



October 23, 2024

Mr. Clayton Wein
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

**RE: Annual Hydrology Report
New Horizon North Mine
Permit No. C-2010-089**

Dear Mr. Wein,

Enclosed please find the Annual Hydrology Report for the 2023-2024 Water Year (October 2023 – September 2024) for Elk Ridge Mining and Reclamation, LLC (Elk Ridge) New Horizon North Mine. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent to Elk Ridge, and in accordance with Rule 4.05.13(4)(c) is submitting the Annual Hydrology Report on behalf of the New Horizon North Mine.

If you have any questions about the enclosed report, please contact Tony Tennyson at (970) 824-1232 or ttennyson@tristategt.org.

Sincerely,

DocuSigned by:


4BE980BE59E442F...

Chris Gilbreath
Senior Manager,
Remediation and Reclamation

CG:TT

Enclosures

cc: Tony Tennyson (via email)
File: G474-11.3(21)b-5

2024 Annual Hydrology Report

Water Year October 1, 2023 to September 30, 2024

Elk Ridge Mining and Reclamation, LLC

New Horizon North Mine

Permit No. C-2010-089

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Rule 4.05.13(4)(c) Annual Hydrology Report Requirements

(i) Water quantity monitoring data for the water year is presented Appendices 1 and 3 of this report.

(ii) Water quality monitoring data for the water year is presented in Appendices 1 and 3 of this report. Discharge monitoring reports (DMR) are submitted to the Colorado Department of Public Health and Environment. Copies of each DMR are provided monthly to the Division during the report year and are included in this report by reference only.

(iii) A written interpretation of the data has been requested by the Division in accordance with Rule 4.05.13(4)(c)(iii) and is included within this annual hydrology report.

The monitoring timeframe for this annual hydrology report is from October 1, 2023 through September 30, 2024.

A description of the surface and ground water monitoring plan including the monitoring frequency is located in Appendix 2.05.6(3)-3. All monitoring locations are shown on Map 2.04-7-1. This information can be located in Permit No. C-2010-089.

Surface Water

Surface water monitoring sites are comprised of several sites, which comprise the current, upstream, and downstream condition and are briefly described below. Please see Map 2.04.7-1 for monitoring locations.

- SW-N202 is located on Meehan Draw and represents the downstream condition below mining.
- SW-N207 is located on Meehan Draw and represents and up gradient condition.
- SW-N213 is located on Nygren Draw and represents the up gradient condition.
- SW-N214 is located on Nygren Draw and represents the down gradient condition.

New Horizon North currently samples each surface water site for a variety of quality parameters. Of all the parameters that are analyzed for, several key indicator parameters have been identified and are addressed annually for the hydrology report. These parameters are laboratory pH, laboratory conductivity, TDS, sulfate, calcium, iron, magnesium, and sodium. Surface water monitoring data for the water year can be found in Appendix 1, and surface water summary graphs of the indicator parameters for all monitoring locations are provided in Appendix 2.

SW-N202 and SW-N207 – Meehan Draw

Data for surface water sites on Meehan Draw, SW-N202 (down gradient) and SW-N207 (up gradient), have been compiled and are shown on the summary tables below and graphically. Summary tables for indicator parameters are provide below for each site and include data from 2008 to the end of September of 2024 if available.

SW-N202							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.9	0.5	1.9	8.4	6.5	6/5/19	4/2/24
Lab Cond. (umhos/cm)	1,194	422	1,862	2,050	188	2/24/21	2/18/20
TDS (mg/l)	980	426	1,483	1,920	437	2/24/21	5/22/14
Sulfate (mg/l)	566	352	1,170	1,320	150	2/24/21	7/31/23
Calcium (mg/l)	194	74	245	351	106	3/20/12	5/16/17
Iron (tot rec ug/l)	1,954	2855	19,750	20,000	250	5/4/23	5/23/16
Magnesium (mg/l)	53	23	83	108	26	3/3/10	5/22/14
Sodium (mg/l)	18	6	21	31	10	2/24/21	7/31/23

SW-N207							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	8.3	0.2	0.09	8.6	7.7	6/16/09	7/30/24
Lab Cond. (umhos/cm)	805	166	618	1,140	522	3/27/23	8/11/12
TDS (mg/l)	547	142	524	840	316	3/27/23	8/23/12
Sulfate (mg/l)	184	79	322	393	71	3/29/21	7/31/23
Calcium (mg/l)	110	22	97	149	53	11/27/12	2/11/14
Iron (tot rec ug/l)	315	303	1,353	1,410	57	6/7/10	3/27/23
Magnesium (mg/l)	37	13	51	65	14	10/23/08	8/14/12
Sodium (mg/l)	14	4	17	23	7	11/27/12	8/14/12

A review of the water year data indicates two minimum values for pH occurred at SW-N202 and SW-N207. The remaining indicator parameters tracked within historical trends.

SW-N213 and SW-N214 - Nygren Draw

Data for sites SW-N213 (up gradient) and SW-N214 (down gradient) have been compiled and are shown on the summary tables below and graphically. Summary tables for indicator parameters are provide below for each site and include data from 2008 to the end of September of 2024 if available.

SW-N213							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	8.3	0.3	1.7	8.7	7.0	5/24/21	7/30/24
Lab Cond. (umhos/cm)	977	271	1,096	1,540	444	3/27/23	5/4/23
TDS (mg/l)	695	236	890	1,200	310	3/27/23	5/4/23
Sulfate (mg/l)	269	113	472	560	88	3/27/23	5/4/23
Calcium (mg/l)	129	34	135	190	55	8/11/21	5/4/23
Iron (tot rec ug/l)	120	108	390	400	10	8/21/12	11/26/13
Magnesium (mg/l)	45.8	18.2	83	98.0	15	3/27/23	4/2/24
Sodium (mg/l)	23.6	8.4	38.1	47.0	8.9	3/27/23	5/4/23

SW-N214							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	8.4	0.2	0.8	8.6	7.8	10/5/22	4/2/24
Lab Cond. (umhos/cm)	956	254	934	1,380	446	11/18/15	5/4/23
TDS (mg/l)	678	218	790	1,100	310	10/23/23	5/4/23
Sulfate (mg/l)	257	100	379	466	87	8/11/21	5/4/23
Calcium (mg/l)	128	34	136	190	54	10/23/23	5/4/23
Iron (tot rec ug/l)	175	153	660	670	10	5/31/13	11/26/13
Magnesium (mg/l)	43.3	15.8	72.3	87.3	15.0	11/18/15	4/2/24
Sodium (mg/l)	22.9	8.6	33.7	42.5	8.8	11/18/15	5/4/23

A review of the water year data for SW-N213 indicates two minimum values were recorded for laboratory pH and magnesium. The remaining indicator parameters tracked within historical trends

A review of the water year data for SW-N214 indicates multiple minimum values were recorded laboratory pH, and two maximum values were recorded for TDS and calcium. The remaining indicator parameters tracked within historical trends.

Surface Water Data Interpretation

Meehan Draw

As shown on the graphs in Appendix 2 for the indicator parameters, when comparing the up gradient and down gradient locations, SW-N202 historically trends higher for all the indicator

parameters since monitoring commenced. Both the up gradient and down gradient locations show stable conditions in Meehan Draw with seasonal influences from irrigation.

Nygren Draw

As shown in Appendix 2 for the indicator parameters, when comparing the up gradient and down gradient locations on Nygren Draw (SW-N213 and SW-N214), they both trend almost identically. This indicates normal natural conditions are occurring in Nygren Draw with seasonal influences from irrigation.

Ground Water

Ground water monitoring sites are comprised of several sites which comprise the aquifers upstream and downstream of mining and reclamation activities and are briefly described below. Please see Map 2.04.7-1 for monitoring locations.

- GW-N50 monitors the underburden aquifer and represents the up gradient condition.
- GW-N51 monitors the Dakota coal aquifer and represents the up gradient condition.
- GW-N52 monitors the overburden aquifer and represents the up gradient condition.
- GW-N53 monitors the underburden aquifer and represents the down gradient condition.
- GW-N54 monitors the Dakota coal aquifer which represents the down gradient condition.
- GW-N55 monitors the overburden aquifer which represents the down gradient condition.
- GW-N56 monitors the underburden aquifer down-dip of the mining area.
- GW-N57 monitors the Dakota coal aquifer down-dip of the mining area.
- GW-N58 monitors the overburden aquifer down-dip of the mining area.

New Horizon currently samples each groundwater site for a variety of quality parameters. Of all the parameters that are analyzed for, several key indicator parameters are identified and are addressed annually for the hydrology report. These are laboratory pH, laboratory conductivity, TDS, sulfate, calcium, iron, magnesium, sodium and elevation. Ground water monitoring data for the water year can be found in Appendix 3, and ground water summary graphs of the indicator parameters for all monitoring locations are provided in Appendix 4.

Wells GW-N50, GW-N51, and GW-N52

GW-N50 monitors the underburden aquifer, GW-N51 monitors the Dakota coal aquifer, and GW-N52 monitors the overburden aquifer. This cluster of wells provides groundwater data representative of the up-gradient condition above where mining and reclamation has occurred.

Summary of the indicator parameters for each well are provided as follows:

GW-N50							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.7	0.2	0.9	8.1	7.2	6/3/10	4/17/24
Lab Cond. (umhos/cm)	2,526	423	2,337	3,330	993	6/8/20	12/10/20
TDS (mg/l)	2,199	405	2,100	3,200	1,100	2/8/23	11/1/23
Sulfate (mg/l)	1,299	1,047	8,525	9,180	655	9/23/19	3/15/21
Calcium (mg/l)	321	51	198	413	215	3/1/11	11/30/09
Iron (mg/l)	0.3005	0.2163	0.8268	0.8500	0.0232	4/17/24	5/27/21
Manganese (mg/l)	0.80	0.36	1.52	1.55	0.03	3/3/10	4/17/24
Sodium (mg/l)	114.4	29.5	106.3	163.0	56.7	3/10/20	9/23/19
Magnesium (mg/l)	167	49	245	246	1	6/8/20	6/21/22

GW-N51							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	6.7	0.6	2.5	7.9	5.4	2/20/13	9/5/24
Lab Cond. (umhos/cm)	1,002	126	705	1,410	705	5/22/09	12/8/20
TDS (mg/l)	746	103	562	1,100	538	5/28/09	3/15/21
Sulfate (mg/l)	448	102	469	700	231	5/26/09	5/21/14
Calcium (mg/l)	107	22	100	167	67	8/25/11	3/15/21
Iron (mg/l)	7.1	3.8	11.4	12.9	1.5	12/8/20	4/17/24
Manganese (mg/l)	0.92	0.38	1.45	1.96	0.52	8/25/11	3/15/21
Sodium (mg/l)	26.1	6.3	35.7	50.3	14.6	5/20/09	2/10/16
Magnesium (mg/l)	48.4	9.6	55.9	85.7	29.8	5/20/09	3/15/21

GW-N52							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.6	0.3	1.9	8.3	6.4	8/26/11	9/5/24
Lab Cond. (umhos/cm)	870	145	730	1,250	520	11/23/11	11/1/23
TDS (mg/l)	628	115	600	1,030	430	12/2/11	5/21/12
Sulfate (mg/l)	269	76	412	580	168	12/1/11	5/15/12
Calcium (mg/l)	161	30	162	279	117	11/22/11	8/23/17
Iron (mg/l)	0.0987	0.1173	0.3726	0.3800	0.0074	1/26/22	5/27/21
Manganese (mg/l)	0.16	0.42	1.50	1.50	0.01	1/24/24	5/28/11
Sodium (mg/l)	8.3	2.4	9.4	15.1	5.7	3/10/20	8/23/17
Magnesium (mg/l)	20.4	7.2	30.0	42.0	12.0	2/8/23	8/23/17

A review of the water year for this series of wells indicates a maximum value for iron and three minimum values for pH, TDS and manganese occurred at GW-N50. At GW-N51 two minimum values were recorded for pH and iron respectively. Finally, at GW-N52 one maximum value for manganese occurred and two minimum values for pH and laboratory conductivity occurred. at GW-N52. All other analytical results for all the wells in this series trending within previous data sets.

Wells GW-N53, GW-N54, and GW-N55

GW-N53 monitors the underburden aquifer, GW-N54 monitors the Dakota coal aquifer, and GW-N55 monitors the overburden aquifer. This cluster of wells provides data representative of the down gradient condition below where mining occurred.

