

February 28, 2022

Ms. Amy Eschberger
Colorado Division of Reclamation, Mining, and Safety
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

Subject: Fourth Quarter 2021 Sampling Results,
Schwartzwalder Mine, Golden Colorado,
Mine Land Reclamation Permit No. M-1977-300.

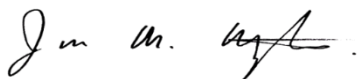
Dear Ms. Eschberger:

The fourth quarter sampling event at the Schwartzwalder Mine was conducted by Ensero Solutions US, Inc. (Ensero) field staff from October 12th to October 21st and December 8th. Access to sample location MW-0, MW-00, SW-NWRP, and SW-AWD was prohibited by reclamation activities during the first sampling attempt, so the sites were revisited on December 8th. In addition to presenting sample data, CLL is including the Schwartzwalder Mine Schematic – Q4 2021 to illustrate the groundwater divide between the mine pool and Ralston Creek. During the fourth quarter sampling event, all samples of Ralston Creek taken within the permit boundary were below the Colorado drinking water standard for uranium, 30 µg/L.

- **Surface Water Data:** There are 13 quarterly surface water (SW) sampling locations. Figure 1 shows the location of each surface water sample locations along Ralston Creek. Table 2a summarizes surface water field parameters. Table 2b summarizes the analytical data results. The analytical laboratory data report and the chain of custody are attached to this report. A copy of the electronic data deliverable (EDD) excel file for these samples are included in this submittal.
- **Groundwater Data:** There are 13 quarterly groundwater monitoring well (MW) locations. Table 1 shows the monitoring well elevations. Figure 2 shows the location of each MW. Table 3a summarizes groundwater field parameters. Table 3b summarizes the analytical data results. The analytical laboratory data report and the chain of custody are attached to this report. A copy of the EDD excel file for these samples are included in this submittal.
- **Mine Pool Elevations:** Table 4 summarizes the mine pool elevations for the quarter. Pumping of the mine pool has consistently maintained the mine pool elevation below the regulatory limit of 150 feet (ft) below the Steve Level even during months of no pumping. Maintaining the mine pool below the regulatory limit has established a hydraulic gradient away from Ralston Creek, preventing mine water from entering the creek in the permit area.

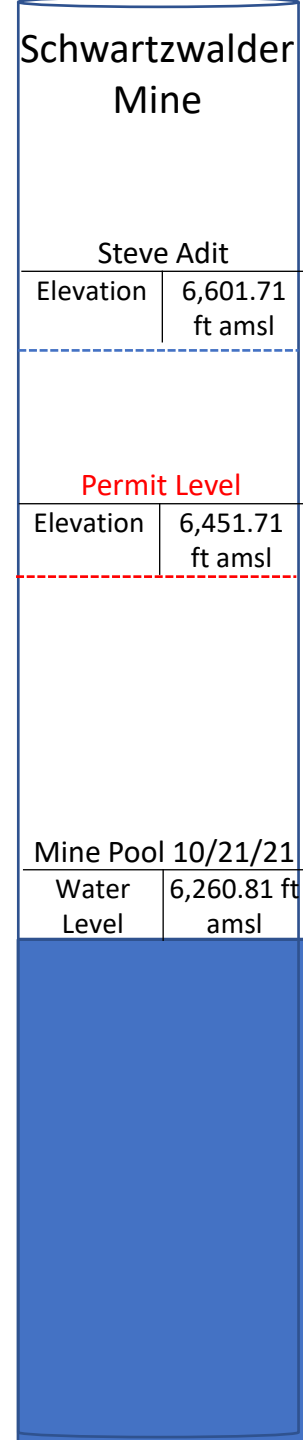
If you have any questions regarding this letter, please do not hesitate to contact me.

Sincerely,



Jim Harrington, Managing Director
COLORADO LEGACY LAND
Jim@ColoradoLegacy.Land

cc: Paul Newman – CLL, Managing Director, paul@coloradolegacy.land
Eric Williams – CLL, Managing Director, eric@coloradolegacy.land
Billy Ray – Ensero, Site Manager, bray@ensero.com
Allan Steckelberg – Ensero, VP Construction & Risk, asteckelberg@ensero.com
Elizabeth Busby – Ensero, Project Manager, ebusby@ensero.com
Dan Arnold – Denver Water, Attorney, daniel.arnold@denverwater.org
Eric Mink – CDPHE, WQCD, eric.mink@state.co.us
Evelyn Rhodes – City of Arvada, Water Quality Administrator, erhodes@arvada.org
Brad Wyant – City of Arvada, Water Treatment Manager, bwyant@arvada.org



Schwartzwalder Mine	
Steve Adit	
Elevation	6,601.71 ft amsl
Permit Level	
Elevation	6,451.71 ft amsl
Mine Pool 10/21/21	
Water Level	6,260.81 ft amsl
MW-15 Screened Interval	
Range	5,937.53 ft amsl - 5,897.53 ft amsl

MW-15 Top of Casing	
Elevation	6,899.33 ft amsl
MW-15 (10/12/21)	
Water Level	6,476.53 ft amsl
Total U	0.0313 mg/L
SW-FBRG (10/21/2021)	
Elevation	6,489.65 ft amsl
Flow	No Flow
Total U	No Sample
MW-15 Screened Interval	
Range	5,937.53 ft amsl - 5,897.53 ft amsl

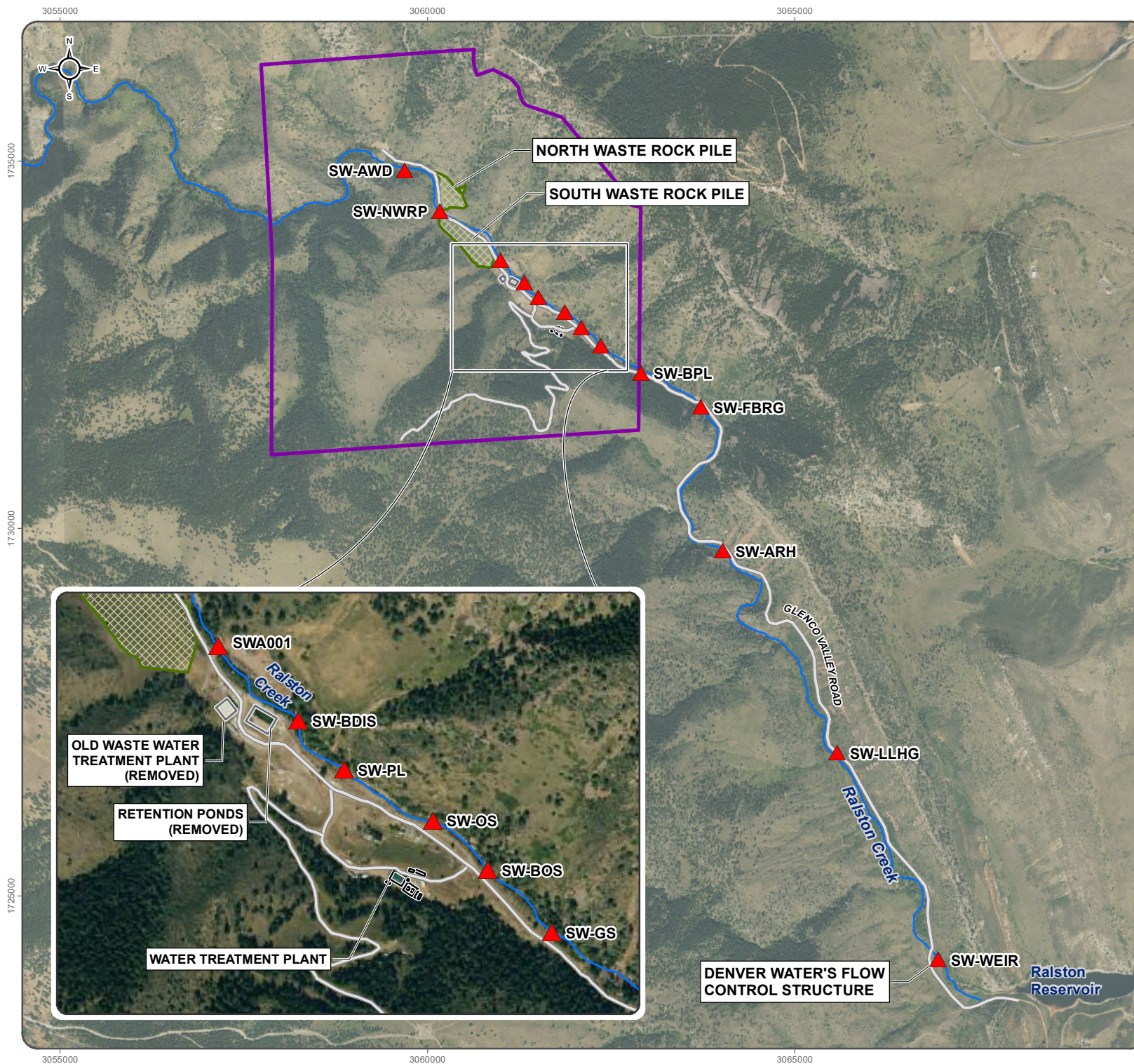
SW-AWD (12/08/2021)	
Elevation	6,636.37 ft amsl
Flow	0.41 cfs
Total U	0.00364 mg/L
SW-NWRP (12/08/2021)	
Elevation	6,626.91 ft amsl
Flow	0.60 CFS
Total U	0.00131 mg/L
SW-BPL (10/21/2021)	
Elevation	6,522.53 ft amsl
Flow	No Flow
Total U	No Sample
SW-ARH (10/21/2021)	
Elevation	6,364.04 ft amsl
Flow	0.077 CFS
Total U	0.109 mg/L
SW-LLHG (10/21/2021)	
Elevation	6,158.46 ft amsl
Flow	No Flow
Total U	No Sample
SW-WEIR (10/21/2021)	
Elevation	6,069.11 ft amsl
Flow	No Flow
Total U	No Sample

Schwartzwalder Mine

Schematic – Q4 2021

Total U = Total Uranium Concentration
Ft amsl = Feet above mean sea level (elevation)
CFS = cubic feet per second

Ralston Creek



COLORADO LEGACY LAND SCHWARTZWALDER MINE

FIGURE 1

SURFACE WATER QUALITY MONITORING LOCATIONS

SEPTEMBER 2020



- ▲ Surface Water Quality Monitoring Station
- ▭ CLL Property Boundary
- ▭ Building, Existing
- ▭ Reclaimed Mine Feature
- ▨ Waste Rock Dump
- Road
- Watercourse

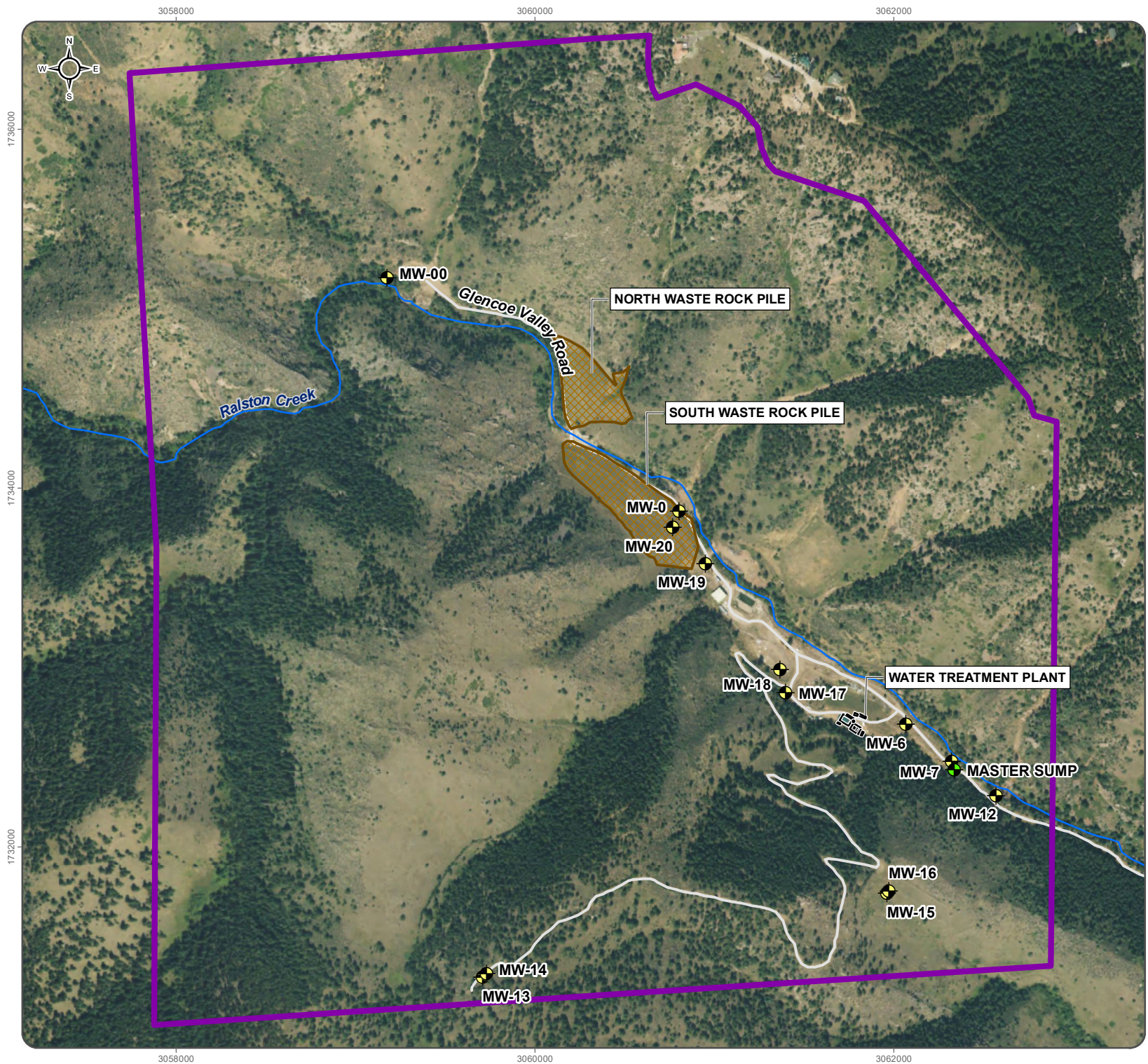
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0 500 1,000 1,500 2,000
Feet



