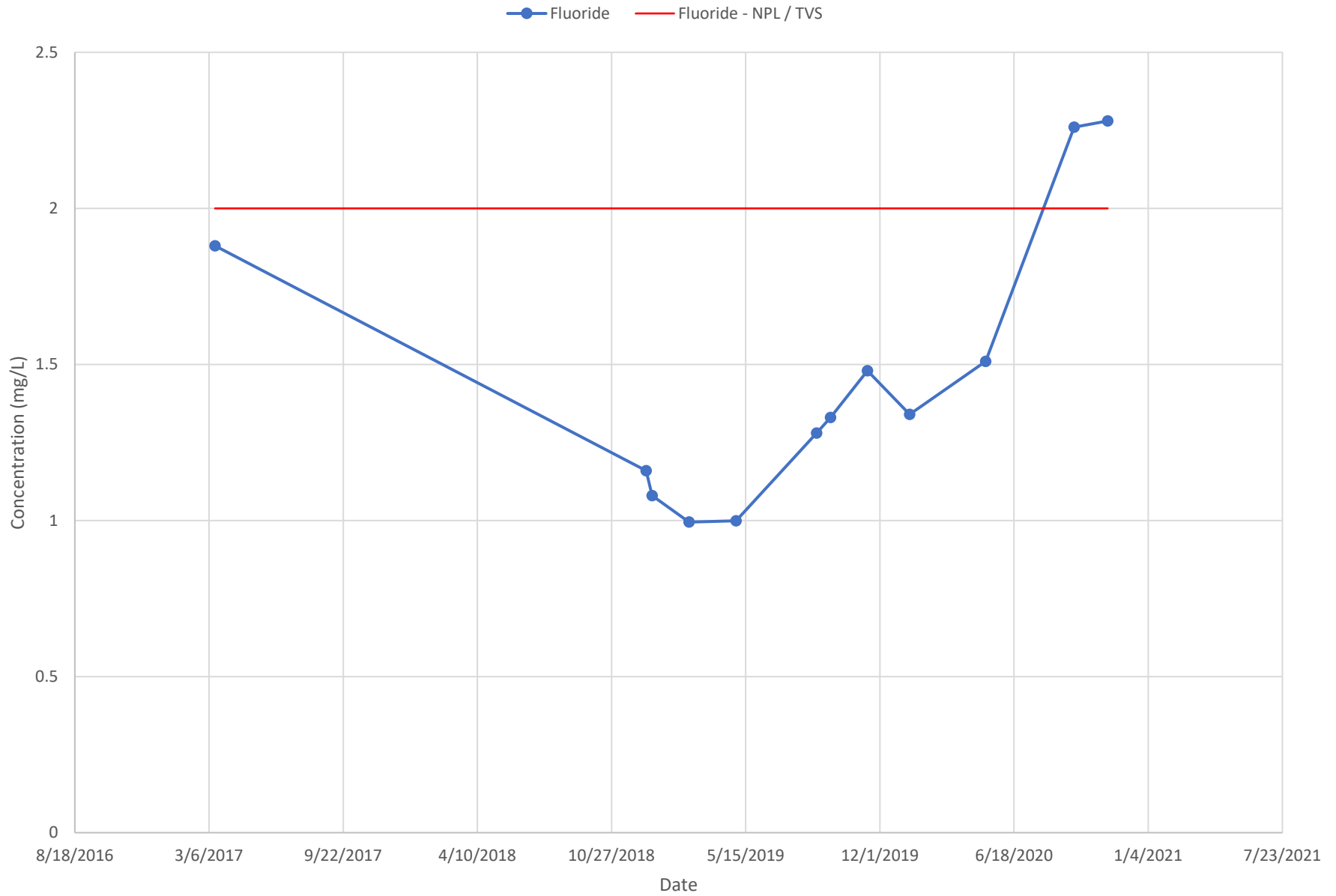
# CRMW-3B



# CRMW-3B



# CRMW-3C



# CRMW-3C

● Sulfate    — Sulfate - TVS