Summary of the indicator parameters for each well are provided as follows:

GW-N53							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.9	0.2	1.3	8.2	6.9	10/18/08	9/5/24
Lab Cond. (umhos/cm)	3,330	254	1,770	3,640	1,870	9/15/21	12/8/20
TDS (mg/l)	2,950	256	800	3,370	2,570	2/8/23	5/28/09
Sulfate (mg/l)	1,639	150	700	2,100	1,400	9/5/24	5/26/09
Calcium (mg/l)	313	22	95	360	265	4/6/23	12/1/10
Iron (mg/l)	0.0346	0.0232	0.0760	0.0900	0.0140	11/30/22	5/27/21
Manganese (mg/l)	0.057	0.039	0.135	0.140	0.005	11/19/16	12/1/09
Sodium (mg/l)	195	21	73	238	165	8/25/11	11/28/17
Magnesium (mg/l)	254	18	92	300	208	4/6/23	12/1/10

GW-N54							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.8	0.2	1.5	8.1	6.6	10/18/08	9/17/24
Lab Cond. (umhos/cm)	4,649	896	4,230	6,100	1,870	8/20/14	12/8/20
TDS (mg/l)	4,729	977	5,280	6,940	1,660	2/25/15	12/8/10
Sulfate (mg/l)	2,999	818	4,518	5,030	512	2/25/15	9/16/20
Calcium (mg/l)	444	72	333	534	201	11/17/15	9/1/10
Iron (mg/l)	0.1224	0.0981	0.2560	0.2900	0.0340	8/11/22	2/8/23
Manganese (mg/l)	0.409	0.226	0.740	0.870	0.130	11/13/13	6/2/10
Sodium (mg/l)	170	30	146	213	67	8/24/09	8/31/10
Magnesium (mg/l)	554	135	654	880	226	11/17/15	12/1/10

GW-N55							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.7	0.2	1.4	8.1	6.7	2/27/10	9/17/24
Lab Cond. (umhos/cm)	9,572	2,476	10,450	13,000	2,550	9/16/20	12/8/20
TDS (mg/l)	12,336	3,423	10,800	16,500	5,700	9/16/20	8/26/15
Sulfate (mg/l)	8,179	2,688	10,780	12,600	1,820	3/4/20	5/27/21
Calcium (mg/l)	441	25	96	496	400	3/3/10	11/9/22
Iron (mg/l)	0.3781	0.3204	1.1670	1.2	0.0330	10/26/23	12/8/20
Manganese (mg/l)	0.64	0.45	1.39	1.40	0.02	4/6/23	8/25/11
Sodium (mg/l)	319	43	184	444	260	8/25/11	8/9/22
Magnesium (mg/l)	1,967	675	2,200	2,850	650	9/16/20	2/18/14

A review of the water year data indicates a maximum value for sulfate and a minimum value for pH occurred at GW-N53. GW-N54 exhibited one minimum value for pH, and GW-N55 exhibited one maximum value for iron. All other analytical results tracked within previous results.

Wells GW-N56, GW-N57, and GW-N58

GW-N56 monitors the underburden aquifer, GW-N57 monitors the Dakota coal, and GW-N58 monitors the overburden aquifer. This cluster of wells provides groundwater data representative of the up gradient condition above where mining occurred.

Summary of the indicator parameters for each well are provided as follows:

GW-N56							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.8	0.2	0.7	8.0	7.3	8/14/13	27/23
Lab Cond. (umhos/cm)	4,175	455	2,110	5,040	2,930	6/22/22	12/2/20
TDS (mg/l)	4,086	604	2,080	5,170	3,120	7/16/24	8/29/12
Sulfate (mg/l)	2,476	415	1,500	3,400	1,900	1/10/24	5/26/15
Calcium (mg/l)	483	67	288	606	318	5/17/16	8/29/12
Iron (mg/l)	0.1222	0.0682	0.1850	0.2200	0.0350	6/22/22	3/9/21
Manganese (mg/l)	0.40	0.26	1.19	1.20	0.01	5/9/18	5/21/14
Sodium (mg/l)	172	40	254	395	141	11/27/12	5/17/16
Magnesium (mg/l)	263	217	551	570	19	11/10/21	8/29/12

GW-N57							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.7	0.2	0.8	8.0	7.2	12/11/19	8/11/22
Lab Cond. (umhos/cm)	4,775	382	2,000	5,260	3,260	1/10/24	11/30/20
TDS (mg/l)	4,956	439	1,960	5,800	3,840	7/12/23	5/26/15
Sulfate (mg/l)	3,166	275	1,210	3,700	2,490	2/7/23	5/26/15
Calcium (mg/l)	509	70	505	560	55	4/3/24	12/11/19
Iron (mg/l)	0.3661	0.2621	0.9651	1.0	0.0349	7/17/27	9/14/21
Manganese (mg/l)	0.69	0.16	0.73	0.99	0.26	8/9/17	8/20/14
Sodium (mg/l)	150	17	73	174	101	2/17/14	5/26/15
Magnesium (mg/l)	541	54	260	650	390	4/3/24	5/26/15

GW-N58							
Parameter	Mean	Std dev	Range	Max.	Min.	Max at	Min at
Lab pH	7.5	0.3	1.3	7.9	6.6	5/28/18	7/17/24
Lab Cond. (umhos/cm)	7,333	2,895	12,540	16,000	3,460	5/28/13	11/30/20
TDS (mg/l)	8,551	3,964	15,150	20,000	4,850	5/28/13	2/14/18
Sulfate (mg/l)	5,794	3,222	11,940	15,000	3,060	5/28/13	2/14/18
Calcium (mg/l)	471	23	102	532	430	11/27/12	5/21/14
Iron (mg/l)	0.950	0.496	1.840	2.300	0.460	7/17/24	6/22/22
Manganese (mg/l)	1.67	1.72	5.99	6.15	0.16	11/27/12	5/9/18
Sodium (mg/l)	242	217	1,310	1,460	150	5/28/13	1/10/24
Magnesium (mg/l)	1,265	779	2,636	3,150	514	11/13/13	2/14/18

A review of the water year data indicates two maximum values occurred for TDS and sulfate, at GW-N56. At GW-N7 four maximum values for laboratory conductivity, iron, calcium, and magnesium occurred. At GW-N58 two minimum values for pH and sodium were recorded, and one maximum value for iron occurred. The remaining analytical results for the water year track within previous maximums and minimum values.

Groundwater Data Interpretation

The graphs in Appendix 4 provides the indicator parameters in comparison with the up gradient and down gradient locations with the overburden, coal, and underburden aquifer shown together accordingly.

Underburden Aquifer

When comparing the up gradient (GW-N50) and down gradient wells (GW-N53 and GW-N56) for the overburden aquifer, GW-N50 tends to historically trend lower than the two down gradient wells for most of the indicator parameters with the exception of iron and manganese. The overall up-gradient conditions for the overburden aquifer trend in a consistent manner with seasonal influences from local irrigation apparent in the data. The exception to this is manganese and pH as both are slightly trending down overtime.

The down gradient well GW-N53 demonstrates less variability in the data and provides a consistent water quality in the pre-mining and post mining (2017) timeframes. Data for down gradient well GW-N56 indicates less stability in the overall water quality in the overburden aquifer with some of the indicator parameters increasing including calcium, magnesium, manganese, sulfate, and TDS.

Coal Aquifer

When comparing the up gradient (GW-N51) and down gradient wells (GW-N54 and GW-N57) for the coal aquifer, GW-N51 historically trends much lower than the two down gradient wells for most of the indicator parameters. Like the overburden aquifer iron historically trends higher at the up-gradient location GW-N51 as well as manganese. Manganese is trending downward up-gradient of the mining and reclamation areas. The overall up-gradient conditions for the coal aquifer trend in a consistent manner with seasonal influences from local irrigation. The exception to this is manganese and pH as both are slightly trending down overtime.

Historically, both GW-N54 and GW-N57 both trended higher for most the indicator parameters. In general, the data acquired indicates very poor water quality was present prior to the commencement of mining at New Horizon North Mine, and the water quality post mining (2017) continues to be of low quality. Both wells exhibit relatively stable trends overtime for all the indicator parameters. Although, magnesium and manganese are increasing in the coal aquifer down gradient of mining at GW-N57.

Overburden Aquifer

When comparing the up gradient (GW-N52) and down gradient wells (GW-N55 and GW-N58) for the underburden aquifer, GW-N52 historically trends lower for the indicator parameters versus the two down gradient wells. GW-N52 demonstrates for all the indicator parameters trend in a consistent manner with stable water quality up-gradient of mining and reclamation activities.

Like the coal aquifer, the two down gradient wells, GW-N55 and GW-N58 both trend higher for most the indicator parameters. The data acquired from both down gradient wells indicates very poor water quality was present prior to the commencement of mining at the New Horizon North Mine, and the water quality post mining (2017) continues to be of low quality. TDS levels down-gradient prior to mining at GW-N55 were above 6,000 mg/l, and at GW-N58 TDS levels were above 16,500 mg/l. Further, sulfate at GW-N55 prior to mining was nearly 4,000 mg/l, and at GW-N58 was well above 10,000 mg/l. Electrical conductivity for both down gradient wells was also high at nearly 6,000 umhos/cm (GW-N55) and around 8,000 umhos/cm prior to mining.

Postmining (2017) electrical conductivity, magnesium, sulfate, and TDS have been decreasing and stabilizing at well GW-N58, while the same parameters have been increasing at GW-N55.

Appendix 1
Surface Water Monitoring Data

New Horizon North Mine

Analysis Results by Date (column) and Parameter (row)

Date Range: 10/01/2023 to 09/30/2024

Site: SW-N202

	10/23/2023	1/23/2024	4/2/2024	7/30/2024
Al, tot rec, ug/L	429	210	446	632
As, tot rec, ug/L	1.5	<0.40	0.62	2
Ca, diss, mg/L	190	220	270	120
Cd, tot rec, ug/L	0.18	0.27	0.28	0.12
Cl, diss, mg/L	6.1	8.4	9.8	5.5
Cu, diss, mg/L	<0.00080	<0.0016	<0.00080	<0.00080
Fe, tot rec, ug/L	2000	1100	2300	1200
HCO3, mg/L	230	79	110	260
Hg, tot, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Mg, diss, mg/L	48	67	76	31
Mn, diss, mg/L	0.26	0.75	0.97	0.065
Na, diss, mg/L	17	23	28	12
NH3 as N, tot, mg/L	<0.1	0.33	0.23	<0.1
NO2, diss, mg/l	0.012		<0.010	<0.010
NO3, diss, mg/l	0.067	<0.010	0.11	0.081
Pb, tot rec	3.3	<0.20	0.93	2.7
pH (field), pH	7.5	6.9	6.4	7.8
pH (lab), pH	8.1	7.1	6.5	7.8
PO4, tot	0.059	<0.03	0.04	0.053
SAR, ratio	0.29	0.35	0.39	0.27
Se, diss	0.002	0.0047	0.0041	0.0035
SO4, diss, mg/L	510	830	910	190
Spec. Cond. (lab), umhos/cm	1108	1430	1643	748
Spec. Cond. (field), umhos/cm	1220	862	1720	793
TDS, mg/L	920	1200	1500	590
Temp (Celcius), degrees C	10.7	4.1	4.5	17.3
TSS, mg/L	22	<5.0	15	26
Zn, tot rec	0.043	0.077	0.077	<0.020

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Site: SW-N207

	10/23/2023	1/23/2024	4/2/2024	7/30/2024
Al, tot rec, mg/L	66	Dry	<50	92
As, tot rec, ug/L	1.2		0.79	1.9
Ca, diss, mg/L	130		140	100
Cd, tot rec, ug/L	<0.050		<0.050	<0.050
Cl, diss, mg/L	6.4		14	6.1
Cu, diss, mg/L	<0.00080		0.00081	<0.00080
Fe, tot rec, ug/L	150		57	200
HCO3, mg/L	330		330	280
Hg, tot, mg/L	<0.0002		<0.0002	<.0002
Mg, diss, mg/L	47		59	27
Mn, diss, mg/L	0.017		0.027	0.078
Na, diss, mg/L	16		22	11
NH3 as N, diss, mg/L	<0.1		<0.1	<0.1
NO2, diss, mg/L	<0.010		<0.010	<0.010
NO3, diss, mg/L	<0.020		0.077	<0.020
Pb, tot rec, ug/L	0.16		<0.10	0.22
pH (field), pH	7.7		8.2	7.9
pH (lab), pH	8.3		8	7.7
PO4, diss	0.99		0.059	0.15
SAR, ratio	0.3		0.39	0.25
Se, diss, mg/L	0.00052		0.0023	0.00037
SO4, diss, mg/L	210		340	110
Spec. Cond. (field), umhos/cm	904		1096	674
Spec. Cond. (lab), umhos/cm	936		1140	696
TDS, mg/L	660		840	490
Temp (Celcius), degrees C	10.3		3.7	16.1
TSS, mg/L	<5.0		<5.0	6
Zn, tot rec, mg/l	<0.020		<0.020	<0.020