Satellite imagery obtained from ArcGIS on services.arcgis.com on September 2020

Datum: NAD 1983 (CORS96) StatePlane Colorado Central FIPS 0502 (US Feet)

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COLORADO LEGACY LAND SCHWARTZWALDER MINE

FIGURE 2
**GROUNDWATER MONITORING
LOCATIONS**

OCTOBER 2020



- GW Monitoring Well
- Pumpback Sump
- CLL Property Boundary
- Waste Rock Dump
- Existing Mine Feature Footprint
- Glencoe Valley Road
- Ralston Creek

1:9,000 when printed on 8x11 inch paper



Satellite imagery obtained from ArcGIS on
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Datum: NAD 1983 (CORS96) StatePlane Colorado Central FIPS
0502 (US Feet)

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TABLE 1: GROUNDWATER SAMPLE LOCATIONS

Location ID / Sample ID	Installation Date	Northing (feet) ^{1,2}	Easting (feet) ^{1,2}	Ground Surface Elevation ¹ (ft amsl)	Casing Elevation ¹ (ft amsl)	Total Depth (ft bgs)	Well Construction Details	Screened Interval (ft bgs)	Notes
MW-00	10/29/1998	1,733,874.25	3,060,802.43	6,608.26	6,610.26	27.5	4-inch PVC, 0.03-in slot.	16.9-26.9	Screened interval interpreted from field boring log.
MW-0	Unknown, construction paper filed on 11/20/1992	1,735,174.35	3,059,175.16	6,666.64	6,667.64	23.0	2.5-inch PVC	15.0-20.0	No information exists for this boring log. Screened interval is taken from MW permit application. 15.0-20.0 is listed as the proposed screened interval.
MW-6	06/20/1989	1,732,682.94	3,062,066.36	6,556.52	6,557.67	15.0	2-in Sch 40 PVC, 0.03-in slot	5.0-15.0	
MW-7	06/20/1989	1,732,478.75	3,062,321.26	6,546.02	6,547.62	11.0	2-in Sch 40 PVC	5.0-10.0	
MW-12	November 2008 (According to EPP)	1,732,287.92	3,062,569.09	6,545.46	6,547.58	17.0	2-in PVC	12.0-17.0	Missing boring log and construction form. Was drilled to the be “downgradient alluvium compliance well”.
MW-13	09/06/2012	1,731,272.17	3,059,706.76	7,401.87	7,403.32	500.8	2-in Sch 40 PVC, 0.04-in slot	459.76-499.76	Nitrogen. Bladder pump in well.
MW-14	09/04/2012	1,731,293.55	3,059,730.06	7,401.32	7,402.39	154.3	2.375-in Sch 80 PVC, 0.02-in slot	134.34-154.34	Nitrogen. Bladder pump in well. Installed Dry.
MW-15	11/03/2012	1,731,742.41	3,061,962.60	6,897.53	6,899.33	1,007.13	3-in Sch 40 PVC, 0.04-in slot	960.0-1,000.0	Nitrogen. Bladder pump in well.
MW-16	10/19/2012	1,731,756.51	3,061,972.30	6,898.42	6,900.32	324.7	2.375-in Sch 80 PVC, 0.02-in slot	300.0-320.0	No pump in well. Installed dry.
MW-17	09/22/2012	1,732,861.21	3,061,398.57	6,600.86	6,602.57	119.0	2.375-in Sch 80 PVC, 0.02-in slot	95.0-115.0	Nitrogen.
MW-18	10/11/2012	1,732,989.50	3,061,365.66	6,575.34	6,576.88	239.9	2.375-in Sch 80 PVC, 0.02-in slot	215.0-235.0	
MW-19	09/28/2012	1,733,579.59	3,060,949.50	6,603.93	6,606.07	21.6	2.375-in Sch 80 PVC, 0.02-in slot	10.0-20.0	
MW-20	11/06/2012	1,733,782.66	3,060,767.07	6,645.28	6,647.37	50.0	2.375-in Sch 80 PVC, 0.02-in slot	40.0-50.0	Installed dry.
Raw Feed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Spigot – inside water treatment plant. Mine pool water influent pumped from 400 ft below Steve to Water Treatment Plant. Raw Feed use to be called “Mine Refill”.
Sumps (Master Sump)	10/08/2010	1,732,431.06	3,062,337.59	6,544.66	6,547.21	6.0	N/A	N/A	Sample collected from Master Sump, commissioned 10/2020, previously Sump 1.

Citation:
¹ Locations surveyed by Lambert Land Consulting on 7/23/2020.

Notes:
² Coordinates: NAD 1983. Colorado State Plane Colorado Central (Feet).

N/A = not applicable

amsl = above mean sea level

bgs = below ground surface

ft = feet

in= inch

TABLE 2A: SURFACE WATER SAMPLE FIELD PARAMETERS									
Location ID / Sample ID	Elevation ¹ (ft above mean sea level)	Sample Date	Field Parameters						Notes / Location Description
			Flowrate (ft ³ /s)	pH (unitless)	Temperature (°C)	Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	
SW-AWD	6,636.37	12/08/2021 ²	0.41	7.73	4.3	267.0	100.6	9.05	Upstream sample location. Above waste dump (AWD). Onsite.
SW-NWRP	6,626.91	12/08/2021 ²	0.60	7.57	6.1	293.7	37.0	7.54	Downstream of the North Waster Rock Pile (NWRP).
SW-A001	6,603.98	Not Sampled ³	--	--	--	--	--	--	Above former discharge point. Onsite. Directly below the west waste rock pile.
SW-BDIS	6,592.67	Not Sampled ³	--	--	--	--	--	--	Below former discharge (BDIS). Onsite. Below former concrete containment structure.
SW-PL	6,583.53	Not Sampled ³	--	--	--	--	--	--	Former parking lot (PL) location. Onsite.
SW-OS	6,562.51	Not Sampled ³	--	--	--	--	--	--	Former ore sorter (OS) location. Onsite.
SW-BOS	6,556.19	Not Sampled ³	--	--	--	--	--	--	Below former ore sorter (BOS) location. Onsite.
SW-GS	6,545.54	Not Sampled ³	--	--	--	--	--	--	Former guard shack (GS) location. Onsite.
SW-BPL	6,522.53	Not Sampled ³	--	--	--	--	--	--	Below property line (BPL). Downstream sample location, just below entrance gate. Offsite.
SW-FBRG	6,489.65	Not Sampled ³	--	--	--	--	--	--	First bridge (FBRG) after leaving site. Offsite.
SW-ARH	6,364.04	10/21/2021	0.077	8.03	5.9	522.0	14.7	8.24	Above red hill (ARH). Near the large red boulders in the creek bed. Offsite.
SW-LLHG	6,158.46	Not Sampled ³	--	--	--	--	--	--	Long lake head gate (LLHG). Just above head gate. Offsite.
SW-WEIR	6,069.11	Not Sampled ³	--	--	--	--	--	--	Weir structure before Ralston Reservoir Offsite.

Citation:

¹ Locations surveyed by Lambert Land Consulting on 7/23/2020.

Notes:

² Access was prohibited by reclamation activities during the first sampling attempt in October.

³ Location was dry.

µS/cm = microSiemens per centimeter

°C = degrees Celsius

ft³/s= cubic feet per second

kg / day = kilogram per day

mg/L = milligrams per liter

mV =millivolts

ORP = Oxidization Reduction Potential

TABLE 2B: SUMMARY OF SURFACE WATER ANALYTICAL DATA

Parameter	Units	Surface Water Quality Standards Segment 17b, Ralston Creek (CDPHE 2021) ¹		Sample Location		
				SW-ARH	SW-AWD	SW-NWRP
		Acute	Chronic	10/21/2021	12/08/2021	12/08/2021
Physical Properties						
TDS - Total Dissolved Solids	mg/L	-	-	496	238	276
TSS - Total Suspended Solids	mg/L	-	-	<5	<5	<5
Major Ions						
Alkalinity as CaCO ₃	mg/L	-	-	205	65.7	70.3
Bicarbonate as CaCO ₃	mg/L	-	-	190	65.7	70.3
Calcium - Dissolved	mg/L	-	-	49.8	42.7	43.9
Carbonate as CaCO ₃	mg/L	-	-	15 B	<2	<2
Chloride	mg/L	-	250	24.6	71.6	72.1
Fluoride	mg/L	-	-	0.53 B	0.21 B	0.23 B
Hydroxide as CaCO ₃	mg/L	-	-	<2	<2	<2
Magnesium - Dissolved	mg/L	-	-	16.4	11.4	12.4
Potassium - Dissolved	mg/L	-	-	3.53	1.62	1.86
Sodium - Dissolved	mg/L	-	-	99.5	20.8	20.0
Sulfate	mg/L	-	250	177	28.8	32.2
Nutrients						
Cyanide - Weak Acid Dissociable	mg/L	0.005	-	<0.003	<0.003	<0.003
Nitrate+Nitrite as N	mg/L	NO ₃ =10	NO ₂ =0.05	<0.02	0.039 B	<0.02
Phosphate - Total	mg/L	-	-	0.0434 B	<0.03	<0.03
Phosphorus - Total	mg/L	-	0.11	0.014 B	<0.01	<0.01
Metals – Dissolved						
Aluminum	mg/L	-	-	<0.05	<0.05	<0.05
Antimony	mg/L	-	-	<0.0004	<0.0004	<0.0004
Arsenic	mg/L	0.34	-	0.0007 B	<0.0002	<0.0002
Boron	mg/L	-	0.75	0.12 B	<0.03	<0.03
Chromium	mg/L	-	Chromium III=0.11	<0.02	<0.02	<0.02
		Chromium IV = 0.016	Chromium IV = 0.011			
Copper	mg/L	0.0213	0.0136	<0.01	<0.01	0.021 B
Iron	mg/L	-	0.3	0.117 B	<0.06	0.235
Lead	mg/L	0.109	0.0043	<0.0001	<0.0001	<0.0001
Manganese	mg/L	3.51	1.94	0.19	<0.01	0.024 B
Mercury	mg/L	-	-	<0.0002	<0.0002	<0.0002
Molybdenum	mg/L	-	-	0.0141	0.00064	0.00139
Silver	mg/L	0.0047	0.00017	<0.0001	<0.0001	<0.0001
Thallium	mg/L	-	-	<0.0001	<0.0001	<0.0001

TABLE 2B: SUMMARY OF SURFACE WATER ANALYTICAL DATA

Parameter	Units	Surface Water Quality Standards Segment 17b, Ralston Creek (CDPHE 2021) ¹		Sample Location		
				SW-ARH	SW-AWD	SW-NWRP
		Acute	Chronic	10/21/2021	12/08/2021	12/08/2021
Uranium	mg/L	0.030	0.030	0.111	0.00355	0.0124
Zinc	mg/L	0.249	0.188	<0.02	<0.02	<0.02
Metals – Total						
Aluminum	mg/L	-	-	<0.05	<0.25	<0.1
Antimony	mg/L	-	-	<0.0004	<0.0004	<0.0004
Arsenic	mg/L	-	0.00002	0.00078 B	<0.0002	<0.0002
Boron	mg/L	-	0.75	0.135	<0.03	<0.06
Chromium	mg/L	Chromium III = 0.005	-	<0.02	<0.1	<0.04
		Chromium IV = 0.016	Chromium IV = 0.011			
Copper	mg/L	0.0213	0.0136	<0.01	<0.05	<0.02
Iron	mg/L	-	1	0.422	<0.3	0.387
Lead	mg/L	0.05	-	<0.0001	<0.0001	<0.0001
Manganese	mg/L	0.05	-	0.209	<0.05	0.025 B
Mercury	mg/L	3.513	1.941	<0.0002	<0.0002	<0.0002
Molybdenum	mg/L	-	0.15	0.0132	0.0048 B	0.00123
Silver	mg/L	0.0047	0.00017	<0.0001	<0.0001	<0.0001
Thallium	mg/L	-	-	<0.0001	<0.0001	<0.0001
Uranium	mg/L	0.030	0.030	0.109	0.00364	0.0131
Zinc	mg/L	0.249	0.188	<0.01	<0.1	<0.04
Radionuclides						
Gross Alpha	pCi/L	-	-	68	2.5	9.2
Gross Beta	pCi/L	-	-	39	6.4	5.8
Radium 226 - Dissolved	pCi/L	-	-	0.93	0.15	0.22
Radium 226 - Total	pCi/L	-	-	0.87	0.11	0.24
Radium 228 - Total	pCi/L	-	-	0.44	0.98	0.67
Radium 226 + Radium 228 - Total	pCi/L	-	-	0.87	0	0.24

Notes:

¹ Acute and chronic standards for cadmium, chromium III, copper, lead, manganese, nickel, silver, uranium and zinc are calculated using an average hardness value of 163 mg/L as CaCO₃.