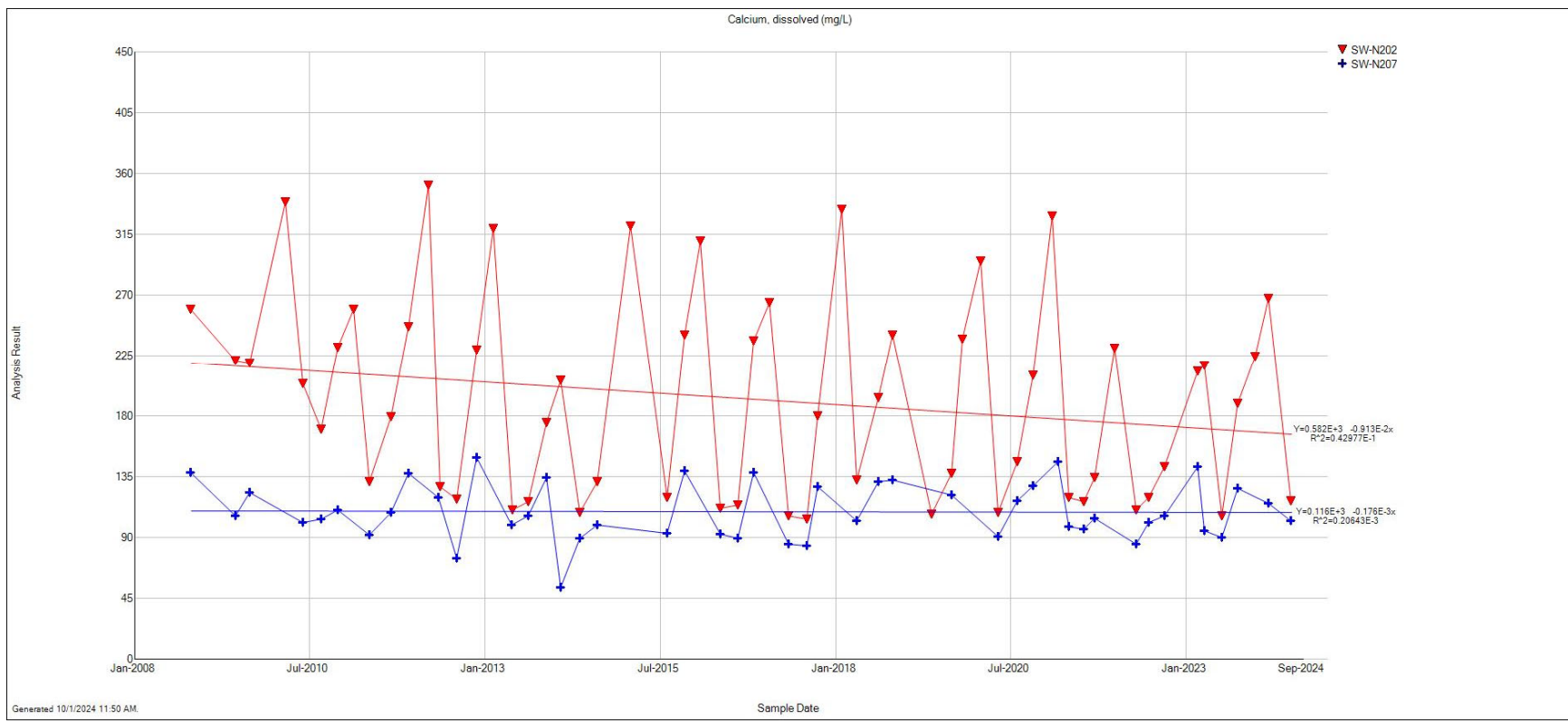
New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Site: SW-N213

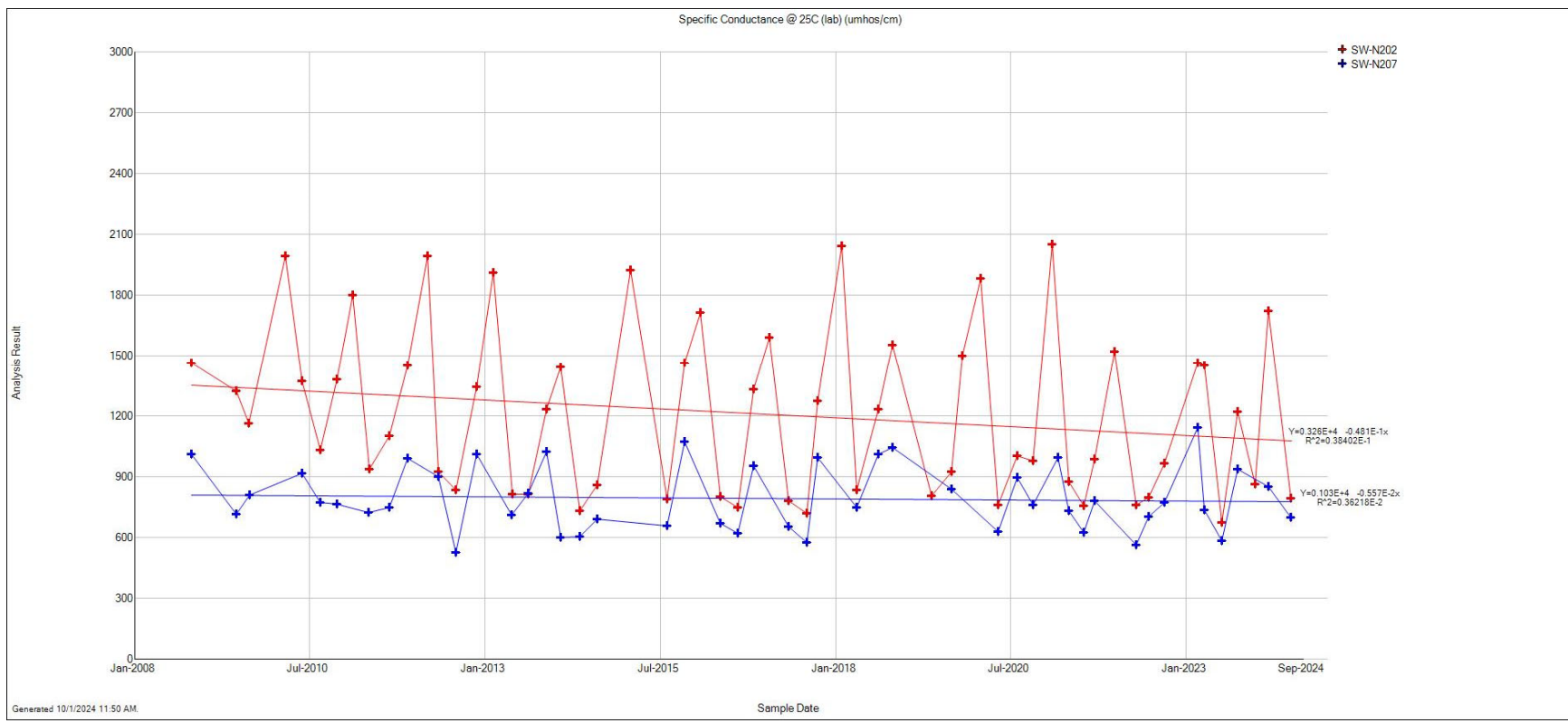
	10/23/2023	1/23/2024	4/2/2024	7/30/2024
Al, tot rec, ug/L	<50	Dry	<50	<50
As, tot rec, ug/L	0.66		0.66	1.4
Ca, diss, mg/L	190		78	150
Cd, tot rec, ug/L	<0.050		<0.050	0.061
Cl, diss, mg/L	10		8.5	7.7
Cu, diss, mg/L	<0.00080		0.0012	<0.00080
Fe, tot rec, ug/L	38		32	75
HCO3, mg/L	380		160	320
Hg, tot, mg/L	<0.00020		<0.00020	<0.00020
Mg, diss, mg/L	70		15	41
Mn, diss, mg/L	0.018		<0.010	0.031
Na, diss, mg/L	39		9.6	24
NH3 as N, diss, mg/L	<0.1		<0.1	<0.1
NO2, diss, mg/L	<0.010		<0.010	<0.010
NO3, diss, mg/L	<0.020		<0.020	0.087
Pb, tot rec, ug/L	<0.10		0.12	0.1
pH (field), pH	8		8.1	8.2
pH (lab), pH	8.3		7.8	7
PO4, tot	0.078		0.13	0.28
SAR, ratio	0.62		0.26	0.45
Se, diss, mg/L	0.00021		0.0014	0.00042
SO4, diss, mg/L	430		150	270
Spec. Cond. (field), umhos/cm	1308		509	988
Spec. Cond. (lab), umhos/cm	1380		483	1020
TDS, mg/L	1100		360	760
Temp (Celcius), degrees C	8.9		3.9	13.9
TSS, mg/L	<5.0		<5.0	<5.0
Zn, tot rec, mg/l	<0.020		<0.020	<0.020

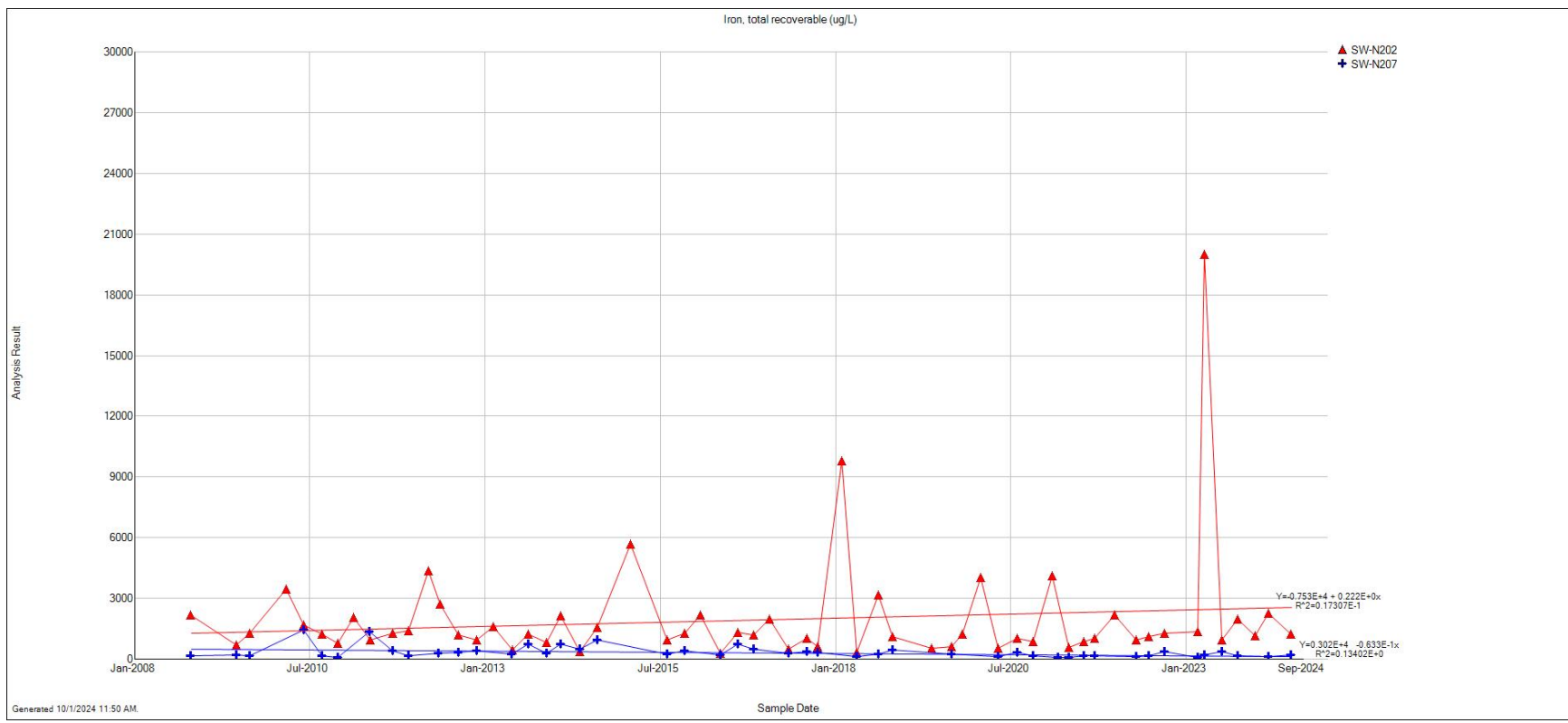
New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Site: SW-N214