Bold and grey-shaded analytical results are detected above the criteria.

B = Estimated concentration

NO₃= Nitrate

NO₂= Nitrite

CaCO₃= Calcium Carbonate

mg/L= milligrams per Liter

pCi/L= picocuries per Liter

Chromium III = Trivalent Chromium

Chromium IV = Tetravalent Chromium

Source:

CDPHE. 2021. Regulation No. 38 Stream Classification and Water Quality Standards, Clear Creek Basin, Segment 17b. Mainstem of Ralston Creek Including all Tributaries and Wetlands from the Source to the Inlet of Arvada Reservoir. December.

TABLE 3A: GROUNDWATER SAMPLE FIELD PARAMETERS								
Location ID / Sample ID ²	Sample Date	Field Parameters						Notes / Location Description
		Static Depth to Water (ft btoc)	pH (unitless)	Temperature (°C)	Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	
MW-00	12/8/2021	7.18	7.17	8.7	308.0	134.7	3.80	Alluvial well. Above waste dumps, upstream of site.
MW-0	12/8/2021	14.06	6.90	11.7	650	149.6	2.66	Alluvial well. Toe of south waste rock pile.
MW-6	Not Sampled ¹	--	--	--	--	--	--	Alluvial well. Near former Sump #2.
MW-7	Not Sampled ¹	--	--	--	--	--	--	Alluvial well. Near Sump #1. This sample was a grab sample was taken 24 hours after the first attempt to sample during which the well ran dry while purging.
MW-12	Not Sampled ¹	--	--	--	--	--	--	Below Sump #1. Alluvial well.
MW-13	10/13/2021	440.43	6.99	9.1	323.1	-5.7	0.47	Nitrogen purge. Replaced MW-10. Previous Sample ID = L1. Background well.
MW-14	10/13/2021	98.02	7.08	8.9	174.3	-154.2	0.06	Nitrogen purge. Replaced MW-11. Previous Sample ID = L2. Background well.
MW-15	10/12/2021	422.8	7.72	11.1	830	-286.2	0.36	Nitrogen purge. Previous Sample ID = L3. Bedrock well.
MW-16	--sss	--	--	--	--	--	--	Previous Sample ID = L4. Bedrock well. No sample required.
MW-17	Not Sampled ¹	--	--	--	--	--	--	Nitrogen purge. Previous Sample ID = L5.
MW-18	Not Sampled ¹	--	--	--	--	--	--	Previous Sample ID = L6. Bedrock well, installation targeted Illinois fault zone in alluvial valley.
MW-19	10/21/2021	19.14	6.94	12.1	716	124.8	3.6	Toe of south waste rock pile. Previous Sample ID = L7.
MW-20	Not Sampled ¹	--	--	--	--	--	--	Usually dry. Top of south waste rock pile.
Raw Feed	10/19/2021	--	7.30	16.6	2826	-80.6	5.59	Sample collected from spigot inside water treatment plant. This is the water treatment plant intake from the mine pool. Previous Sample ID = Mine Refill.
Sumps	Not Sampled ¹	--	--	--	--	--	--	Sample collected from sump water from Sump #1 (Master Sump).

Notes:

¹ Well was dry or water present in well was insufficient volume to collect sample.

²MW-1, MW-2, MW-3A, and MW-8 were removed in 2019; MW-4 and MW-5 were removed in 2008. MW-8 was replaced with MW-12. MW-10 and MW-11 were fouled (bentonite in screened interval) and replaced with MW-13 and MW-14.

µS/cm = microSemiens per centimeter

°C = degrees Celsius

ft btoc = feet below top of casing

ID = Identifier

mg/L = milligrams per liter

mV =millivolts

MW = Monitoring Well

ORP = Oxidization Reduction Potential

TABLE 3B: SUMMARY OF GROUND WATER ANALYTICAL DATA

Parameter	Units	Domestic Water Supply - Drinking Water Standards (CDPHE 2021)	Sample Location						
			MW-00	MW-0	MW-13	MW-14	MW-15	MW-19	Raw Feed
			12/08/2021	12/08/2021	10/13/2021	10/13/2021	10/12/2021	10/21/2021	10/19/2021
Physical Properties									
TDS - Total Dissolved Solids	mg/L	-	236	590	268	178	712	620	2790
TSS - Total Suspended Solids	mg/L	-	<5	<5	<5	<5	<5	<5	20
Major Ions									
Alkalinity as CaCO ₃	mg/L	-	84.1	160	155	108	247	191	693
Bicarbonate as CaCO ₃	mg/L	-	84.1	160	155	108	228	191	693
Calcium - Dissolved	mg/L	-	46.6	111	47.3	22.5	22.4	79	282
Carbonate as CaCO ₃	mg/L	-	<2	<2	<2	<2	18.1 B	<2	<2
Chloride	mg/L	250	64.1	27.2	4.75	2.93	19.5	9.77	45.4
Fluoride	mg/L	4	0.19 B	0.18 B	0.57	0.34 B	1.97	0.37	1.37
Hydroxide as CaCO ₃	mg/L	-	<2	<2	<2	<2	<2	<2	<2
Magnesium - Dissolved	mg/L	-	13.3	37.3	15.4	6.13	10.8	51.3	219
Potassium - Dissolved	mg/L	-	2.03	4.36	5.66	3.93	7.77	4.45	25.5
Sodium - Dissolved	mg/L	-	18.5	22.9	20.9	21.2	199	40.9	252
Sulfate	mg/L	250	27.9	246	66.2	36.8	274	298	1400
Nutrients									
Cyanide - Weak Acid Dissociable	mg/L	0.2	<0.003	<0.003	0.004 B	<0.003	<0.003	<0.003	<0.003
Nitrate+Nitrite as N	mg/L	10	<0.02	2	0.023 B	0.029 B	0.127	1.8	0.228
Phosphate - Total	mg/L	-	0.0899 B	<0.03	<0.03	0.0403 B	<0.03	<0.03	4.46
Phosphorus - Total	mg/L	-	0.029 B	<0.01	<0.01	0.013 B	<0.01	<0.01	1.44
Metals – Dissolved									
Aluminum	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
Antimony	mg/L	0.006	<0.0004	<0.0004	<0.0004	0.00098 B	<0.0004	0.00044 B	<0.0008
Arsenic	mg/L	0.01	<0.0002	<0.0002	<0.0002	0.00032 B	0.00473	<0.0002	0.0135
Boron	mg/L	0.75	<0.03	<0.03	<0.03	<0.03	0.212	0.053 B	0.236
Chromium	mg/L	0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
Copper	mg/L	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Iron	mg/L	0.3	<0.06	<0.06	<0.06	0.247	0.104 B	<0.06	4.24
Lead	mg/L	0.1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02
Manganese	mg/L	0.05	<0.01	<0.01	0.54	0.182	0.02 B	<0.01	0.711
Mercury	mg/L	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	mg/L	0.21	0.00045 B	0.015	0.0931	0.00352	0.0161	0.0318	0.929
Silver	mg/L	0.05	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
Thallium	mg/L	0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
Uranium	mg/L	0.03	0.00288	0.649	0.0253	0.00207	0.0313	1.17	13.9

TABLE 3B: SUMMARY OF GROUND WATER ANALYTICAL DATA

Parameter	Units	Domestic Water Supply - Drinking Water Standards (CDPHE 2021)	Sample Location						
			MW-00	MW-0	MW-13	MW-14	MW-15	MW-19	Raw Feed
			12/08/2021	12/08/2021	10/13/2021	10/13/2021	10/12/2021	10/21/2021	10/19/2021
Zinc	mg/L	5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
Metals - Total									
Aluminum	mg/L	5	0.071 B	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
Antimony	mg/L	0.006	<0.0004	<0.0004	<0.0004	0.00149 B	<0.0004	<0.0004	<0.0008
Arsenic	mg/L	0.01	<0.0002	<0.0002	<0.0002	0.0004 B	0.00497	<0.0002	0.0146
Boron	mg/L	0.75	<0.03	<0.03	<0.03	<0.03	0.214	0.076 B	0.285
Chromium	mg/L	0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
Copper	mg/L	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Iron	mg/L	0.3	0.115 B	<0.06	<0.06	0.422	0.122 B	<0.06	7.68
Lead	mg/L	0.05	0.0001 B	<0.0001	<0.0001	0.00012 B	<0.0001	<0.0001	<0.0002
Manganese	mg/L	0.05	<0.01	<0.01	0.553	0.204	0.021 B	<0.01	0.738
Mercury	mg/L	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum	mg/L	0.21	0.00046 B	0.014	0.0926	0.00345	0.0157	0.031	0.83
Silver	mg/L	0.05	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
Thallium	mg/L	0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
Uranium	mg/L	0.03	0.00241	0.647	0.0252	0.00202	0.0313	1.13	14.6
Zinc	mg/L	5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
Radionuclides									
Gross Alpha	pCi/L	15	5.5	230	28	3.1	230	740	19000
Gross Beta	pCi/L	-	12	110	19	9.4	82	350	6700
Radium 226 - Dissolved	pCi/L	-	0.15	0.11	0.54	0.12	52	0.43	28
Radium 226 - Total	pCi/L	-	0.37	0.13	0.29	0.16	33	0.69	93
Radium 228 - Total	pCi/L	-	0.15	0.82	3.7	2.6	3	0.52	0.1
Radium 226 + Radium 228 - Total	pCi/L	5	0	0	3.7	2.6	36	0	93

Notes:

Bold and grey shaded analytical results are detected above the criteria.

B = Estimated concentration

CaCO₃= Calcium Carbonate

mg/L= milligrams per Liter

pCi/L= picocuries per Liter

Chromium III = Trivalent Chromium

Chromium IV = Tetravalent Chromium

NO₂= Nitrite

NO₃= Nitrate

N/A= Standard not Defined

Source:

CDPHE. 2021. Regulation No. 41 – The Basic Standards for Ground Water (5 CCR 1002-41). Water Quality Control Commission. December.

TABLE 4: DAILY AVERAGE MINE POOL ELEVATIONS		
Date	Distance Below Steve Level (feet)	Elevation of Water Level (feet above mean sea level)
10/1/2021	>354.4	<6,247.31
10/2/2021	>354.4	<6,247.31
10/3/2021	>354.4	<6,247.31
10/4/2021	>354.4	<6,247.31
10/5/2021	>354.4	<6,247.31
10/6/2021	353.50	6,248.21
10/7/2021	352.66	6,249.05
10/8/2021	352.26	6,249.45
10/9/2021	351.59	6,250.12
10/10/2021	350.95	6,250.76
10/11/2021	350.55	6,251.16
10/12/2021	350.05	6,251.66
10/13/2021	349.07	6,252.64
10/14/2021	348.31	6,253.40
10/15/2021	346.99	6,254.72
10/16/2021	346.09	6,255.62
10/17/2021	345.25	6,256.46
10/18/2021	344.28	6,257.43
10/19/2021	342.94	6,258.77
10/20/2021	341.81	6,259.90
10/21/2021	340.90	6,260.81
10/22/2021	340.13	6,261.58
10/23/2021	339.22	6,262.49
10/24/2021	337.82	6,263.89
10/25/2021	336.78	6,264.93
10/26/2021	335.48	6,266.23
10/27/2021	334.23	6,267.48
10/28/2021	332.79	6,268.92
10/29/2021	332.19	6,269.52
10/30/2021	331.42	6,270.29
10/31/2021	330.38	6,271.33
11/1/2021	329.00	6,272.71
11/2/2021	328.24	6,273.47
11/3/2021	327.00	6,274.71
11/4/2021	325.96	6,275.75
11/5/2021	324.79	6,276.92
11/6/2021	323.79	6,277.92
11/7/2021	322.51	6,279.20
11/8/2021	321.40	6,280.31
11/9/2021	320.70	6,281.01

TABLE 4: DAILY AVERAGE MINE POOL ELEVATIONS

Date	Distance Below Steve Level (feet)	Elevation of Water Level (feet above mean sea level)
11/10/2021	319.36	6,282.35
11/11/2021	318.36	6,283.35
11/12/2021	317.18	6,284.53
11/13/2021	315.91	6,285.80
11/14/2021	315.00	6,286.71
11/15/2021	313.90	6,287.81
11/16/2021	312.99	6,288.72
11/17/2021	311.86	6,289.85
11/18/2021	310.98	6,290.73
11/19/2021	309.81	6,291.90
11/20/2021	308.71	6,293.00
11/21/2021	307.77	6,293.94
11/22/2021	306.93	6,294.78
11/23/2021	305.96	6,295.75
11/24/2021	304.45	6,297.26
11/25/2021	303.52	6,298.19
11/26/2021	302.84	6,298.87
11/27/2021	301.47	6,300.24
11/28/2021	300.47	6,301.24
11/29/2021	299.56	6,302.15
11/30/2021	298.85	6,302.86
12/1/2021	298.02	6,303.69
12/2/2021	297.45	6,304.26
12/3/2021	296.74	6,304.97
12/4/2021	296.11	6,305.60
12/5/2021	295.14	6,306.57
12/6/2021	294.50	6,307.21
12/7/2021	293.50	6,308.21
12/8/2021	292.95	6,308.76
12/9/2021	292.49	6,309.22
12/10/2021	291.46	6,310.25
12/11/2021	290.65	6,311.06
12/12/2021	289.65	6,312.06
12/13/2021	288.97	6,312.74
12/14/2021	288.44	6,313.27
12/15/2021	287.50	6,314.21
12/16/2021	286.56	6,315.15
12/17/2021	285.63	6,316.08
12/18/2021	285.02	6,316.69
12/19/2021	284.39	6,317.32

TABLE 4: DAILY AVERAGE MINE POOL ELEVATIONS		
Date	Distance Below Steve Level (feet)	Elevation of Water Level (feet above mean sea level)
12/20/2021	283.75	6,317.96
12/21/2021	283.04	6,318.67
12/22/2021	282.54	6,319.17
12/23/2021	282.00	6,319.71
12/24/2021	281.03	6,320.68
12/25/2021	280.46	6,321.25
12/26/2021	279.73	6,321.98
12/27/2021	279.33	6,322.38
12/28/2021	278.32	6,323.39
12/29/2021	277.48	6,324.23
12/30/2021	276.70	6,325.01
12/31/2021	275.92	6,325.79

Notes:

The elevation of the Steve Adit is 6601.71 feet above mean sea level. This was surveyed by Lambert Land Consulting on 7/23/2020.

On 9/13/2021, the mine pool was dewatered below the elevation of the mine pool transducer. From 10/1/2021-10/5/2021, the transducer readings confirmed that the mine pool was below the elevation of the transducer, <6,247.31 ft amsl.

December 13, 2021

Report to:

Christie Brizinski
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

Bill to:

Pauline Wong
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

cc: Ensero/Alexco Importer, Evan Valencia

Project ID: 3100-PO205

ACZ Project ID: L69240

Christie Brizinski:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 14, 2021. This project has been assigned to ACZ's project number, L69240. Please reference this number in all future inquiries.

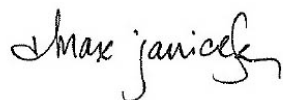
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L69240. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 12, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Ensero Solutions

December 13, 2021

Project ID: 3100-PO205

ACZ Project ID: L69240

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 miscellaneous samples from Ensero Solutions on October 14, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L69240. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG530124

Qualifier: N1

Applies to:

L69240-01/RADIUM 228

L69240-02/RADIUM 228

L69240-03/RADIUM 228

LCS exceeded limits of recovery. MS within limits and used as a positive control for batch.

Ensero Solutions

Project ID: 3100-PO205
 Sample ID: MW-15

ACZ Sample ID: **L69240-01**
 Date Sampled: 10/12/21 12:03
 Date Received: 10/14/21
 Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								10/25/21 16:02	bls/mjj
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								10/26/21 14:05	bls
Total Hot Plate Digestion	M200.2 ICP-MS								10/27/21 8:20	mfm
Total Hot Plate Digestion	M200.2 ICP								10/28/21 11:58	jlw

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-15

ACZ Sample ID: **L69240-01**

Date Sampled: 10/12/21 12:03

Date Received: 10/14/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/27/21 16:52	kja
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/31/21 23:30	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/03/21 13:42	mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/28/21 17:41	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00473			mg/L	0.0002	0.001	11/03/21 13:42	mfm
Arsenic, total	M200.8 ICP-MS	1	0.00497			mg/L	0.0002	0.001	10/28/21 17:41	bsu
Boron, dissolved	M200.7 ICP	1	0.212			mg/L	0.03	0.1	10/27/21 16:52	kja
Boron, total	M200.7 ICP	1	0.214			mg/L	0.03	0.1	10/31/21 23:30	kja
Calcium, dissolved	M200.7 ICP	1	22.4			mg/L	0.1	0.5	10/27/21 16:52	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:52	kja
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:30	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/21 16:52	kja
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/31/21 23:30	kja
Iron, dissolved	M200.7 ICP	1	0.104	B		mg/L	0.06	0.15	10/27/21 16:52	kja
Iron, total	M200.7 ICP	1	0.122	B		mg/L	0.06	0.15	10/31/21 23:30	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:42	mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:41	bsu
Magnesium, dissolved	M200.7 ICP	1	10.8			mg/L	0.2	1	10/28/21 15:49	kja
Manganese, dissolved	M200.7 ICP	1	0.020	B		mg/L	0.01	0.05	10/27/21 16:52	kja
Manganese, total	M200.7 ICP	1	0.021	B		mg/L	0.01	0.05	10/31/21 23:30	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/27/21 10:59	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/26/21 14:40	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0161			mg/L	0.0002	0.0005	11/03/21 13:42	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0157			mg/L	0.0002	0.0005	10/28/21 17:41	bsu
Potassium, dissolved	M200.7 ICP	1	7.77			mg/L	0.2	1	10/27/21 16:52	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.00025	11/03/21 13:42	mfm
Selenium, total	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.00025	10/28/21 17:41	bsu
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:42	mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:41	bsu
Sodium, dissolved	M200.7 ICP	1	199			mg/L	0.2	1	10/27/21 16:52	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:42	mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:41	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0313			mg/L	0.0001	0.0005	11/03/21 13:42	mfm
Uranium, total	M200.8 ICP-MS	1	0.0313			mg/L	0.0001	0.0005	10/28/21 17:41	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:52	kja
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:30	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-15

ACZ Sample ID: **L69240-01**

Date Sampled: 10/12/21 12:03

Date Received: 10/14/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	228			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	18.1	B		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	247			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			12/13/21 0:00	calc
Sum of Anions			11			meq/L			12/13/21 0:00	calc
Sum of Cations			11.0			meq/L			12/13/21 0:00	calc
Chloride	SM4500Cl-E	1	19.5		*	mg/L	0.5	2	11/09/21 13:12	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/26/21 17:08	wtc
Fluoride	SM4500F-C	1	1.97			mg/L	0.15	0.35	11/01/21 16:22	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.127		*	mg/L	0.02	0.1	11/05/21 1:20	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	12/13/21 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	11/06/21 1:04	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	712			mg/L	20	40	10/19/21 13:02	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/19/21 17:34	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	10	274			mg/L	10	50	11/02/21 13:38	wtc
TDS (calculated)	Calculation		686			mg/L			12/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						12/13/21 0:00	calc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-13

ACZ Sample ID: **L69240-02**

Date Sampled: 10/13/21 11:04

Date Received: 10/14/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								10/25/21 16:14	bls/mjj
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								10/26/21 14:19	bls
Total Hot Plate Digestion	M200.2 ICP								10/28/21 12:12	jlw
Total Hot Plate Digestion	M200.2 ICP-MS								10/27/21 8:20	mfm

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-13

ACZ Sample ID: **L69240-02**

Date Sampled: 10/13/21 11:04

Date Received: 10/14/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/27/21 16:56	kja
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/31/21 23:33	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/03/21 13:44	mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/28/21 17:43	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	11/03/21 13:44	mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	10/28/21 17:43	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/27/21 16:56	kja
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/31/21 23:33	kja
Calcium, dissolved	M200.7 ICP	1	47.3			mg/L	0.1	0.5	10/27/21 16:56	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:56	kja
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:33	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/21 16:56	kja
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/31/21 23:33	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/27/21 16:56	kja
Iron, total	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/31/21 23:33	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:44	mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:43	bsu
Magnesium, dissolved	M200.7 ICP	1	15.4			mg/L	0.2	1	10/28/21 15:52	kja
Manganese, dissolved	M200.7 ICP	1	0.540			mg/L	0.01	0.05	10/27/21 16:56	kja
Manganese, total	M200.7 ICP	1	0.553			mg/L	0.01	0.05	10/31/21 23:33	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/27/21 11:02	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/26/21 14:41	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0931			mg/L	0.0002	0.0005	11/03/21 13:44	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0926			mg/L	0.0002	0.0005	10/28/21 17:43	bsu
Potassium, dissolved	M200.7 ICP	1	5.66			mg/L	0.2	1	10/27/21 16:56	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	11/03/21 13:44	mfm
Selenium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	10/28/21 17:43	bsu
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:44	mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:43	bsu
Sodium, dissolved	M200.7 ICP	1	20.9			mg/L	0.2	1	10/27/21 16:56	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:44	mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:43	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0253			mg/L	0.0001	0.0005	11/03/21 13:44	mfm
Uranium, total	M200.8 ICP-MS	1	0.0252			mg/L	0.0001	0.0005	10/28/21 17:43	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:56	kja
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:33	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-13

ACZ Sample ID: **L69240-02**

Date Sampled: 10/13/21 11:04

Date Received: 10/14/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	155			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	155			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			12/13/21 0:00	calc
Sum of Anions			4.7			meq/L			12/13/21 0:00	calc
Sum of Cations			4.7			meq/L			12/13/21 0:00	calc
Chloride	SM4500Cl-E	1	4.75		*	mg/L	0.5	2	11/09/21 13:13	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	0.0040	B	*	mg/L	0.003	0.01	10/26/21 17:09	wtc
Fluoride	SM4500F-C	1	0.57			mg/L	0.15	0.35	11/01/21 16:30	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.023	B	*	mg/L	0.02	0.1	11/05/21 1:22	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	12/13/21 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	11/06/21 1:06	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	268			mg/L	40	80	10/19/21 13:07	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/19/21 17:37	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	66.2			mg/L	5	25	11/02/21 13:15	wtc
TDS (calculated)	Calculation		256			mg/L			12/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						12/13/21 0:00	calc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-14

ACZ Sample ID: **L69240-03**

Date Sampled: 10/13/21 12:34

Date Received: 10/14/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								10/25/21 16:26	bls/mjj
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								10/26/21 14:33	bls
Total Hot Plate Digestion	M200.2 ICP-MS								10/27/21 8:20	mfm
Total Hot Plate Digestion	M200.2 ICP								10/28/21 12:27	jlw

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-14

ACZ Sample ID: **L69240-03**

Date Sampled: 10/13/21 12:34

Date Received: 10/14/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/27/21 16:59	kja
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	10/31/21 23:42	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00098	B		mg/L	0.0004	0.002	11/03/21 13:46	mfm
Antimony, total	M200.8 ICP-MS	1	0.00149	B		mg/L	0.0004	0.002	10/28/21 17:44	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0002	0.001	11/03/21 13:46	mfm
Arsenic, total	M200.8 ICP-MS	1	0.00040	B		mg/L	0.0002	0.001	10/28/21 17:44	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/27/21 16:59	kja
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/31/21 23:42	kja
Calcium, dissolved	M200.7 ICP	1	22.5			mg/L	0.1	0.5	10/27/21 16:59	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:59	kja
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:42	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/27/21 16:59	kja
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/31/21 23:42	kja
Iron, dissolved	M200.7 ICP	1	0.247			mg/L	0.06	0.15	10/27/21 16:59	kja
Iron, total	M200.7 ICP	1	0.422			mg/L	0.06	0.15	10/31/21 23:42	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:46	mfm
Lead, total	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	10/28/21 17:44	bsu
Magnesium, dissolved	M200.7 ICP	1	6.13			mg/L	0.2	1	10/28/21 15:55	kja
Manganese, dissolved	M200.7 ICP	1	0.182			mg/L	0.01	0.05	10/27/21 16:59	kja
Manganese, total	M200.7 ICP	1	0.204			mg/L	0.01	0.05	10/31/21 23:42	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/27/21 11:03	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/26/21 14:46	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00352			mg/L	0.0002	0.0005	11/03/21 13:46	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.00345			mg/L	0.0002	0.0005	10/28/21 17:44	bsu
Potassium, dissolved	M200.7 ICP	1	3.93			mg/L	0.2	1	10/27/21 16:59	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00055			mg/L	0.0001	0.00025	11/03/21 13:46	mfm
Selenium, total	M200.8 ICP-MS	1	0.00060			mg/L	0.0001	0.00025	10/28/21 17:44	bsu
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:46	mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:44	bsu
Sodium, dissolved	M200.7 ICP	1	21.2			mg/L	0.2	1	10/27/21 16:59	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/03/21 13:46	mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/28/21 17:44	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00207			mg/L	0.0001	0.0005	11/03/21 13:46	mfm
Uranium, total	M200.8 ICP-MS	1	0.00202			mg/L	0.0001	0.0005	10/28/21 17:44	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/27/21 16:59	kja
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/31/21 23:42	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-14