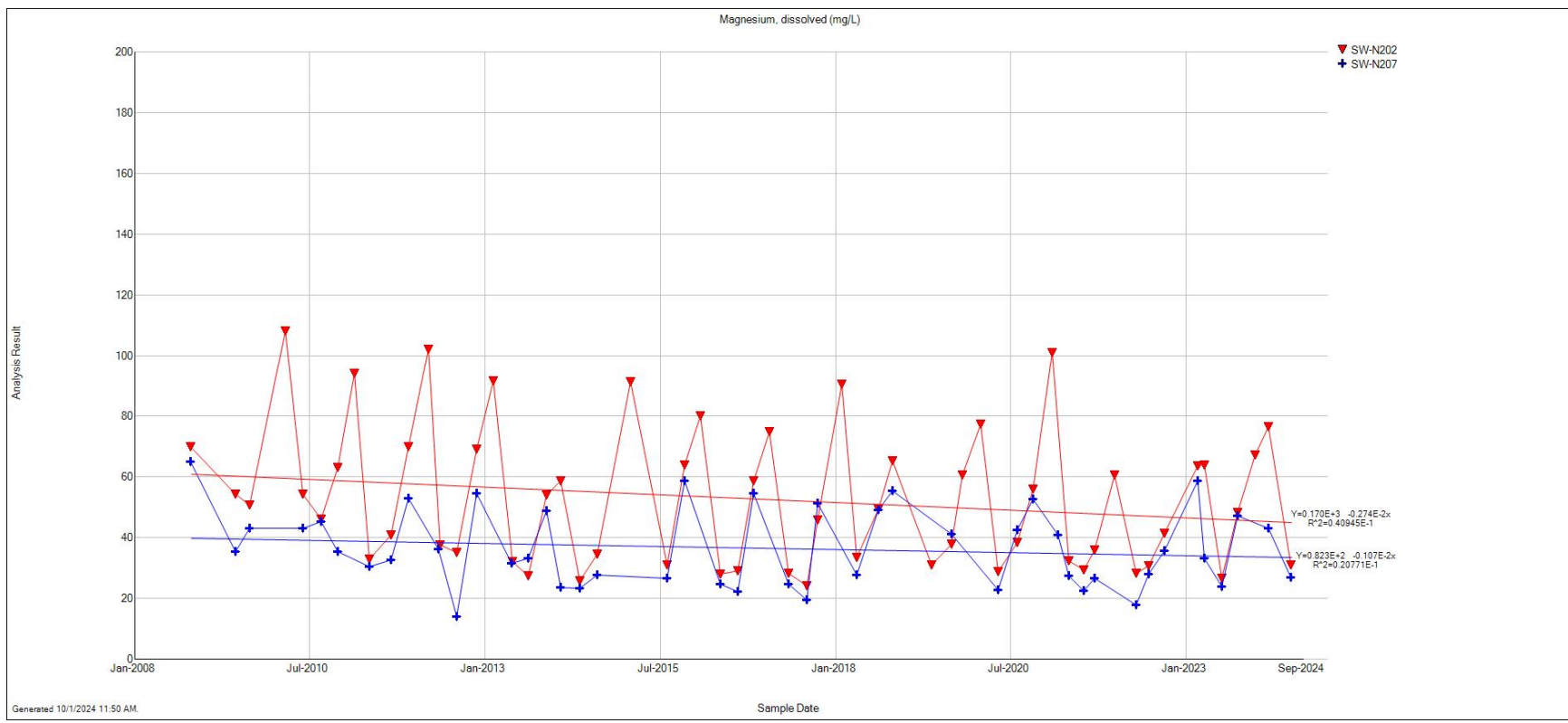
	10/23/2023	1/23/2024	4/2/2024	7/30/2024
Al, tot rec, ug/L	96	Dry	<50	78
As, tot rec, ug/L	0.85		0.65	1.3
Ca, diss, mg/L	190		77	150
Cd, tot rec, ug/L	<0.050		<0.050	<0.050
Cl, diss, mg/L	11		7.9	7.6
Cu, diss, mg/L	<0.00080		0.0012	<0.00080
Fe, tot rec, ug/L	290		34	82
HCO3, mg/L	410		160	300
Hg, tot, mg/L	<0.00020		<0.00020	<0.00020
Mg, diss, mg/L	69		15	43
Mn, diss, mg/L	<0.010		<0.010	0.022
Na, diss, mg/L	39		9.6	25
NH3 as N, diss, mg/L	<0.1		<0.1	<0.1
NO2, diss, mg/L	<0.010		<0.010	<0.010
NO3, diss, mg/L	<0.020		<0.020	0.096
Pb, tot rec, ug/L	0.41		0.11	0.12
pH (field), pH	8.4		8.1	8.2
pH (lab), pH	8.4		7.8	8
PO4, tot	0.099		0.13	0.29
SAR, ratio	0.62		0.26	0.46
Se, diss, mg/L	0.0002		0.0012	0.00037
SO4, diss, mg/L	440		120	250
Spec. Cond. (field), umhos/cm	1315		516	985
Spec. Cond. (lab), umhos/cm	1370		476	1020
TDS, mg/L	1100		370	780
Temp (Celcius), degrees C	8.3		3.6	14
TSS, mg/L	25		<5.0	<5.0
Zn, tot rec, mg/l	<0.020		<0.020	<0.020

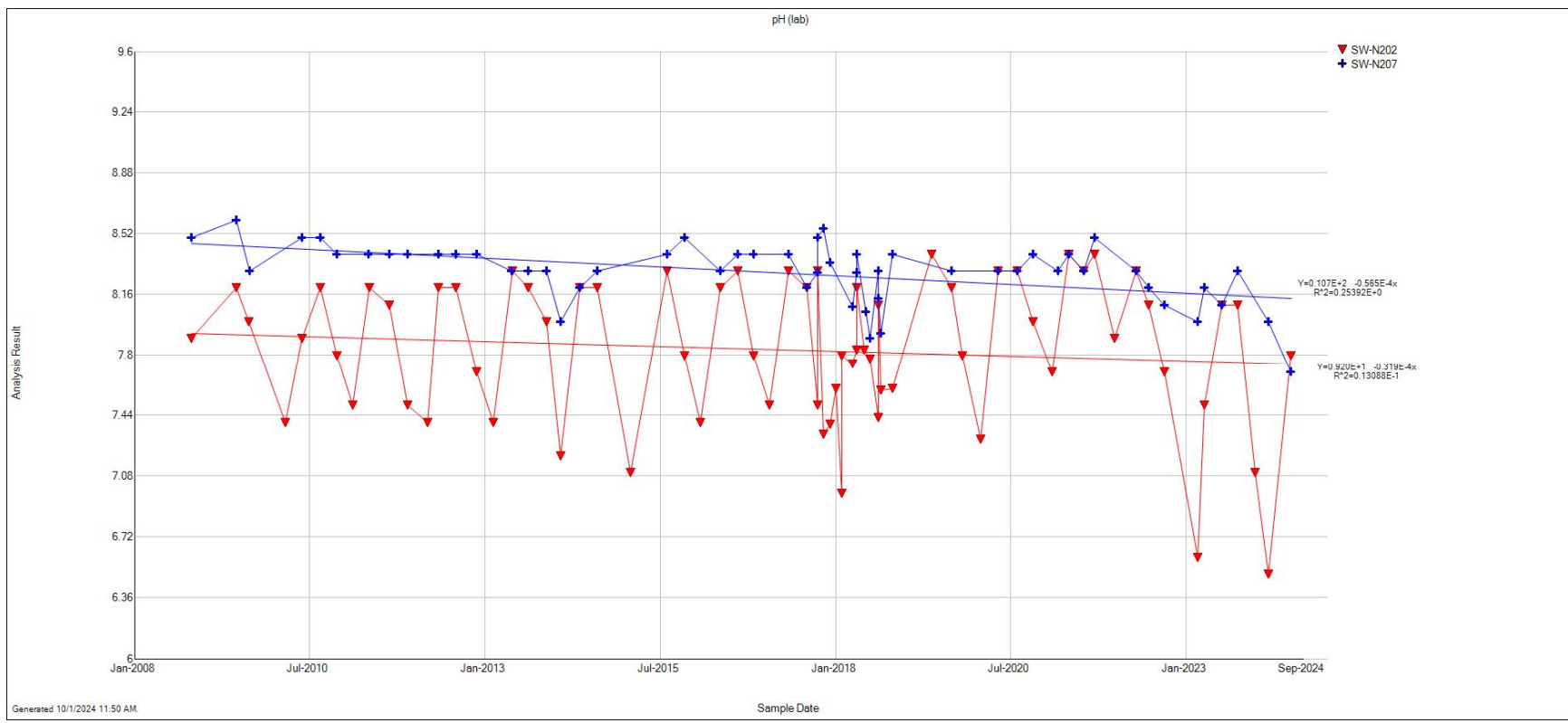
Appendix 2
Surface Water Monitoring Graphs