ACZ Sample ID: **L69240-03**

Date Sampled: 10/13/21 12:34

Date Received: 10/14/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	108			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	108			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-5.3			%			12/13/21 0:00	calc
Sum of Anions			3.0			meq/L			12/13/21 0:00	calc
Sum of Cations			2.7			meq/L			12/13/21 0:00	calc
Chloride	SM4500Cl-E	1	2.93		*	mg/L	0.5	2	11/09/21 13:14	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/26/21 17:10	wtc
Fluoride	SM4500F-C	1	0.34	B		mg/L	0.15	0.35	11/01/21 16:38	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.029	B	*	mg/L	0.02	0.1	11/05/21 1:24	pjb
Phosphate, total	Calculation based on total Phosphorus		0.0403	B		mg/L	0.03	0.2	12/13/21 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	0.013	B	*	mg/L	0.01	0.05	11/06/21 1:08	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	178	H	*	mg/L	20	40	10/25/21 7:58	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/19/21 17:40	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	36.8			mg/L	1	5	11/02/21 13:10	wtc
TDS (calculated)	Calculation		160			mg/L			12/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						12/13/21 0:00	calc



Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO₃

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530117													
WG530117PBW1	PBW	10/22/21 22:06				5.9	mg/L		-20	20			
WG530117PBW2	PBW	10/23/21 1:10				3.2	mg/L		-20	20			
WG530117PBW3	PBW	10/23/21 3:55				5.2	mg/L		-20	20			
WG530117PBW4	PBW	10/23/21 8:02				5	mg/L		-20	20			
L69240-01DUP	DUP	10/23/21 8:21			247	248.7	mg/L				1	20	

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.993	mg/L	100	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.15	0.15			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.250325		.255	mg/L	102	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	200.410325		203.8	mg/L	102	1	200			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	1.0008		1.03	mg/L	103	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	1.0008	U	1.106	mg/L	111	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	1.0008	U	1.058	mg/L	106	85	115	4	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.988	mg/L	99	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.15	0.15			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		1.003	mg/L	100	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.15	0.15			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.996	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.15	0.15			

Aluminum, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		2.045	mg/L	102	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.15	0.15			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.250325		.253	mg/L	101	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	200.410325		212.5	mg/L	106	1	200			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.11	0.11			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	1.0008		1.049	mg/L	105	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	1.0008	.254	1.342	mg/L	109	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	1.0008	.254	1.299	mg/L	104	70	130	3	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.968	mg/L	97	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.15	0.15			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		1.003	mg/L	100	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.15	0.15			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.013	mg/L	101	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.15	0.15			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.0201		.01986	mg/L	99	90	110			
WG530929ICB	ICB	11/03/21 13:39				.00046	mg/L		-0.00088	0.00088			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.01		.00958	mg/L	96	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.01	U	.00848	mg/L	85	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.01	U	.00839	mg/L	84	70	130	1	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.0125		.01249	mg/L	100	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0012	0.0012			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.0125		.01274	mg/L	102	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0012	0.0012			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.0125		.0123	mg/L	98	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0012	0.0012			

Antimony, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.0201		.02	mg/L	100	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0012	0.0012			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00088	0.00088			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.01		.0106	mg/L	106	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.0125		.01234	mg/L	99	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0012	0.0012			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.01	U	.01062	mg/L	106	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.01	U	.01072	mg/L	107	70	130	1	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.0125		.01268	mg/L	101	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0012	0.0012			

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.05		.05023	mg/L	100	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00044	0.00044			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05005		.0509	mg/L	102	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05005	.00026	.05495	mg/L	109	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05005	.00026	.05312	mg/L	106	70	130	3	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.1001		.10163	mg/L	102	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0006	0.0006			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.1001		.09659	mg/L	96	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0006	0.0006			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.1001		.09877	mg/L	99	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0006	0.0006			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Arsenic, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.05		.04824	mg/L	96	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0006	0.0006			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00044	0.00044			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.05005		.04903	mg/L	98	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.1001		.10223	mg/L	102	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0006	0.0006			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05005	.00133	.05208	mg/L	101	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05005	.00133	.05278	mg/L	103	70	130	1	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.1001		.10675	mg/L	107	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0006	0.0006			
WG530541CCV3	CCV	10/28/21 18:13	MS211028-2	.1001		.10437	mg/L	104	90	110			
WG530541CCB3	CCB	10/28/21 18:15				U	mg/L		-0.0006	0.0006			

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.974	mg/L	99	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.09	0.09			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.1001		.108	mg/L	108	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	.1001		.1	mg/L	100	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	.5005		.515	mg/L	103	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	.5005	U	.53	mg/L	106	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	.5005	U	.538	mg/L	107	85	115	1	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.992	mg/L	99	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.09	0.09			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		1.024	mg/L	102	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.09	0.09			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		1.027	mg/L	103	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.09	0.09			

Boron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		2.029	mg/L	101	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.09	0.09			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.1001		.108	mg/L	108	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	.1001		.104	mg/L	104	80	120			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.066	0.066			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	.5005		.514	mg/L	103	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	.5005	.031	.542	mg/L	102	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	.5005	.031	.542	mg/L	102	70	130	0	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.978	mg/L	98	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.09	0.09			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		1.003	mg/L	100	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.09	0.09			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.014	mg/L	101	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.09	0.09			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	100		97.46	mg/L	97	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.3	0.3			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.50015		.59	mg/L	118	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	200.56015		195.4	mg/L	97	1	200			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	67.98972		67.97	mg/L	100	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	67.98972	5.65	76.71	mg/L	105	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	67.98972	5.65	74.3	mg/L	101	85	115	3	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	50		48.59	mg/L	97	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.3	0.3			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	50		49.65	mg/L	99	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.3	0.3			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	50		49.43	mg/L	99	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.3	0.3			

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531269													
WG531269ICV	ICV	11/09/21 13:08	WI210503-1	54.89		52.21	mg/L	95	90	110			
WG531269ICB	ICB	11/09/21 13:08				U	mg/L		-1.5	1.5			
WG531269LFB1	LFB	11/09/21 13:09	WI210908-11	29.97		29.88	mg/L	100	90	110			
L69230-01DUP	DUP	11/09/21 13:11			44.9	40.66	mg/L				10	20	
WG531269CCV1	CCV	11/09/21 13:14	WI210203-7	50.05		49.32	mg/L	99	90	110			
WG531269CCB1	CCB	11/09/21 13:15				U	mg/L		-1.5	1.5			
WG531269CCV2	CCV	11/09/21 13:20	WI210203-7	50.05		49.44	mg/L	99	90	110			
WG531269CCB2	CCB	11/09/21 13:21				U	mg/L		-1.5	1.5			
WG531269LFB2	LFB	11/09/21 13:24	WI210908-11	29.97		29.14	mg/L	97	90	110			
WG531269CCV3	CCV	11/09/21 13:26	WI210203-7	50.05		50.43	mg/L	101	90	110			
WG531269CCB3	CCB	11/09/21 13:27				U	mg/L		-1.5	1.5			
WG531269CCV4	CCV	11/09/21 13:31	WI210203-7	50.05		49.62	mg/L	99	90	110			
WG531269CCB4	CCB	11/09/21 13:31				.56	mg/L		-1.5	1.5			
WG531269CCV5	CCV	11/09/21 13:47	WI210203-7	50.05		50.69	mg/L	101	90	110			
WG531269CCB5	CCB	11/09/21 13:47				U	mg/L		-1.5	1.5			
WG531269CCV6	CCV	11/09/21 13:53	WI210203-7	50.05		49.82	mg/L	100	90	110			
WG531269CCB6	CCB	11/09/21 13:53				U	mg/L		-1.5	1.5			
WG531269CCV7	CCV	11/09/21 13:55	WI210203-7	50.05		49.62	mg/L	99	90	110			
WG531269CCB7	CCB	11/09/21 13:55				U	mg/L		-1.5	1.5			
WG531269CCV8	CCV	11/09/21 16:36	WI210203-7	50.05		50.22	mg/L	100	90	110			
WG531269CCB8	CCB	11/09/21 16:37				U	mg/L		-1.5	1.5			
L69229-01AS	AS	11/09/21 16:38	5XCL	30	105	125.38	mg/L	68	90	110			M2
WG531269CCV9	CCV	11/09/21 16:44	WI210203-7	50.05		49.9	mg/L	100	90	110			
WG531269CCB9	CCB	11/09/21 16:45				U	mg/L		-1.5	1.5			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.933	mg/L	97	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.06	0.06			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.0502		.047	mg/L	94	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	.1004		.101	mg/L	101	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	.5005		.496	mg/L	99	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	.5005	U	.502	mg/L	100	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	.5005	U	.503	mg/L	100	85	115	0	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.969	mg/L	97	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.06	0.06			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		.994	mg/L	99	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.06	0.06			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.993	mg/L	99	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.06	0.06			

Chromium, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		2.057	mg/L	103	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.06	0.06			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.0502		.057	mg/L	114	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	.1004		.104	mg/L	104	80	120			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.044	0.044			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	.5005		.517	mg/L	103	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	.5005	U	.527	mg/L	105	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	.5005	U	.516	mg/L	103	70	130	2	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.992	mg/L	99	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.06	0.06			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		1.024	mg/L	102	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.06	0.06			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.033	mg/L	103	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.955	mg/L	98	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.03	0.03			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.05		.05	mg/L	100	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	.1		.097	mg/L	97	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	.5		.506	mg/L	101	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	.5	U	.515	mg/L	103	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	.5	U	.513	mg/L	103	85	115	0	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.967	mg/L	97	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.03	0.03			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		.995	mg/L	100	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.03	0.03			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.995	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		2.016	mg/L	101	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.03	0.03			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.05		.052	mg/L	104	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	.1		.099	mg/L	99	80	120			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.022	0.022			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	.5		.513	mg/L	103	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	.5	U	.533	mg/L	107	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	.5	U	.52	mg/L	104	70	130	2	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.965	mg/L	97	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.03	0.03			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		.998	mg/L	100	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.03	0.03			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.008	mg/L	101	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.03	0.03			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530333													
WG530333ICV	ICV	10/26/21 16:45	WI211026-7	.3		.3045	mg/L	102	90	110			
WG530333ICB	ICB	10/26/21 16:45				U	mg/L		-0.003	0.003			
WG530162LRB	LRB	10/26/21 16:46				U	mg/L		-0.003	0.003			
WG530162LFB	LFB	10/26/21 16:47	WI211011-6	.2		.1994	mg/L	100	90	110			
WG530333CCV1	CCV	10/26/21 16:55	WI211026-6	.25		.2472	mg/L	99	90	110			
WG530333CCB1	CCB	10/26/21 16:56				U	mg/L		-0.003	0.003			
L69218-01DUP	DUP	10/26/21 17:01			U	U	mg/L				0	20	RA
L69234-03LFM	LFM	10/26/21 17:03	WI211011-6	.2	U	.1973	mg/L	99	90	110			
WG530333CCV2	CCV	10/26/21 17:05	WI211026-6	.25		.2468	mg/L	99	90	110			
WG530333CCB2	CCB	10/26/21 17:06				U	mg/L		-0.003	0.003			
WG530333CCV3	CCV	10/26/21 17:14	WI211026-6	.25		.2487	mg/L	99	90	110			
WG530333CCB3	CCB	10/26/21 17:15				U	mg/L		-0.003	0.003			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530718													
WG530718ICV	ICV	11/01/21 13:09	WC211030-1	2.002		2.18	mg/L	109	90	110			
WG530718ICB	ICB	11/01/21 13:34				U	mg/L		-0.3	0.3			
WG530718PQV	PQV	11/01/21 13:38	WC211011-2	.3514		.45	mg/L	128	70	130			
WG530718LFB1	LFB	11/01/21 13:43	WC210803-9	5.02		5.46	mg/L	109	90	110			
WG530718CCV2	CCV	11/01/21 15:58	WC211030-1	2.002		2.13	mg/L	106	90	110			
WG530718CCB2	CCB	11/01/21 16:06				U	mg/L		-0.3	0.3			
WG530718CCV3	CCV	11/01/21 17:06	WC211030-1	2.002		2.2	mg/L	110	90	110			
WG530718CCB3	CCB	11/01/21 17:13				U	mg/L		-0.3	0.3			
L69398-01AS	AS	11/01/21 17:29	WC210803-9	5.02	4.1	9.37	mg/L	105	90	110			
L69398-01ASD	ASD	11/01/21 17:38	WC210803-9	5.02	4.1	9.33	mg/L	104	90	110	0	20	
WG530718CCV4	CCV	11/01/21 18:35	WC211030-1	2.002		2.18	mg/L	109	90	110			
WG530718CCB4	CCB	11/01/21 18:43				U	mg/L		-0.3	0.3			
WG530718LFB3	LFB	11/01/21 20:03	WC210803-9	5.02		5.36	mg/L	107	90	110			
WG530718CCV5	CCV	11/01/21 20:23	WC211030-1	2.002		2.17	mg/L	108	90	110			
WG530718CCB5	CCB	11/01/21 20:31				U	mg/L		-0.3	0.3			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.937	mg/L	97	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.18	0.18			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.150015		.148	mg/L	99	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	200.170015		188.2	mg/L	94	1	200			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	1.0001		1.006	mg/L	101	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	1.0001	U	1.028	mg/L	103	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	1.0001	U	1.026	mg/L	103	85	115	0	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.971	mg/L	97	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.18	0.18			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		1	mg/L	100	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.18	0.18			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.998	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.18	0.18			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		2.04	mg/L	102	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.18	0.18			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.150015		.155	mg/L	103	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	200.170015		193.1	mg/L	96	1	200			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.132	0.132			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	1.0001		1.031	mg/L	103	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	1.0001	.138	1.155	mg/L	102	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	1.0001	.138	1.159	mg/L	102	70	130	0	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.976	mg/L	98	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.18	0.18			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		1.026	mg/L	103	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.18	0.18			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.016	mg/L	102	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.18	0.18			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.05		.05201	mg/L	104	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00022	0.00022			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05005		.05189	mg/L	104	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05005	.00093	.05335	mg/L	105	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05005	.00093	.05249	mg/L	103	70	130	2	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.25025		.25642	mg/L	102	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0003	0.0003			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.25025		.25174	mg/L	101	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0003	0.0003			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.25025		.25693	mg/L	103	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0003	0.0003			

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.05		.05189	mg/L	104	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0003	0.0003			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00022	0.00022			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.05005		.05194	mg/L	104	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.25025		.2581	mg/L	103	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0003	0.0003			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05005	.00079	.05137	mg/L	101	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05005	.00079	.05265	mg/L	104	70	130	2	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.25025		.2568	mg/L	103	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0003	0.0003			
WG530541CCV3	CCV	10/28/21 18:13	MS211028-2	.25025		.26367	mg/L	105	90	110			
WG530541CCB3	CCB	10/28/21 18:15				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530478													
WG530478ICV	ICV	10/28/21 15:27	II211014-1	100		96.16	mg/L	96	95	105			
WG530478ICB	ICB	10/28/21 15:33				.21	mg/L		-0.6	0.6			
WG530478PQV	PQV	10/28/21 15:36	II211003-2	1.0001		1.17	mg/L	117	70	130			
WG530478SIC	SIC	10/28/21 15:39	II211004-1	201.0201		203.7	mg/L	101	1	200			
WG530478LFB	LFB	10/28/21 15:46	II211024-2	49.99828		47.32	mg/L	95	85	115			
L69340-02AS	AS	10/28/21 16:04	II211024-2	49.99828	1.1	51.31	mg/L	100	85	115			
L69340-02ASD	ASD	10/28/21 16:07	II211024-2	49.99828	1.1	50.59	mg/L	99	85	115	1	20	
WG530478CCV1	CCV	10/28/21 16:16	II211014-2	50		46.52	mg/L	93	90	110			
WG530478CCB1	CCB	10/28/21 16:19				U	mg/L		-0.6	0.6			
WG530478CCV2	CCV	10/28/21 16:53	II211014-2	50		46.65	mg/L	93	90	110			
WG530478CCB2	CCB	10/28/21 16:56				.21	mg/L		-0.6	0.6			
WG530478CCV3	CCV	10/28/21 17:11	II211014-2	50		47.66	mg/L	95	90	110			
WG530478CCB3	CCB	10/28/21 17:14				.21	mg/L		-0.6	0.6			

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.944	mg/L	97	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.03	0.03			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.05005		.05	mg/L	100	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	50.10005		47.05	mg/L	94	1	200			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	.5005		.506	mg/L	101	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	.5005	U	.518	mg/L	103	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	.5005	U	.513	mg/L	102	85	115	1	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.972	mg/L	97	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.03	0.03			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		.992	mg/L	99	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.03	0.03			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.985	mg/L	99	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.03	0.03			

Manganese, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		1.995	mg/L	100	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.03	0.03			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.05005		.052	mg/L	104	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	50.10005		47.55	mg/L	95	1	200			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.022	0.022			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	.5005		.509	mg/L	102	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	.5005	.013	.526	mg/L	102	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	.5005	.013	.519	mg/L	101	70	130	1	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.96	mg/L	96	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.03	0.03			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		.995	mg/L	100	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.03	0.03			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		1.003	mg/L	100	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530283													
WG530283ICV	ICV	10/27/21 9:47	HG211004-3	.00501		.00499	mg/L	100	95	105			
WG530283ICB	ICB	10/27/21 9:48				U	mg/L		-0.0002	0.0002			
WG530284													
WG530284CCV1	CCV	10/27/21 10:49	HG211004-3	.00501		.00499	mg/L	100	90	110			
WG530284CCB1	CCB	10/27/21 10:50				U	mg/L		-0.0002	0.0002			
WG530284PQV	PQV	10/27/21 10:51	HG211015-2	.001001		.00087	mg/L	87	70	130			
WG530284LRB	LRB	10/27/21 10:52				U	mg/L		-0.00044	0.00044			
WG530284LFB	LFB	10/27/21 10:53	HG211015-3	.002002		.0019	mg/L	95	85	115			
L69220-03LFM	LFM	10/27/21 10:55	HG211015-3	.002002	U	.00186	mg/L	93	85	115			
L69220-03LFMD	LFMD	10/27/21 10:56	HG211015-3	.002002	U	.00185	mg/L	92	85	115	1	20	
WG530284CCV2	CCV	10/27/21 11:00	HG211004-3	.00501		.00491	mg/L	98	90	110			
WG530284CCB2	CCB	10/27/21 11:01				U	mg/L		-0.0002	0.0002			
WG530284CCV3	CCV	10/27/21 11:12	HG211004-3	.00501		.00493	mg/L	98	90	110			
WG530284CCB3	CCB	10/27/21 11:13				U	mg/L		-0.0002	0.0002			
WG530284CCV4	CCV	10/27/21 11:20	HG211004-3	.00501		.00495	mg/L	99	90	110			
WG530284CCB4	CCB	10/27/21 11:21				U	mg/L		-0.0002	0.0002			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530259													
WG530259ICV	ICV	10/26/21 14:33	HG211004-3	.00501		.00501	mg/L	100	95	105			
WG530259ICB	ICB	10/26/21 14:34				U	mg/L		-0.0002	0.0002			
WG530259PQV	PQV	10/26/21 14:35	HG211015-2	.001001		.00098	mg/L	98	70	130			
WG530259LRB	LRB	10/26/21 14:36				U	mg/L		-0.00044	0.00044			
WG530259LFB	LFB	10/26/21 14:37	HG211015-3	.002002		.00189	mg/L	94	85	115			
L69240-02LFM	LFM	10/26/21 14:42	HG211015-3	.002002	U	.00186	mg/L	93	85	115			
L69240-02LFMD	LFMD	10/26/21 14:43	HG211015-3	.002002	U	.00195	mg/L	97	85	115	5	20	
WG530259CCV1	CCV	10/26/21 14:44	HG211004-3	.00501		.00484	mg/L	97	90	110			
WG530259CCB1	CCB	10/26/21 14:45				U	mg/L		-0.0002	0.0002			
WG530259CCV2	CCV	10/26/21 14:55	HG211004-3	.00501		.00498	mg/L	99	90	110			
WG530259CCB2	CCB	10/26/21 14:56				U	mg/L		-0.0002	0.0002			
WG530259CCV3	CCV	10/26/21 15:04	HG211004-3	.00501		.00492	mg/L	98	90	110			
WG530259CCB3	CCB	10/26/21 15:05				U	mg/L		-0.0002	0.0002			

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.01992		.0209	mg/L	105	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00044	0.00044			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05005		.05121	mg/L	102	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05005	.00116	.05299	mg/L	104	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05005	.00116	.0519	mg/L	101	70	130	2	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.1001		.10036	mg/L	100	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0006	0.0006			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.1001		.10216	mg/L	102	90	110			
WG530929CCB2	CCB	11/03/21 14:22				.00061	mg/L		-0.0006	0.0006			BB
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.1001		.10105	mg/L	101	90	110			
WG530929CCB3	CCB	11/03/21 14:35				.00023	mg/L		-0.0006	0.0006			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Molybdenum, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.01992		.01999	mg/L	100	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0006	0.0006			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00044	0.00044			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.05005		.04977	mg/L	99	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.1001		.09863	mg/L	99	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0006	0.0006			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05005	.00091	.05214	mg/L	102	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05005	.00091	.0524	mg/L	103	70	130	0	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.1001		.10228	mg/L	102	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0006	0.0006			
WG530541CCV3	CCV	10/28/21 18:13	MS211028-2	.1001		.10004	mg/L	100	90	110			
WG530541CCB3	CCB	10/28/21 18:15				U	mg/L		-0.0006	0.0006			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531072													
WG531072ICV	ICV	11/04/21 21:18	WI210904-1	2.4161		2.351	mg/L	97	90	110			
WG531072ICB	ICB	11/04/21 21:20				U	mg/L		-0.02	0.02			
WG531079													
WG531079CCV1	CCV	11/05/21 1:12	WI211105-1	2		2.048	mg/L	102	90	110			
WG531079CCB1	CCB	11/05/21 1:15				U	mg/L		-0.02	0.02			
WG531079LFB	LFB	11/05/21 1:16	WI211001-5	2		2.027	mg/L	101	90	110			
L69240-01DUP	DUP	11/05/21 1:21			.127	.126	mg/L				1	20	RA
WG531079CCV2	CCV	11/05/21 1:29	WI211105-1	2		2.03	mg/L	102	90	110			
WG531079CCB2	CCB	11/05/21 1:32				U	mg/L		-0.02	0.02			
L69231-01AS	AS	11/05/21 1:40	WI211001-5	6	2.5	8.85	mg/L	106	90	110			
WG531079CCV3	CCV	11/05/21 1:45	WI211105-1	2		2.03	mg/L	102	90	110			
WG531079CCB3	CCB	11/05/21 1:49				U	mg/L		-0.02	0.02			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531151													
WG531151ICV	ICV	11/06/21 0:21	WI211015-6	.65228		.691	mg/L	106	90	110			
WG531151ICB	ICB	11/06/21 0:23				U	mg/L		-0.01	0.01			
WG531153													
WG531153CCV1	CCV	11/06/21 0:59	WI211015-5	.5		.502	mg/L	100	90	110			
WG531153CCB1	CCB	11/06/21 1:00				U	mg/L		-0.01	0.01			
WG530314LRB	LRB	11/06/21 1:01				U	mg/L		-0.01	0.01			
WG530314LFB	LFB	11/06/21 1:02	WI211015-3	.5		.474	mg/L	95	90	110			
L69240-01LFM	LFM	11/06/21 1:05	WI211015-3	.5	U	.474	mg/L	95	90	110			
L69240-02DUP	DUP	11/06/21 1:07			U	U	mg/L				0	20	RA
WG531153CCV2	CCV	11/06/21 1:13	WI211015-5	.5		.502	mg/L	100	90	110			
WG531153CCB2	CCB	11/06/21 1:14				U	mg/L		-0.01	0.01			
WG531153CCV3	CCV	11/06/21 1:27	WI211015-5	.5		.511	mg/L	102	90	110			
WG531153CCB3	CCB	11/06/21 1:28				U	mg/L		-0.01	0.01			
WG531153CCV4	CCV	11/06/21 1:40	WI211015-5	.5		.508	mg/L	102	90	110			
WG531153CCB4	CCB	11/06/21 1:42				U	mg/L		-0.01	0.01			
WG531153CCV5	CCV	11/06/21 1:48	WI211015-5	.5		.511	mg/L	102	90	110			
WG531153CCB5	CCB	11/06/21 1:49				U	mg/L		-0.01	0.01			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	20		19.57	mg/L	98	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.6	0.6			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.9958		1.14	mg/L	114	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	.9958		1.13	mg/L	113	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	99.96008		98.77	mg/L	99	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	99.96008	1.62	104.9	mg/L	103	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	99.96008	1.62	101.5	mg/L	100	85	115	3	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	10		9.75	mg/L	98	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.6	0.6			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	10		9.99	mg/L	100	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.6	0.6			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	10		9.99	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.6	0.6			

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529809													
WG529809PBW	PBW	10/19/21 12:47				U	mg/L		-20	20			
WG529809LCSW	LCSW	10/19/21 12:49	PCN64122	1000		982	mg/L	98	80	120			
L69240-01DUP	DUP	10/19/21 13:05			712	700	mg/L				2	10	
WG530165													
WG530165PBW	PBW	10/25/21 7:51				U	mg/L		-20	20			
WG530165LCSW	LCSW	10/25/21 7:53	PCN64127	1000		1000	mg/L	100	80	120			
L69258-01DUP	DUP	10/25/21 8:17			384	378	mg/L				2	10	