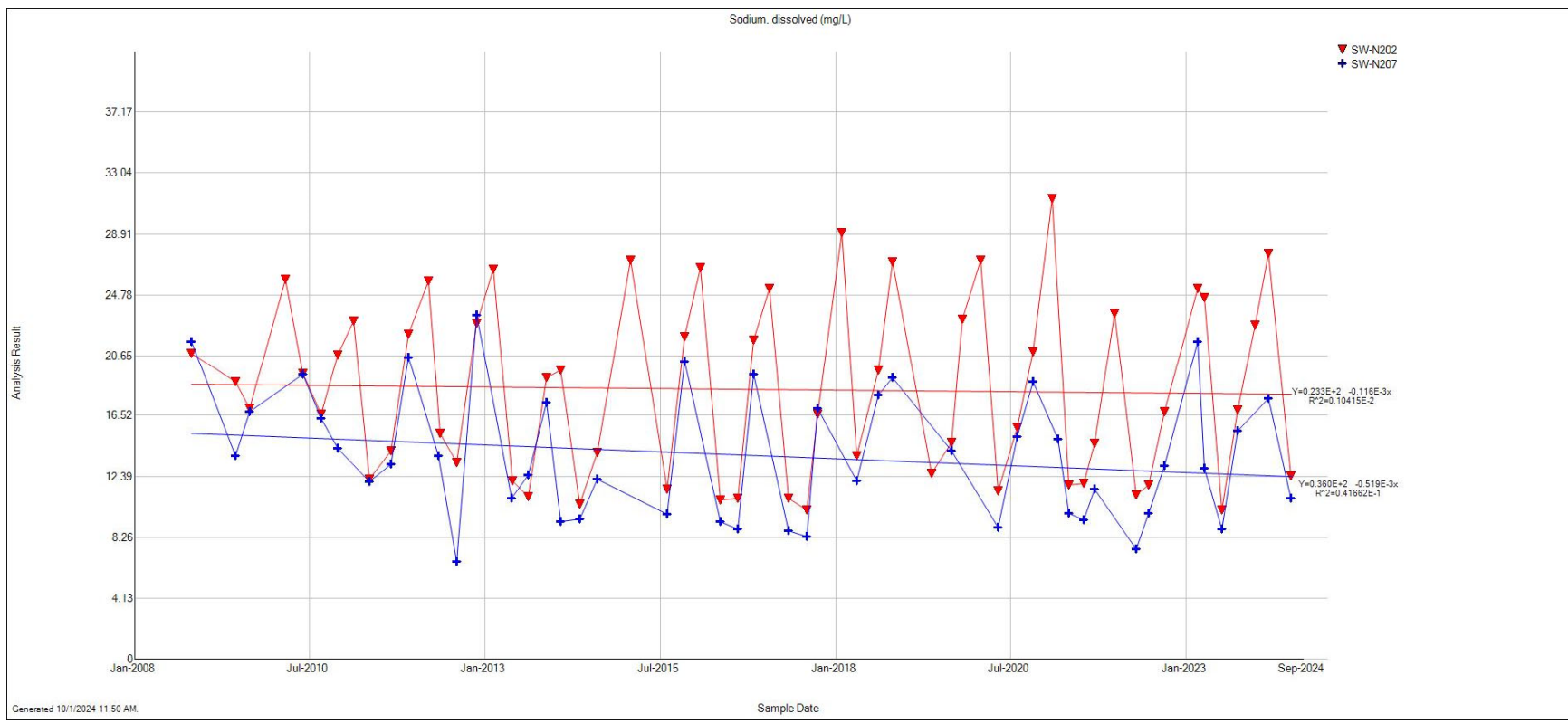


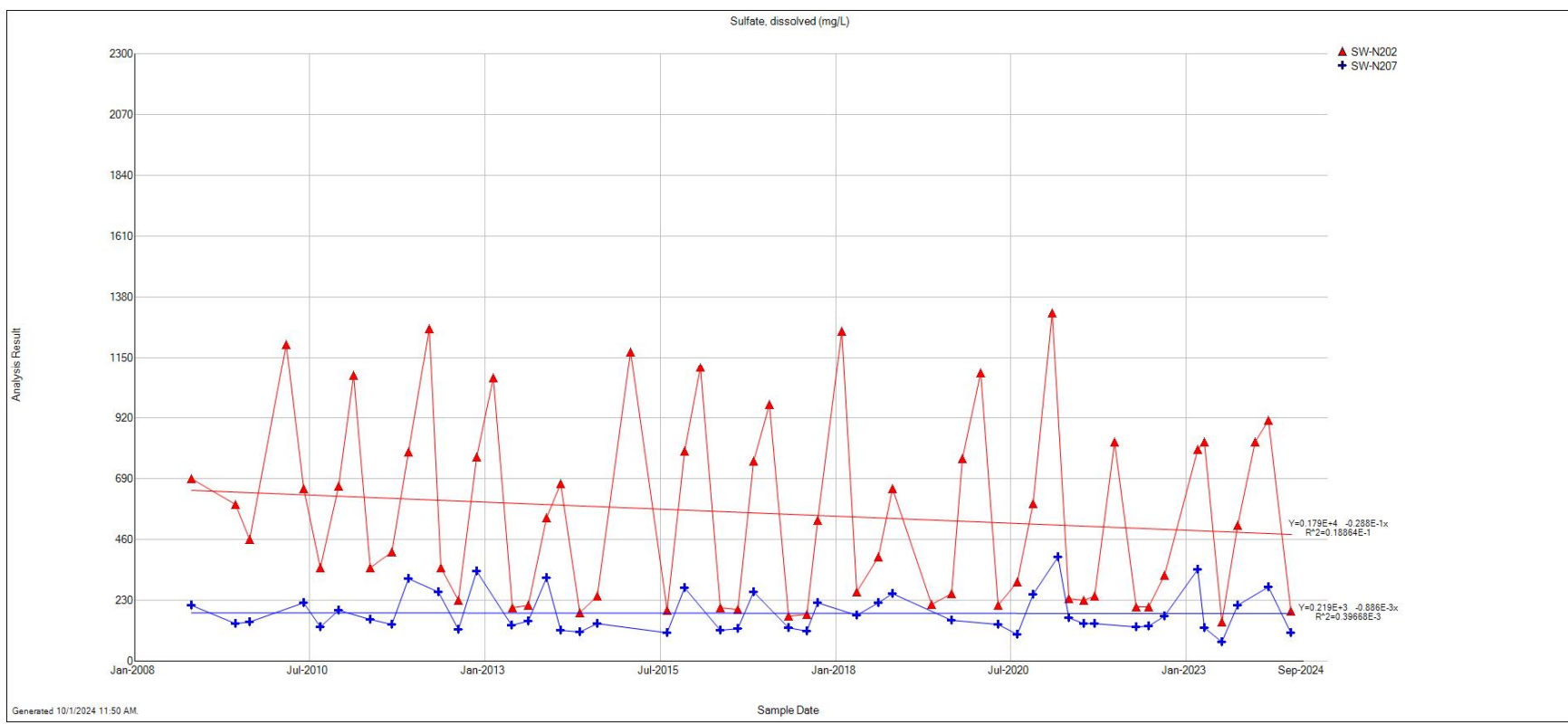


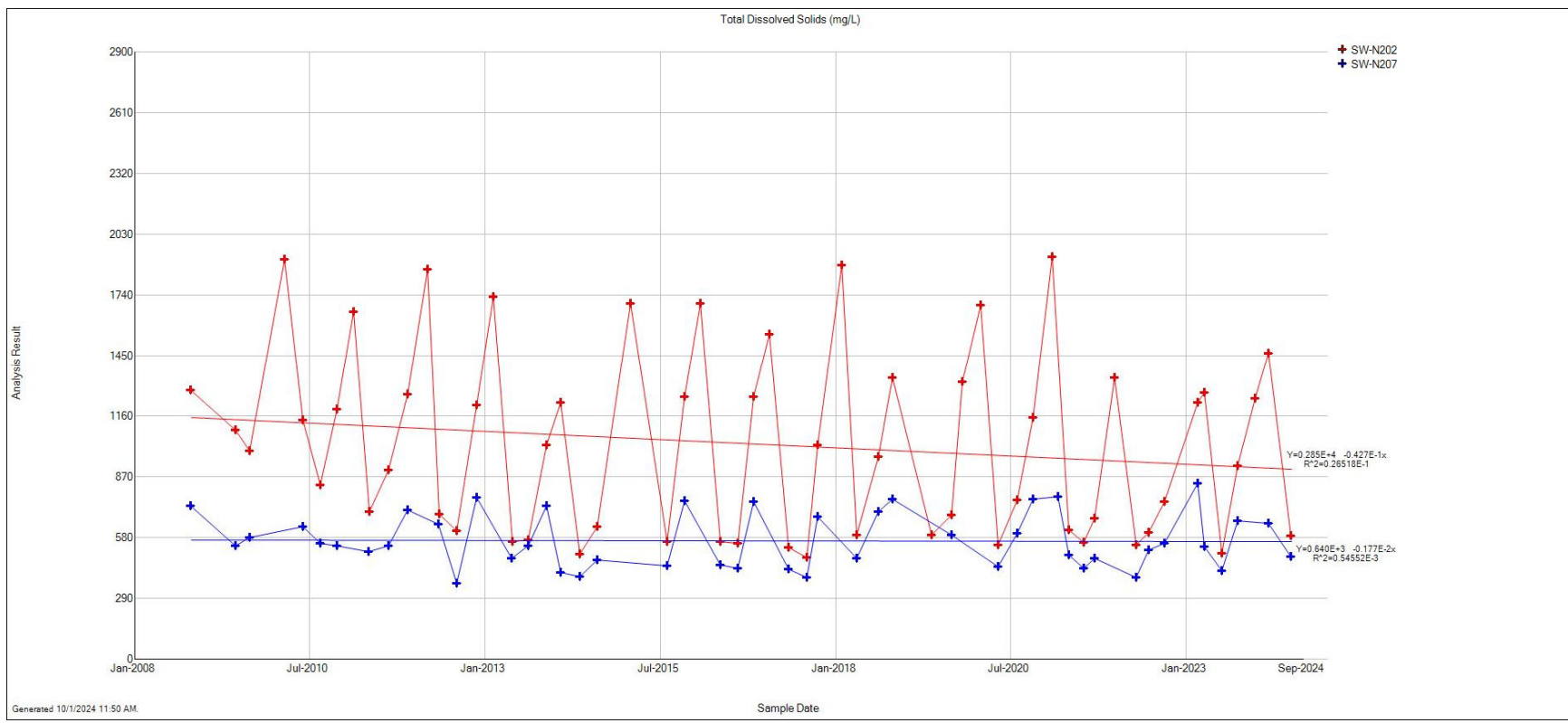


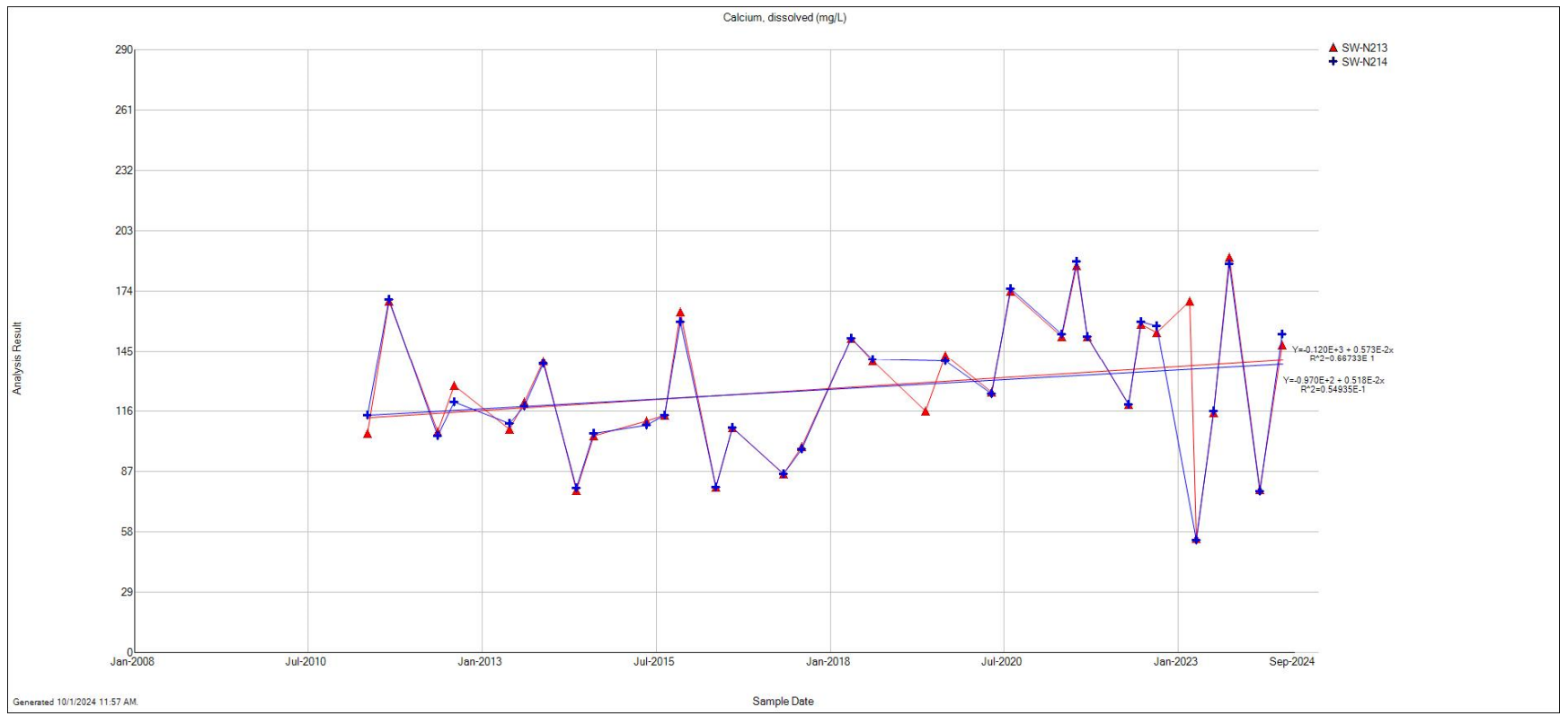


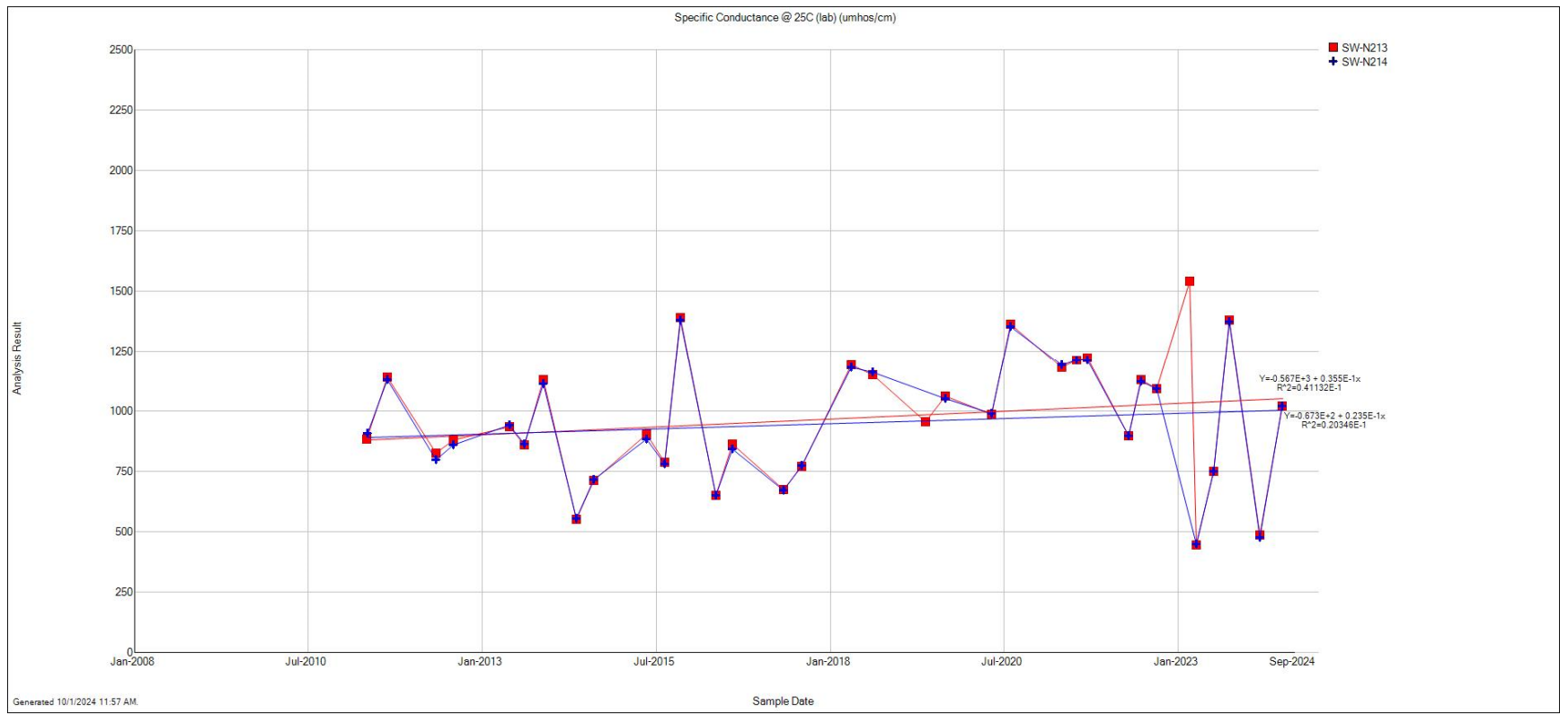


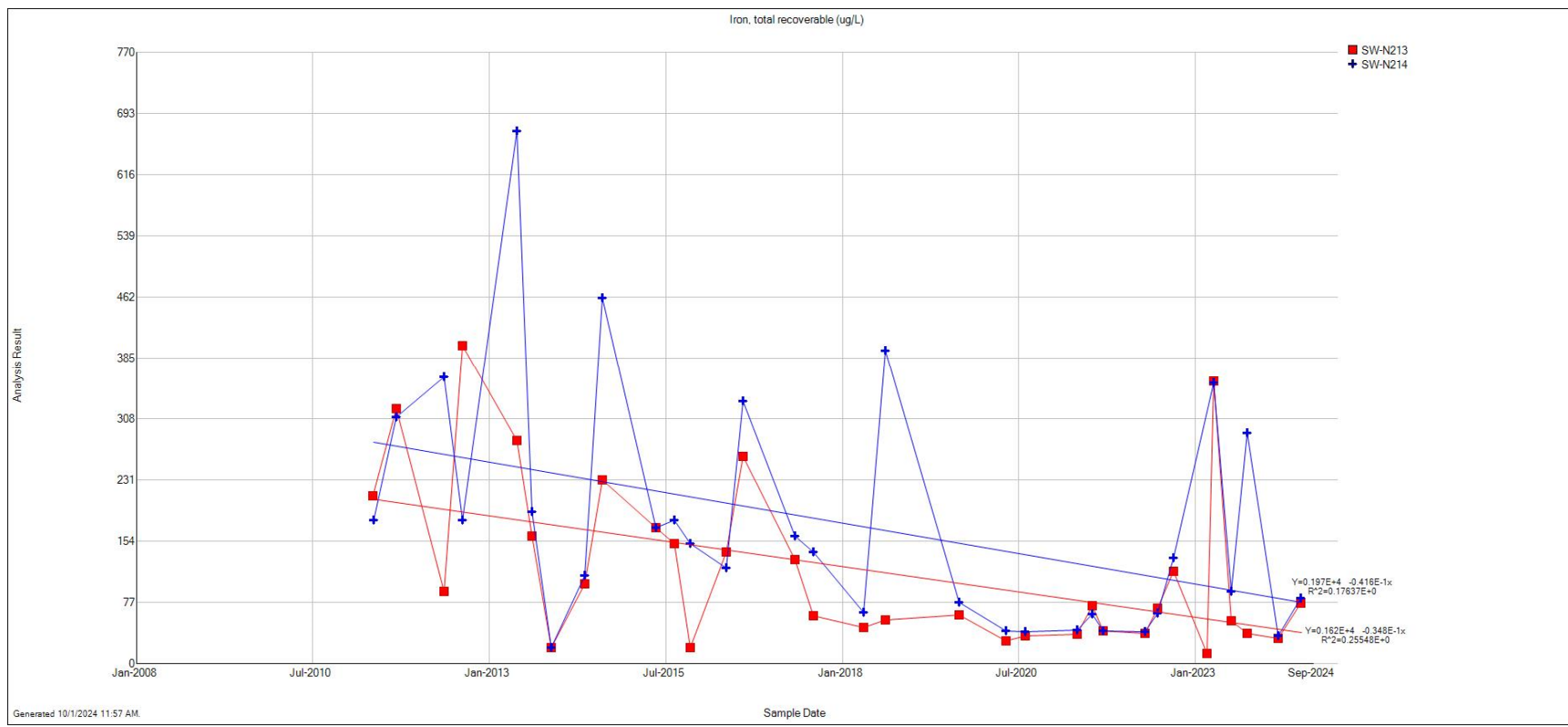


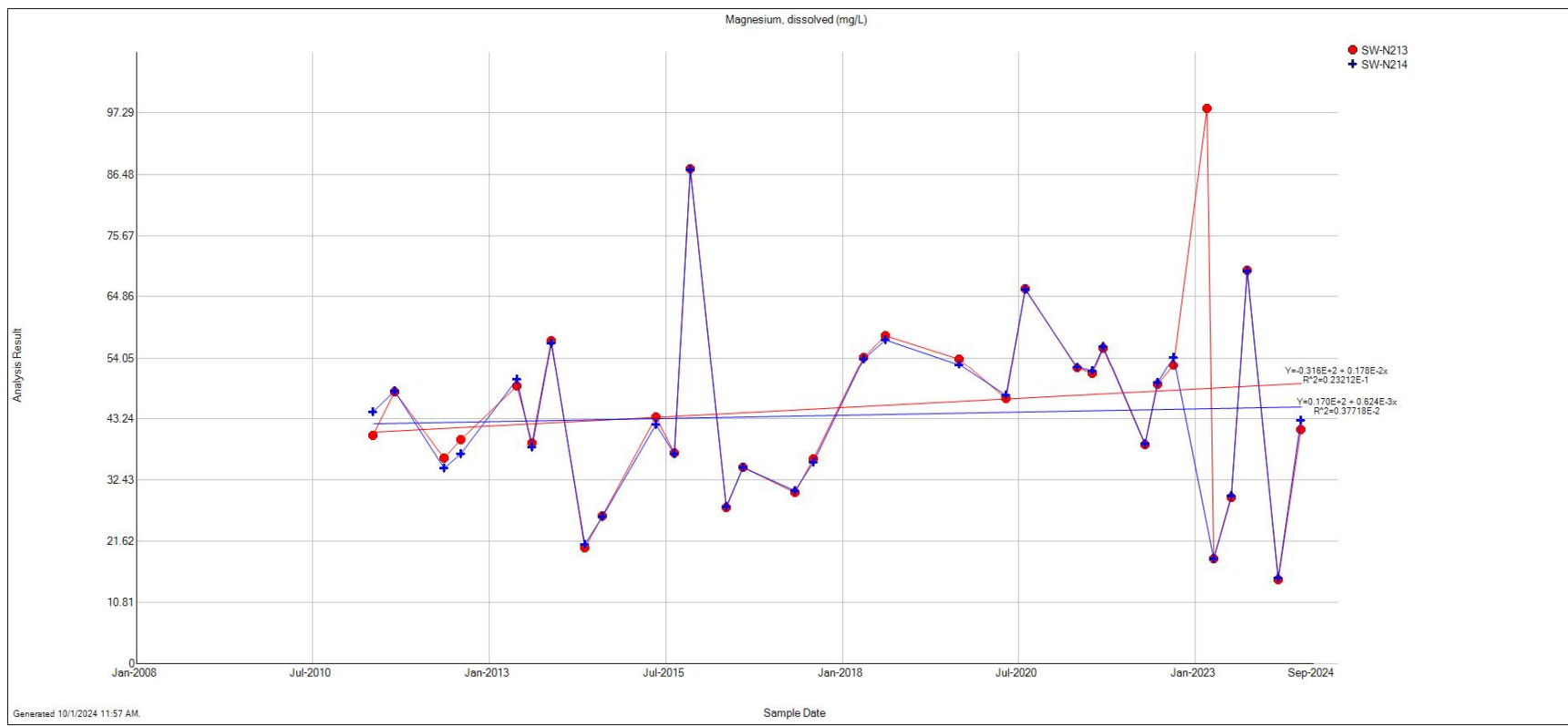


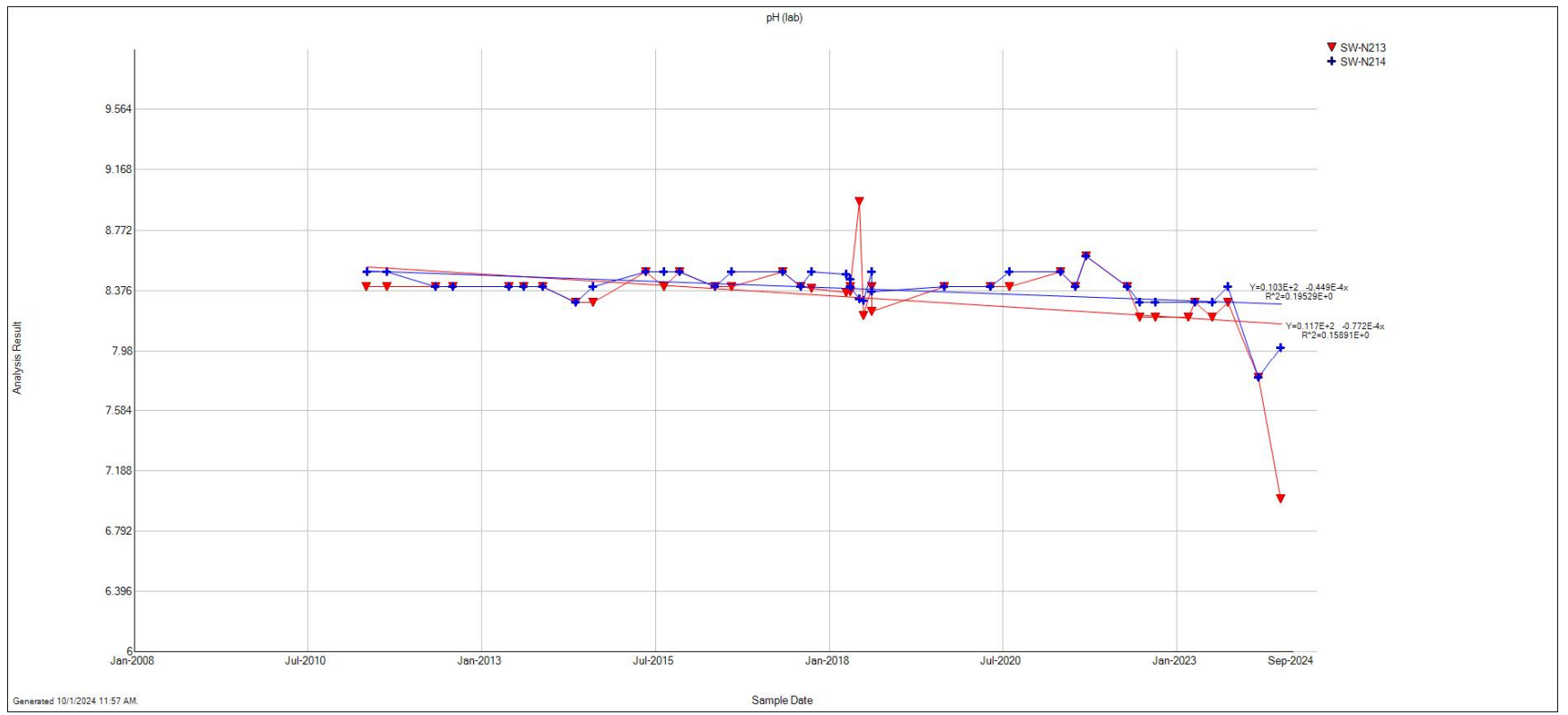


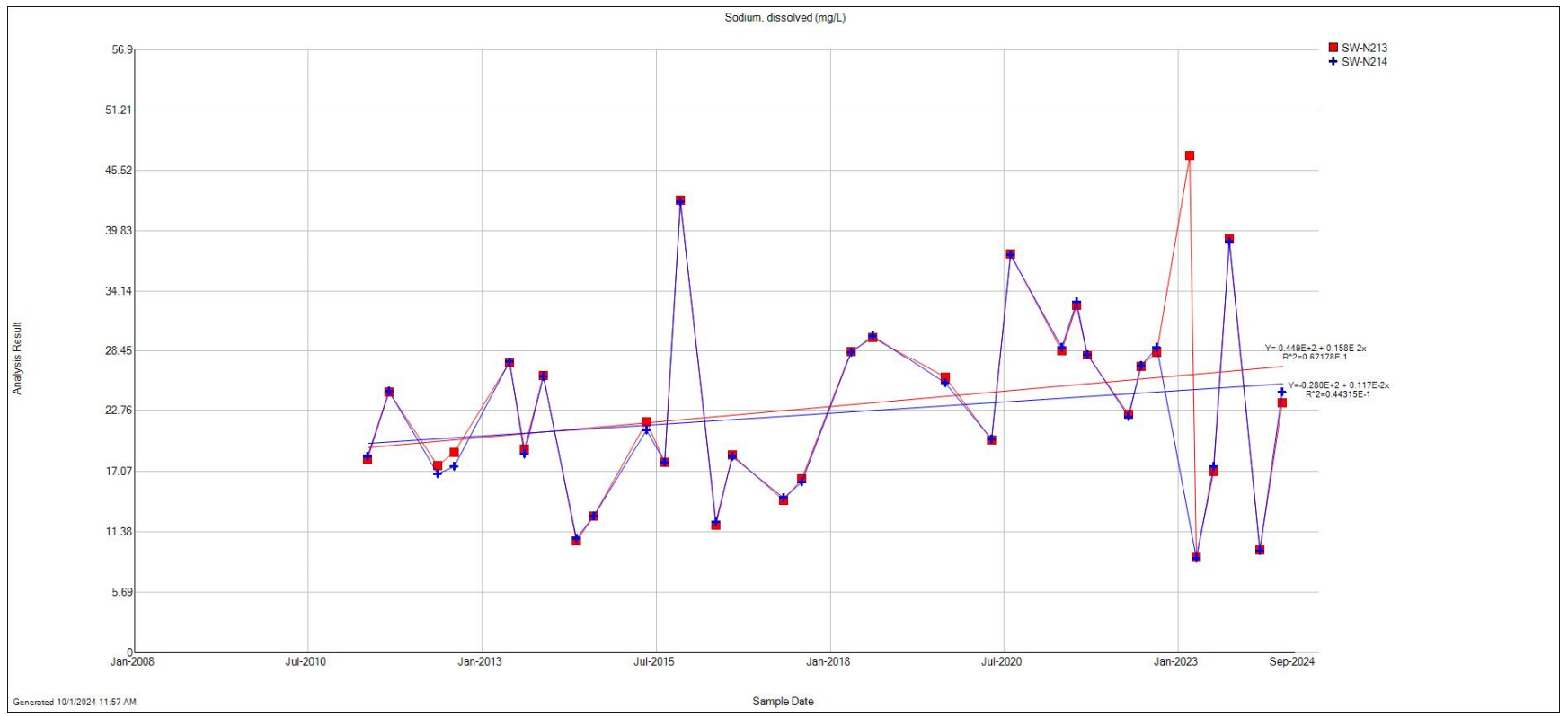


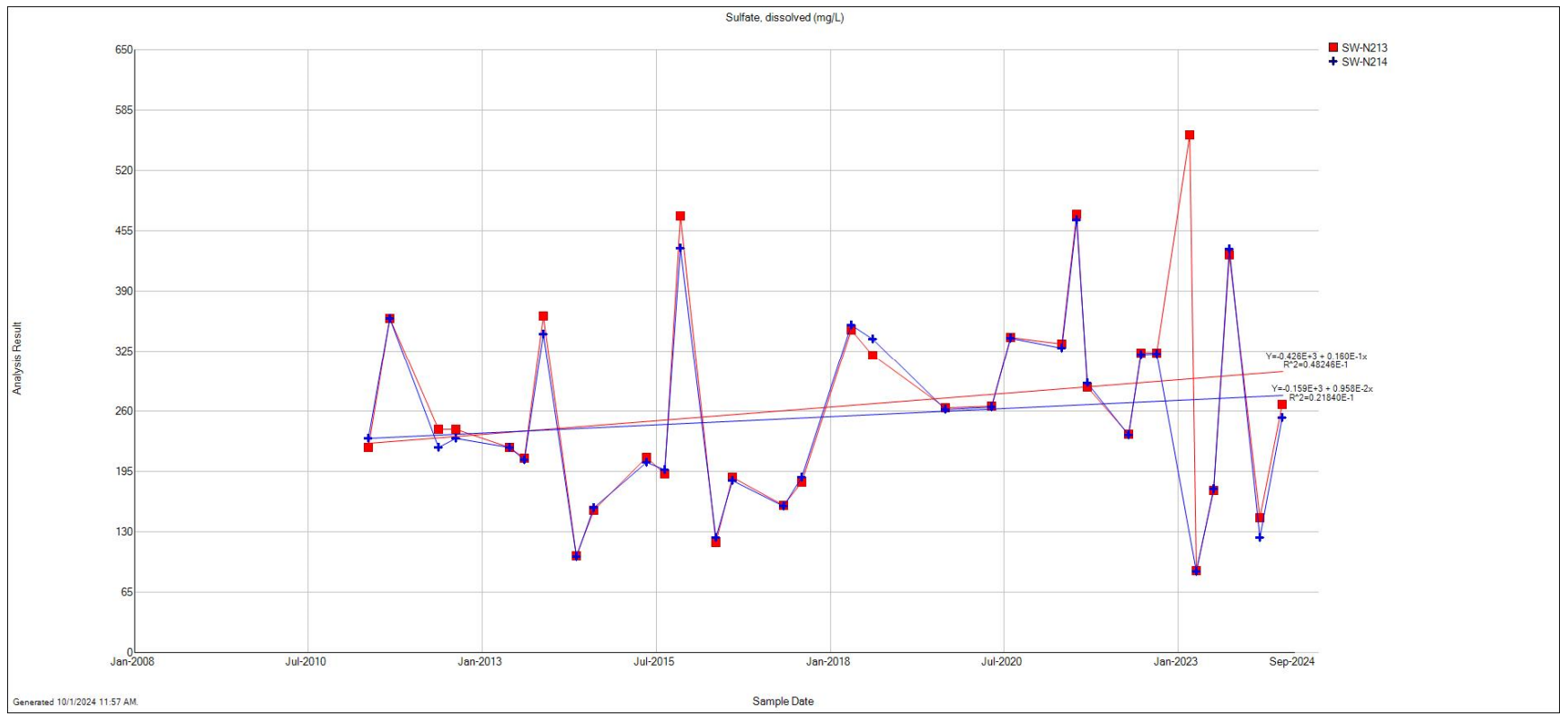


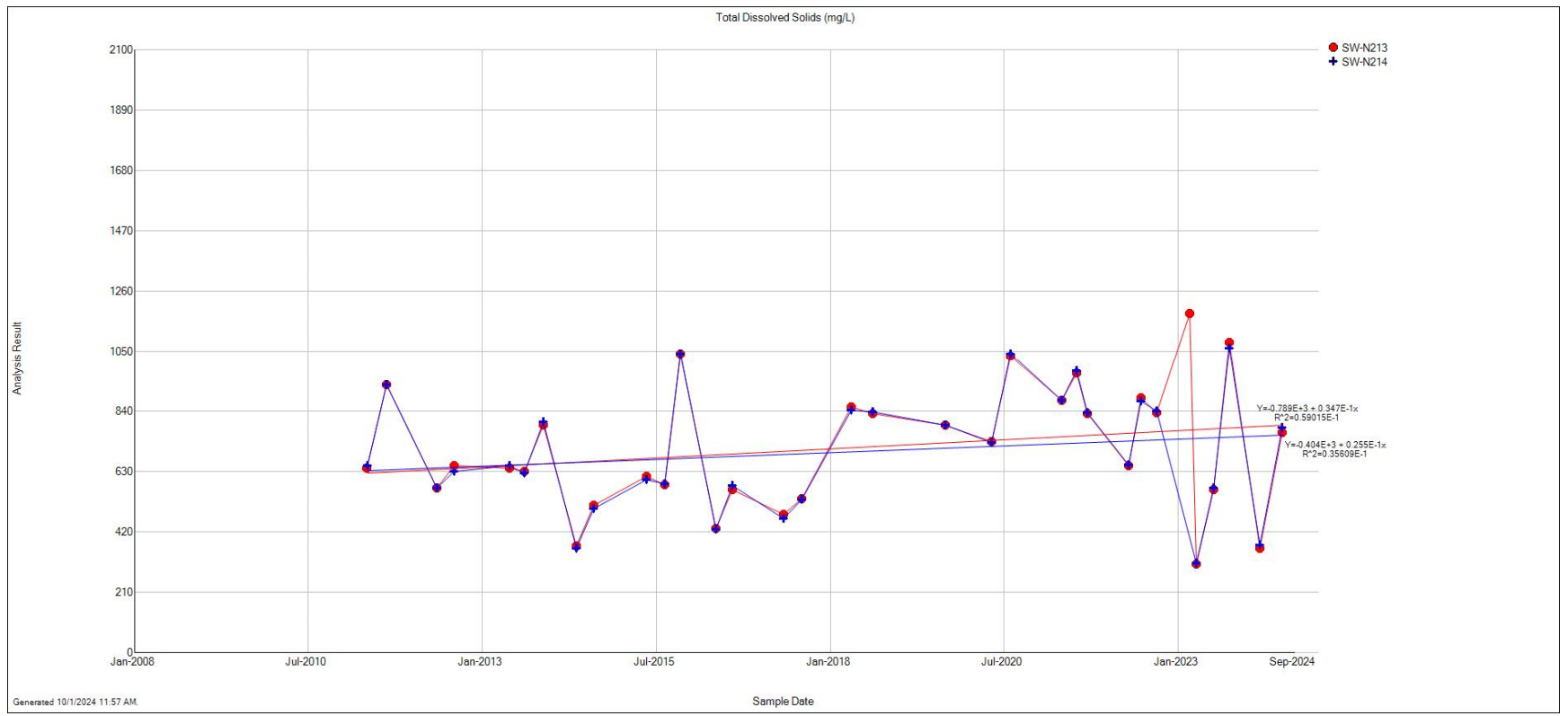












Appendix 3
Groundwater Monitoring Data

New Horizon North Mine**Analysis Results by Date (column) and Parameter (row)****Date Range: 10/01/2023 to 09/30/2024****Well: GW-N50**

	11/1/2023	1/24/2024	4/17/2024	9/5/2024
Al, diss, mg/L	<0.025	0.041	0.042	0.051
Alkalinity, lab, mg/L	560	710	650	480
As, diss, mg/L	<0.0010	<0.00040	0.00036	<0.00040
Ca, diss, mg/L	300	370	360	290
Cation-Anion Bal, %	0	0	-1.1	-2.9
Cl, diss, mg/L	46	44	46	33
CO ₃ , mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.34	0.39	0.85	0.52