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ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529838													
WG529838PBW	PBW	10/19/21 17:27				U	mg/L		-5	5			
WG529838LCSW	LCSW	10/19/21 17:29	PCN64122	100		105	mg/L	105	80	120			
L69331-06DUP	DUP	10/19/21 17:58			U	U	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.05		.05085	mg/L	102	90	110			
WG530929ICB	ICB	11/03/21 13:39				.00015	mg/L		-0.00022	0.00022			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05		.05126	mg/L	103	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05	.0016	.05821	mg/L	113	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05	.0016	.0562	mg/L	109	70	130	4	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.25		.25225	mg/L	101	90	110			
WG530929CCB1	CCB	11/03/21 14:00				.00015	mg/L		-0.0003	0.0003			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.25		.24198	mg/L	97	90	110			
WG530929CCB2	CCB	11/03/21 14:22				.00019	mg/L		-0.0003	0.0003			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.25		.24926	mg/L	100	90	110			
WG530929CCB3	CCB	11/03/21 14:35				.00015	mg/L		-0.0003	0.0003			

Selenium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.05		.04752	mg/L	95	90	110			
WG530541ICB	ICB	10/28/21 17:23				.0001	mg/L		-0.0003	0.0003			
WG530541LRB	LRB	10/28/21 17:25				U	mg/L		-0.00022	0.00022			
WG530541LFB	LFB	10/28/21 17:27	MS210927-3	.05		.0471	mg/L	94	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.25		.2571	mg/L	103	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0003	0.0003			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05	.00046	.0531	mg/L	105	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05	.00046	.0541	mg/L	107	70	130	2	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.25		.25886	mg/L	104	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0003	0.0003			
WG530541CCV3	CCV	10/28/21 18:13	MS211028-2	.25		.25685	mg/L	103	90	110			
WG530541CCB3	CCB	10/28/21 18:15				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.02		.02011	mg/L	101	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00022	0.00022			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.01		.0096	mg/L	96	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.01	U	.00872	mg/L	87	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.01	U	.0083	mg/L	83	70	130	5	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.02505		.02584	mg/L	103	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0003	0.0003			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.02505		.02577	mg/L	103	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0003	0.0003			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.02505		.02568	mg/L	103	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0003	0.0003			

Silver, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.02		.01967	mg/L	98	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0003	0.0003			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00022	0.00022			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.01		.00945	mg/L	95	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.02505		.0241	mg/L	96	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0003	0.0003			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.01	.00023	.00905	mg/L	88	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.01	.00023	.00905	mg/L	88	70	130	0	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.02505		.02471	mg/L	99	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0003	0.0003			
WG530541CCV3	CCV	10/28/21 18:13	MS211028-2	.02505		.02436	mg/L	97	90	110			
WG530541CCB3	CCB	10/28/21 18:15				U	mg/L		-0.0003	0.0003			

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	100		98.59	mg/L	99	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.6	0.6			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	1.0053		1.02	mg/L	101	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	1.0053		1.07	mg/L	106	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	100.007		99.2	mg/L	99	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	100.007	2.5	106.5	mg/L	104	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	100.007	2.5	103	mg/L	100	85	115	3	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	50		48.76	mg/L	98	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.6	0.6			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	50		50.07	mg/L	100	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.6	0.6			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	50		50.05	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.6	0.6			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530774													
WG530774ICB	ICB	11/02/21 10:03				U	mg/L		-3	3			
WG530774ICV	ICV	11/02/21 10:03	WI211027-1	20.46		18.6	mg/L	91	90	110			
WG530774CCV1	CCV	11/02/21 13:08	WI211027-2	25		24.5	mg/L	98	90	110			
WG530774CCB1	CCB	11/02/21 13:08				U	mg/L		-3	3			
WG530774LFB	LFB	11/02/21 13:08	WI210105-3	10		9.8	mg/L	98	90	110			
WG530774CCV2	CCV	11/02/21 13:10	WI211027-2	25		24.3	mg/L	97	90	110			
WG530774CCB2	CCB	11/02/21 13:10				U	mg/L		-3	3			
WG530774CCV3	CCV	11/02/21 13:11	WI211027-2	25		23.9	mg/L	96	90	110			
WG530774CCB3	CCB	11/02/21 13:11				U	mg/L		-3	3			
WG530774CCV4	CCV	11/02/21 13:13	WI211027-2	25		24.2	mg/L	97	90	110			
WG530774CCB4	CCB	11/02/21 13:13				U	mg/L		-3	3			
L69230-01AS	AS	11/02/21 13:15	SO4TURB5X	10	70.6	81.5	mg/L	109	90	110			
WG530774CCV5	CCV	11/02/21 13:16	WI211027-2	25		24.4	mg/L	98	90	110			
WG530774CCB5	CCB	11/02/21 13:16				U	mg/L		-3	3			
WG530774CCV6	CCV	11/02/21 13:18	WI211027-2	25		24.2	mg/L	97	90	110			
WG530774CCB6	CCB	11/02/21 13:18				U	mg/L		-3	3			
WG530774CCV7	CCV	11/02/21 13:37	WI211027-2	25		24.8	mg/L	99	90	110			
WG530774CCB7	CCB	11/02/21 13:37				U	mg/L		-3	3			
WG530774CCV8	CCV	11/02/21 13:39	WI211027-2	25		23.9	mg/L	96	90	110			
WG530774CCB8	CCB	11/02/21 13:39				1.2	mg/L		-3	3			
WG530774CCV9	CCV	11/02/21 13:51	WI211027-2	25		24.4	mg/L	98	90	110			
WG530774CCB9	CCB	11/02/21 13:51				U	mg/L		-3	3			
L69220-04DUP	DUP	11/02/21 13:51			3320	3347.9	mg/L				1	20	
WG530774CCV10	CCV	11/02/21 13:53	WI211027-2	25		24.3	mg/L	97	90	110			
WG530774CCB10	CCB	11/02/21 13:53				U	mg/L		-3	3			

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.05		.05272	mg/L	105	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00022	0.00022			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05		.05021	mg/L	100	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05	U	.05227	mg/L	105	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05	U	.0521	mg/L	104	70	130	0	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.1		.10133	mg/L	101	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0003	0.0003			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.1		.10057	mg/L	101	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0003	0.0003			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.1		.1002	mg/L	100	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.05		.05119	mg/L	102	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0003	0.0003			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00022	0.00022			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.05		.04971	mg/L	99	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.1		.10401	mg/L	104	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0003	0.0003			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05	.00062	.05126	mg/L	101	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05	.00062	.05036	mg/L	99	70	130	2	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.1		.10238	mg/L	102	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0003	0.0003			

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530929													
WG530929ICV	ICV	11/03/21 13:37	MS211013-2	.05		.05116	mg/L	102	90	110			
WG530929ICB	ICB	11/03/21 13:39				U	mg/L		-0.00022	0.00022			
WG530929LFB	LFB	11/03/21 13:40	MS210927-3	.05		.05119	mg/L	102	85	115			
L69242-01AS	AS	11/03/21 13:49	MS210927-3	.05	.00553	.05967	mg/L	108	70	130			
L69242-01ASD	ASD	11/03/21 13:51	MS210927-3	.05	.00553	.0588	mg/L	107	70	130	1	20	
WG530929CCV1	CCV	11/03/21 13:59	MS211028-2	.1		.10201	mg/L	102	90	110			
WG530929CCB1	CCB	11/03/21 14:00				U	mg/L		-0.0003	0.0003			
WG530929CCV2	CCV	11/03/21 14:20	MS211028-2	.1		.0991	mg/L	99	90	110			
WG530929CCB2	CCB	11/03/21 14:22				U	mg/L		-0.0003	0.0003			
WG530929CCV3	CCV	11/03/21 14:33	MS211028-2	.1		.10162	mg/L	102	90	110			
WG530929CCB3	CCB	11/03/21 14:35				U	mg/L		-0.0003	0.0003			

Uranium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530541													
WG530541ICV	ICV	10/28/21 17:22	MS211013-2	.05		.04973	mg/L	99	90	110			
WG530541ICB	ICB	10/28/21 17:23				U	mg/L		-0.0003	0.0003			
WG530351LRB	LRB	10/28/21 17:25				U	mg/L		-0.00022	0.00022			
WG530351LFB	LFB	10/28/21 17:27	MS210927-3	.05		.04899	mg/L	98	85	115			
WG530541CCV1	CCV	10/28/21 17:38	MS211028-2	.1		.10243	mg/L	102	90	110			
WG530541CCB1	CCB	10/28/21 17:39				U	mg/L		-0.0003	0.0003			
L69387-01LFM	LFM	10/28/21 17:48	MS210927-3	.05	.047	.09713	mg/L	100	70	130			
L69387-01LFMD	LFMD	10/28/21 17:49	MS210927-3	.05	.047	.09875	mg/L	104	70	130	2	20	
WG530541CCV2	CCV	10/28/21 17:57	MS211028-2	.1		.10353	mg/L	104	90	110			
WG530541CCB2	CCB	10/28/21 17:59				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530381													
WG530381ICV	ICV	10/27/21 16:31	II211014-1	2		1.916	mg/L	96	95	105			
WG530381ICB	ICB	10/27/21 16:37				U	mg/L		-0.06	0.06			
WG530381PQV	PQV	10/27/21 16:40	II211003-2	.05015		.062	mg/L	124	70	130			
WG530381SIC	SIC	10/27/21 16:43	II211004-1	.1003		.111	mg/L	111	80	120			
WG530381LFB	LFB	10/27/21 16:49	II211024-2	.50045		.504	mg/L	101	85	115			
L69340-02AS	AS	10/27/21 17:08	II211024-2	.50045	.059	.588	mg/L	106	85	115			
L69340-02ASD	ASD	10/27/21 17:11	II211024-2	.50045	.059	.576	mg/L	103	85	115	2	20	
WG530381CCV1	CCV	10/27/21 17:20	II211014-2	1		.963	mg/L	96	90	110			
WG530381CCB1	CCB	10/27/21 17:23				U	mg/L		-0.06	0.06			
WG530381CCV2	CCV	10/27/21 17:57	II211014-2	1		.989	mg/L	99	90	110			
WG530381CCB2	CCB	10/27/21 18:00				U	mg/L		-0.06	0.06			
WG530381CCV3	CCV	10/27/21 18:18	II211014-2	1		.998	mg/L	100	90	110			
WG530381CCB3	CCB	10/27/21 18:21				U	mg/L		-0.06	0.06			

Zinc, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530657													
WG530657ICV	ICV	10/31/21 22:47	II211013-1	2		1.952	mg/L	98	95	105			
WG530657ICB	ICB	10/31/21 22:53				U	mg/L		-0.06	0.06			
WG530657PQV	PQV	10/31/21 22:56	II211003-2	.05015		.05	mg/L	100	70	130			
WG530657SIC	SIC	10/31/21 23:00	II210927-1	.1003		.093	mg/L	93	80	120			
WG530461LRB	LRB	10/31/21 23:06				U	mg/L		-0.044	0.044			
WG530461LFB	LFB	10/31/21 23:09	II211024-2	.50045		.519	mg/L	104	85	115			
L69231-01LFM	LFM	10/31/21 23:21	II211024-2	.50045	.074	.587	mg/L	103	70	130			
L69231-01LFMD	LFMD	10/31/21 23:24	II211024-2	.50045	.074	.573	mg/L	100	70	130	2	20	
WG530657CCV1	CCV	10/31/21 23:36	II211024-3	1		.943	mg/L	94	90	110			
WG530657CCB1	CCB	10/31/21 23:39				U	mg/L		-0.06	0.06			
WG530657CCV2	CCV	11/01/21 0:14	II211024-3	1		.98	mg/L	98	90	110			
WG530657CCB2	CCB	11/01/21 0:17				U	mg/L		-0.06	0.06			
WG530657CCV3	CCV	11/01/21 0:38	II211024-3	1		.988	mg/L	99	90	110			
WG530657CCB3	CCB	11/01/21 0:41				U	mg/L		-0.06	0.06			

Ensero Solutions

ACZ Project ID: **L69240**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69240-01	WG531269	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG530333	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531079	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531153	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG529838	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L69240-02	WG531269	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG530333	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531079	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531153	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG529838	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L69240-03	WG531269	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG530333	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531079	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531153	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530165	Residue, Filterable (TDS) @180C	SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
	WG529838	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-15

Locator:

ACZ Sample ID: **L69240-01**

Date Sampled: 10/12/21 12:03

Date Received: 10/14/21

Sample Matrix: *Surface Water*

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	12/13/21 9:20		36			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/05/21 0:11		230	20	11	pCi/L		mhm
Gross Beta	11/05/21 0:11		82	6.8	10	pCi/L	*	mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/10/21 0:12		52	0.95	0.53	pCi/L		ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	12/09/21 0:12		33	0.59	0.26	pCi/L	*	fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/30/21 20:14		3	0.74	1.6	pCi/L	*	ess

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-13

Locator:

ACZ Sample ID: **L69240-02**

Date Sampled: 10/13/21 11:04

Date Received: 10/14/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	12/13/21 9:20		3.7			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/05/21 0:12		28	5.6	17	pCi/L		mhm
Gross Beta	11/05/21 0:12		19	4.3	21	pCi/L	*	mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/10/21 0:15		0.54	0.11	0.39	pCi/L		ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	12/09/21 0:14		0.29	0.07	0.33	pCi/L	*	fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/30/21 20:14		3.7	0.79	1.6	pCi/L	*	ess