HCO ₃ , mg/L	560	710	560	480
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	20	27	27	21
Mg, diss, mg/L	160	220	220	160
Mn, diss, mg/L	0.16	0.41	0.18	0.031
Mo, diss, mg/L	<0.10	<0.040	<0.020	<0.040
Na, diss, mg/L	99	140	140	100
NH ₃ as N, diss, mg/L	1	1.3	1.1	0.1
NO ₂ , diss, mg/L	0.042	0.02	0.021	0.043
NO ₃ , diss, mg/L	1.2	0.46	0.36	1.3
Orthophosphate, diss, mg/L	0.04	0.096	0.065	<0.030
Pb, diss, mg/L	<0.00050	<0.00020	0.00015	<0.00020
pH (field), pH	6.9	6.7	6.7	7.1
pH (lab), pH	7.8	7.6	7.2	7.5
Se, diss, mg/L	<0.00010	<0.00020	<0.00010	0.00053
SO ₄ , diss, mg/L	990	1400	1400	1100
Spec. Cond. (lab), umhos/cm	2708	3004	2946	2370
Spec. Cond. (field), umhos/cm	2550	3190	2900	2430
TDS, mg/L	1100	2800	2700	2100
Zn, diss, mg/L	<0.10	<0.040	0.04	<0.040

New Horizon North Mine
Analysis Results by Date
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N51

	11/1/2023	1/24/2024	4/17/2024	9/17/2024
Al, diss, mg/L	0.31	0.38	0.13	0.29
Alkalinity, lab, mg/L	32	27	39	33
As, diss, mg/L	0.0007	0.0007	0.00038	0.00049
Ca, diss, mg/L	85	84	91	86
Cation-Anion Bal, %	3.7	-0.5	0	-0.5
Cl, diss, mg/L	8.3	7.3	9.4	7.6
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	10	5.6	1.5	2.2
HCO3, mg/L	32	27	39	33
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	6	6.2	6.6	6.3
Mg, diss, mg/L	43	44	48	43
Mn, diss, mg/L	0.67	0.6	0.62	0.69
Mo, diss, mg/L	<0.020	<0.020	<0.020	<0.020
Na, diss, mg/L	24	24	28	25
NH3 as N, diss, mg/L	3.6	3.3	3.3	3.3
NO2, diss, mg/L	<0.010	<0.010	<0.010	<0.010
NO3, diss, mg/L	0.063	<0.020	0.03	0.03
Orthophosphate, diss, mg/L	0.053	0.056	0.043	0.16
Pb, diss, mg/L	0.00017	0.00022	0.00011	0.00013
pH (field), pH	5.2	5.1	5.4	5.4
pH (lab), pH	6.1	5.7	6.1	5.4
Se, diss, mg/L	<0.00010	<0.00010	<0.00010	<0.00010
SO4, diss, mg/L	400	430	440	410
Spec. Cond. (lab), umhos/cm	951	935	936	873
Spec. Cond. (field), umhos/cm	921	933	935	930
TDS, mg/L	710	740	730	710
Zn, diss, mg/L	0.55	0.49	0.55	0.55

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N52

	11/1/2023	1/24/2024	4/17/2024	9/17/2024
Al, diss, mg/L	0.0087	0.0057	0.028	0.014
Alkalinity, lab, mg/L	200	310	270	300
As, diss, mg/L	<0.00020	0.0044	0.00037	0.0003
Ca, diss, mg/L	130	160	130	190
Cation-Anion Bal, %	0	0	-1.6	0
Cl, diss, mg/L	3.7	6.1	6	7.4
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.06	0.27	0.18	0.029
HCO3, mg/L	200	310	270	300
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	0.79	2.2	1.2	1.4
Mg, diss, mg/L	15	40	27	27
Mn, diss, mg/L	<0.010	1.5	0.27	0.016
Mo, diss, mg/L	<0.020	<0.020	<0.020	<0.020
Na, diss, mg/L	7.3	14	11	11
NH3 as N, diss, mg/L	<0.10	0.88	0.2	<0.10
NO2, diss, mg/L	<0.010	<0.010	<0.010	0.081
NO3, diss, mg/L	0.025	0.13	0.21	0.43
Orthophosphate, diss, mg/L	<0.030	0.071	<0.030	0.037
Pb, diss, mg/L	<0.00010	<0.00010	0.00039	0.00019
pH (field), pH	6.5	6.6	6.7	6.8
pH (lab), pH	7.4	7.1	7.2	6.4
Se, diss, mg/L	0.00042	<0.00010	0.001	0.0016
SO4, diss, mg/L	190	250	190	260
Spec. Cond. (lab), umhos/cm	728	952	722	1043
Spec. Cond. (field), umhos/cm	728	1050	785	1060
TDS, mg/L	520	720	540	770
Zn, diss, mg/L	<0.020	<0.020	0.07	0.044

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N53

	10/26/2023	1/18/2024	4/4/2024	9/5/2024
Al, diss, mg/L	0.063	<0.010	0.02	<0.010
Alkalinity, lab, mg/L	550	540	550	540
As, diss, mg/L	0.00071	0.00077	0.00077	0.00068
Ca, diss, mg/L	340	350	360	340
Cation-Anion Bal, %	-5.9	-2	-1	-7.7
Cl, diss, mg/L	69	71	69	68
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.063	<0.014	0.038	0.035
HCO3, mg/L	550	540	550	540
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	34	35	38	34
Mg, diss, mg/L	270	290	300	270
Mn, diss, mg/L	0.051	0.076	0.06	0.043
Mo, diss, mg/L	<0.040	<0.040	<0.020	<0.040
Na, diss, mg/L	180	190	200	180
NH3 as N, diss, mg/L	2.8	2.7	2.6	2.9
NO2, diss, mg/L	0.17	0.17	0.19	0.13
NO3, diss, mg/L	0.42	0.38	0.54	0.49
Orthophosphate, diss, mg/L	0.047	<0.030	0.053	0.078
Pb, diss, mg/L	0.0011	<0.00020	0.00021	<0.00020
pH (field), pH	7.1	7.1	7.1	7.2
pH (lab), pH	7.8	7.9	7.7	6.9
Se, diss, mg/L	<0.00020	<0.00020	0.00047	0.00045
SO4, diss, mg/L	2000	1800	1900	2100
Spec. Cond. (field), umhos/cm	3538	3646	3490	3600
Spec. Cond. (lab), umhos/cm	3490	3560	3440	3630
TDS, mg/L	3200	3200	3300	3300
Zn, diss, mg/L	<0.040	<0.040	0.069	<0.040

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N54

	10/26/2023	1/18/2024	4/4/2024	9/17/2024
Al, diss, mg/L	<0.025	<0.010	<0.0050	<0.0050
Alkalinity, lab, mg/L	540	550	540	530
As, diss, mg/L	<0.0010	<0.00040	0.00027	0.00033
Ca, diss, mg/L	490	490	490	450
Cation-Anion Bal, %	-3.2	-14.3	-0.7	4.3
Cl, diss, mg/L	72	79	76	77
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.051	0.036	0.22	0.21
HCO3, mg/L	540	550	540	530
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	28	27	29	28
Mg, diss, mg/L	510	510	510	510
Mn, diss, mg/L	0.17	0.19	0.18	0.19
Mo, diss, mg/L	<0.10	<0.10	<0.10	<0.020
Na, diss, mg/L	180	180	190	180
NH3 as N, diss, mg/L	3.3	3.1	3.1	2.1
NO2, diss, mg/L	0.024	0.061	0.06	0.011
NO3, diss, mg/L	0.068	0.13	0.11	0.36
Orthophosphate, diss, mg/L	<0.030	<0.030	<0.030	0.037
Pb, diss, mg/L	<0.00050	<0.00020	<0.00010	<0.00010
pH (field), pH	6.9	6.9	7	3.9
pH (lab), pH	7.4	7.7	7.6	6.6
Se, diss, mg/L	<0.00050	<0.00020	<0.00010	<0.00010
SO4, diss, mg/L	3200	4100	3100	2600
Spec. Cond. (field), umhos/cm	4805	4901	4688	4340
Spec. Cond. (lab), umhos/cm	4690	4710	4590	4570
TDS, mg/L	5000	4800	5000	4500
Zn, diss, mg/L	<0.10	<0.10	0.12	<0.020

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N55

	10/26/2023	1/24/2024	4/4/2024	9/17/2024
Al, diss, mg/L	<0.050	<0.0050	<0.0050	0.0062
Alkalinity, lab, mg/L	780	770	770	740
As, diss, mg/L	<0.0020	0.00038	0.00034	0.00034
Ca, diss, mg/L	410	430	440	430
Cation-Anion Bal, %	-3.6	2.3	4.1	1.6
Cl, diss, mg/L	160	150	140	140
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	1.2	0.82	0.56	0.66
HCO3, mg/L	780	770	770	740
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	25	28	31	29
Mg, diss, mg/L	2000	2100	2500	2300
Mn, diss, mg/L	1.1	1.2	1.4	1.2
Mo, diss, mg/L	<0.20	<0.20	<0.20	<0.020
Na, diss, mg/L	260	260	290	300
NH3 as N, diss, mg/L	3	3.2	3.1	3.3
NO2, diss, mg/L	<0.010	0.012	0.03	<0.010
NO3, diss, mg/L	0.063	0.073	0.096	0.072
Orthophosphate, diss, mg/L	0.05	0.12	0.05	0.065
Pb, diss, mg/L	<0.0010	<0.00010	<0.00010	<0.00010
pH (field), pH	6.7	6.7	6.8	6.9
pH (lab), pH	7.5	7.4	7.4	6.7
Se, diss, mg/L	<0.0010	0.0014	<0.00010	<0.00010
SO4, diss, mg/L	9300	8300	9700	9600
Spec. Cond. (field), umhos/cm	10820	10210	11080	10450
Spec. Cond. (lab), umhos/cm	10400	9620	10400	10500
TDS, mg/L	13000	13000	14000	14000
Zn, diss, mg/L	<0.20	<0.20	<0.20	<0.020

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N56

	10/4/2023	1/10/2024	4/3/2024	7/16/2024
Al, diss, mg/L	<0.010	<0.025	<0.0050	<0.010
Alkalinity, lab, mg/L	640	630	640	700
As, diss, mg/L	0.00045	<0.0010	0.00043	0.0014
Ca, diss, mg/L	510	470	500	520
Cation-Anion Bal, %	1.3	-8.3	-0.6	0.7
Cl, diss, mg/L	44	38	47	33
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.18	0.069	0.22	0.12
HCO3, mg/L	640	630	640	700
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	32	30	33	29
Mg, diss, mg/L	540	490	530	530
Mn, diss, mg/L	0.58	0.6	0.67	0.64
Mo, diss, mg/L	<0.040	<0.10	<0.10	<0.10
Na, diss, mg/L	170	160	170	160
NH3 as N, diss, mg/L	3.1	3.1	3.2	2.8
NO2, diss, mg/L	<0.010	<0.010	<0.010	<0.010
NO3, diss, mg/L	<0.020	0.11	<0.020	<0.020
Orthophosphate, diss, mg/L	0.071	0.081	0.047	0.068
Pb, diss, mg/L	<0.00020	<0.00050	<0.00010	<0.00020
pH (field), pH	6.7	6.7	6.7	6.8
pH (lab), pH	7.5	7.5	7.5	7.5
Se, diss, mg/L	<0.00020	<0.00050	<0.00010	<0.00020
SO4, diss, mg/L	2900	3400	3000	2900
Spec. Cond. (field), umhos/cm	4906	4884	4797	4745
Spec. Cond. (lab), umhos/cm	4740	4720	4580	4370
TDS, mg/L	4700	4800	5000	5200
Zn, diss, mg/L	<0.040	<0.10	0.11	<0.10

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N57

	10/4/2023	1/10/2024	4/3/2024	7/17/2023
Al, diss, mg/L	0.034	<0.025	<0.0050	<0.0050
Alkalinity, lab, mg/L	670	710	680	720
As, diss, mg/L	0.00065	<0.0010	0.00075	0.00053
Ca, diss, mg/L	520	520	560	530
Cation-Anion Bal, %	-0.6	-1.8	3.4	-2.8
Cl, diss, mg/L	33	26	26	25
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.35	0.35	0.64	1
HCO3, mg/L	670	710	680	720
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	29	28	30	28
Mg, diss, mg/L	620	610	650	630
Mn, diss, mg/L	0.75	0.75	0.8	0.77
Mo, diss, mg/L	<0.040	<0.10	<0.10	<0.10
Na, diss, mg/L	160	160	170	160
NH3 as N, diss, mg/L	3.8	3.4	3.5	3.3
NO2, diss, mg/L	<0.010	<0.010	<0.010	<0.010
NO3, diss, mg/L	<0.020	<0.020	<0.020	0.028
Orthophosphate, diss, mg/L	<0.030	0.059	<0.030	0.074
Pb, diss, mg/L	<0.00020	<0.00050	<0.00010	<0.00010
pH (field), pH	6.6	6.6	6.6	6.7
pH (lab), pH	7.3	7.4	7.5	7.3
Se, diss, mg/L	<0.00020	<0.00050	<0.00010	<0.00010
SO4, diss, mg/L	3400	3400	3300	3600
Spec. Cond. (field), umhos/cm	5381	5500	5289	4121
Spec. Cond. (lab), umhos/cm	5190	5260	5040	5060
TDS, mg/L	5500	5600	5700	5700
Zn, diss, mg/L	<0.040	<0.10	0.14	<0.10

New Horizon North Mine
Analysis Results by Date (column) and Parameter (row)
Date Range: 10/01/2023 to 09/30/2024
Well: GW-N58

	10/4/2023	1/11/2024	4/3/2024	9/17/2024
Al, diss, mg/L	<0.010	<0.025	<0.0050	<0.0050
Alkalinity, lab, mg/L	630	650	650	630
As, diss, mg/L	0.00082	<0.0010	0.00071	0.00047
Ca, diss, mg/L	480	470	500	470
Cation-Anion Bal, %	-0.5	4	-3	5.6
Cl, diss, mg/L	34	27	28	26
CO3, mg/L	<2.0	<2.0	<2.0	<2.0
Fe, diss, mg/L	0.86	0.94	0.87	2.3
HCO3, mg/L	630	650	650	630
Hg, diss, mg/L	<0.00020	<0.00020	<0.00020	<0.00020
K, diss, mg/L	26	26	28	28
Mg, diss, mg/L	730	740	780	880
Mn, diss, mg/L	1.1	1.1	1.1	1.2
Mo, diss, mg/L	<0.040	<0.10	<0.10	<0.020
Na, diss, mg/L	160	150	160	170
NH3 as N, diss, mg/L	2.4	2.1	2.1	2.2
NO2, diss, mg/L	<0.010	<0.010	<0.010	<0.010
NO3, diss, mg/L	<0.020	<0.020	<0.020	0.027
Orthophosphate, diss, mg/L	0.081	0.053	<0.030	0.034
Pb, diss, mg/L	<0.00020	<0.00050	<0.00010	<0.00010
pH (field), pH	6.6	6.5	6.6	6.7
pH (lab), pH	7.6	7.4	7.4	6.6
Se, diss, mg/L	<0.00020	<0.00050	<0.00010	0.00014
SO4, diss, mg/L	3800	3400	4300	3800
Spec. Cond. (field), umhos/cm	5683	5584	5613	5590
Spec. Cond. (lab), umhos/cm	5440	5580	5380	5820
TDS, mg/L	5700	6100	6200	5700
Zn, diss, mg/L	<0.040	<0.10	0.14	0.037

Appendix 4
Groundwater Monitoring Graphs