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-14

Locator:

ACZ Sample ID: **L69240-03**

Date Sampled: 10/13/21 12:34

Date Received: 10/14/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	12/13/21 9:20		2.6			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/05/21 0:14		3.1	2.1	16	pCi/L		mhm
Gross Beta	11/05/21 0:14		9.4	3.5	22	pCi/L	*	mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/09/21 0:15		0.12	0.06	0.41	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	12/06/21 0:23		0.16	0.06	0.45	pCi/L	*	fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/30/21 20:14		2.6	0.78	1.5	pCi/L	*	ess

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://aczk.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG530241																
WG530241PBW	PBW	11/05/21						1	1.3	12			24			
WG530241LCSWA	LCSW	11/05/21	PCN64375	100				90	8.2	12	90	67	144			
L69242-02DUP	DUP-RPD	11/05/21			8.9	3.8	8.9	10	4.2	7.9				12	20	
L69433-01DUP	DUP-RPD	11/05/21			47	26	72	37	24	62				24	20	RG
L69433-01DUP	DUP-RER	11/05/21			47	26	72	37	24	62				0.28	2	
L69433-01MSA	MS	11/05/21	PCN64375	588.24	47	26	72	550	74	51	86	67	144			

Beta		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG530241																
WG530241PBW	PBW	11/05/21						.23	3.1	20			40			
WG530241LCSWB	LCSW	11/05/21	RC210621-11	49.9				52	5.2	7.6	104	82	122			
L69242-02DUP	DUP-RER	11/05/21			4.4	3.3	6.3	7.5	3.8	11				0.62	2	
L69242-02DUP	DUP-RPD	11/05/21			4.4	3.3	6.3	7.5	3.8	11				52	20	RG
L69433-01DUP	DUP-RER	11/05/21			48	22	39	65	24	67				0.52	2	
L69433-01DUP	DUP-RPD	11/05/21			48	22	39	65	24	67				30	20	RG
L69433-01MSB	MS	11/05/21	RC210621-11	293.53	48	22	39	290	33	83	82	82	122			

Radium 226, dissolved		M903.1										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG532562																
WG532562LCSW	LCSW	12/10/21	PCN64374	20				25	0.62	0.42	125	43	148			
WG532562PBW	PBW	12/10/21						.03	0.09	0.56			1.12			
L69240-01DUP	DUP-RPD	12/10/21			52	0.95	0.53	44	0.87	0.5				17	20	
L69361-01MS	MS	12/10/21	PCN64374	20	0.17	0.09	0.42	22	0.56	0.47	109	43	148			
L69362-02DUP	DUP-RPD	12/10/21			0.21	0.11	0.33	.04	0.11	0.35				136	20	RG
L69362-02DUP	DUP-RER	12/10/21			0.21	0.11	0.33	.04	0.11	0.35				1.09	2	

ENSERO

ACZ Project ID: **L69240**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Radium 226, total

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG532082																
WG532082LCSW	LCSW	12/06/21	PCN64374	20				17	0.49	0.45	85	43	148			
WG532082PBW	PBW	12/06/21						.12	0.1	0.76			1.52			
L69101-04DUP	DUP-RPD	12/06/21			1.2	0.13	0.37	1.1	0.13	0.31				9	20	
L69101-06MS	MS	12/06/21	PCN64374	20	1.3	0.16	0.48	15	0.41	0.19	69	43	148			
L69349-02DUP	DUP-RER	12/06/21			0.18	0.07	0.27	.12	0.08	0.1				0.56	2	
L69349-02DUP	DUP-RPD	12/06/21			0.18	0.07	0.27	.12	0.08	0.1				40	20	RG
WG532513																
WG532513LCSW	LCSW	12/09/21	PCN64374	20				17	0.45	0.08	85	43	148			
WG532513PBW	PBW	12/09/21						-.04	0.1	0.11			0.22			
L69176-01MS	MS	12/09/21	PCN64374	20	1.2	0.14	0.42	18	0.42	0.17	84	43	148			
L69240-03DUP	DUP-RER	12/09/21			0.12	0.06	0.41	.09	0.05	0.26				0.38	2	
L69240-03DUP	DUP-RPD	12/09/21			0.12	0.06	0.41	.09	0.05	0.26				29	20	RG
L69122-04DUP	DUP-RER	12/09/21			0.41	0.11	0.53	.29	0.09	0.41				0.84	2	
L69122-04DUP	DUP-RPD	12/09/21			0.41	0.11	0.53	.29	0.09	0.41				34	20	RG

Radium 228, total

M904.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG530124																
WG530124LCSW	LCSW	10/30/21	PCN63356	9.32				12	1	0.61	129	47	123			N1
WG530124PBW	PBW	10/30/21						1.1	0.73	0.71			1.42			
L69176-01DUP	DUP-RPD	10/30/21			2.1	0.74	1.6	2.9	0.83	1.7				32	20	RG
L69176-01DUP	DUP-RER	10/30/21			2.1	0.74	1.6	2.9	0.83	1.7				0.72	2	
L69240-02MS	MS	10/30/21	PCN63356	9.32	3.7	0.79	1.6	11	1.1	1.6	78	47	123			
L69349-01DUP	DUP-RER	11/03/21			-0.36	0.85	2.1	1	0.74	1.8				1.21	2	
L69349-01DUP	DUP-RPD	11/03/21			-0.36	0.85	2.1	1	0.74	1.8				425	20	RG

Ensero Solutions

ACZ Project ID: **L69240**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69240-01	WG530241	Gross Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG532513	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	N1	See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	N1	See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L69240-02	WG530241	Gross Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG532513	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	N1	See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	N1	See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L69240-03	WG530241	Gross Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG532513	Radium 226, dissolved	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG532082	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	N1	See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG530124	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Ensero Solutions

ACZ Project ID: **L69240**

No certification qualifiers associated with this analysis

Ensero Solutions
3100-PO205

ACZ Project ID: L69240
Date Received: 10/14/2021 10:52
Received By:
Date Printed: 10/15/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6047	2.6	<=6.0	15	N/A
6242	1	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Ensero Solutions
3100-PO205

ACZ Project ID: L69240

Date Received: 10/14/2021 10:52

Received By:

Date Printed: 10/15/2021

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Christie Brizinski

Company: Ensero Solutions

E-mail: cbrizinski@ensero.com

Address: 131 E. Lincoln Ave Ste. 200

Fort Collins, CO 80524

Telephone: 867-668-6463, ext 229

Copy of Report to:

Name: Evan Valencia

Company: Ensero Solutions

E-mail: evalencia@ensero.com

Telephone: 818-688-1839

Invoice to:

Name: Pauline Wong

Company: Ensero Solutions

E-mail: ap@ensero.com

Address: 131 E. Lincoln Ave Ste. 200

Fort Collins, CO 80524

Telephone: 778-404-1182

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES



NO



Are samples for SDWA Compliance Monitoring?

Yes



No



If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: EV

Sampler's Site Information

State CO

Zip code 80401

Time Zone MTN

*Sampler's Signature: *EV*

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: Ensero-2020

PO#: 3100-PO205

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

TSS

Sample suite #1

Sample suite #2

COD

LLHG trip blank

Sample suite #3

TDS

MW-15

10-12-2021: 12:03

GW

9



MW-13

10-13-2021: 11:04

GW

9



MW-14

10-13-2021: 12:34

GW

9



Matrix

SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

27 containers accounted for by this COC. Shipped 10/13/2021.
Cooler 1 of 2 accounted for by this COC

Please also send reports to importer@alexco.ehsdata.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

E. Valencia

10/13/21: 1430

[Signature]

10/14/21 1052

FRMAD050.06.14.14

White - Return with sample. Yellow - Retain for your records.

January 11, 2022

Report to:

Christie Brizinski
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

Bill to:

Pauline Wong
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

cc: Ensero/Alexco Importer, Evan Valencia

Project ID: 3100-PO205

ACZ Project ID: L69450

Christie Brizinski:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 22, 2021. This project has been assigned to ACZ's project number, L69450. Please reference this number in all future inquiries.

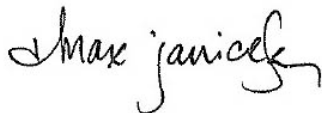
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L69450. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 10, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and
approved this report.



Ensero Solutions

January 11, 2022

Project ID: 3100-PO205

ACZ Project ID: L69450

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 miscellaneous samples from Ensero Solutions on October 22, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L69450. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG532935

Qualifier: N1

Applies to:

L69450-01/RADIUM 226

L69450-02/RADIUM 226

L69450-03/RADIUM 226

L69450-01DUP duplicate precision assessment outside of acceptance limits. Analyst noted that during the filling of cells, L69450-01 filled quickly due to an issue with the vacuum seal. This accounts for the discrepancy in counts between parent sample and DUP. Additional batch duplicate showed adequate precision.

Ensero Solutions

Project ID: 3100-PO205

Sample ID: RAW FEED

ACZ Sample ID: **L69450-01**

Date Sampled: 10/19/21 10:00

Date Received: 10/22/21

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								11/02/21 12:50	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 12:18	bls
Total Hot Plate Digestion	M200.2 ICP-MS								11/05/21 8:20	mfm
Total Hot Plate Digestion	M200.2 ICP								10/31/21 16:40	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: RAW FEED

ACZ Sample ID: **L69450-01**

Date Sampled: 10/19/21 10:00

Date Received: 10/22/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	2	<0.1	U		mg/L	0.1	0.5	11/10/21 0:55	jlw
Aluminum, total	M200.7 ICP	2	<0.1	U		mg/L	0.1	0.5	11/02/21 13:39	kja
Antimony, dissolved	M200.8 ICP-MS	2	<0.0008	U		mg/L	0.0008	0.004	11/09/21 18:48	mfm
Antimony, total	M200.8 ICP-MS	2	<0.0008	U		mg/L	0.0008	0.004	11/08/21 18:11	bsu
Arsenic, dissolved	M200.8 ICP-MS	2	0.0135			mg/L	0.0004	0.002	11/09/21 18:48	mfm
Arsenic, total	M200.8 ICP-MS	2	0.0146			mg/L	0.0004	0.002	11/08/21 18:11	bsu
Boron, dissolved	M200.7 ICP	2	0.236			mg/L	0.06	0.2	11/10/21 0:55	jlw
Boron, total	M200.7 ICP	2	0.285			mg/L	0.06	0.2	11/02/21 13:39	kja
Calcium, dissolved	M200.7 ICP	2	282			mg/L	0.2	1	11/10/21 0:55	jlw
Chromium, dissolved	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	11/10/21 0:55	jlw
Chromium, total	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	11/02/21 13:39	kja
Copper, dissolved	M200.7 ICP	2	<0.02	U		mg/L	0.02	0.1	11/10/21 0:55	jlw
Copper, total	M200.7 ICP	2	<0.02	U		mg/L	0.02	0.1	11/02/21 13:39	kja
Iron, dissolved	M200.7 ICP	2	4.24			mg/L	0.12	0.3	11/10/21 0:55	jlw
Iron, total	M200.7 ICP	2	7.68			mg/L	0.12	0.3	11/02/21 13:39	kja
Lead, dissolved	M200.8 ICP-MS	200	<0.02	U	*	mg/L	0.02	0.1	11/11/21 9:48	mfm
Lead, total	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.001	11/08/21 18:11	bsu
Magnesium, dissolved	M200.7 ICP	2	219			mg/L	0.4	2	11/10/21 0:55	jlw
Manganese, dissolved	M200.7 ICP	2	0.711			mg/L	0.02	0.1	11/10/21 0:55	jlw
Manganese, total	M200.7 ICP	2	0.738			mg/L	0.02	0.1	11/02/21 13:39	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/29/21 7:39	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/29/21 8:30	mlh
Molybdenum, dissolved	M200.8 ICP-MS	2	0.929			mg/L	0.0004	0.001	11/09/21 18:48	mfm
Molybdenum, total	M200.8 ICP-MS	2	0.830			mg/L	0.0004	0.001	11/08/21 18:11	bsu
Potassium, dissolved	M200.7 ICP	2	25.5			mg/L	0.4	2	11/10/21 0:55	jlw
Selenium, dissolved	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.0005	11/09/21 18:48	mfm
Selenium, total	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.0005	11/08/21 18:11	bsu
Silver, dissolved	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.001	11/09/21 18:48	mfm
Silver, total	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.001	11/08/21 18:11	bsu
Sodium, dissolved	M200.7 ICP	2	252			mg/L	0.4	2	11/10/21 0:55	jlw
Thallium, dissolved	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.001	11/09/21 18:48	mfm
Thallium, total	M200.8 ICP-MS	2	<0.0002	U		mg/L	0.0002	0.001	11/08/21 18:11	bsu
Uranium, dissolved	M200.8 ICP-MS	200	13.9		*	mg/L	0.02	0.1	11/11/21 9:48	mfm
Uranium, total	M200.8 ICP-MS	100	14.6			mg/L	0.01	0.05	11/08/21 17:22	bsu
Zinc, dissolved	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	11/10/21 0:55	jlw
Zinc, total	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	11/02/21 13:39	kja

Ensero Solutions

Project ID: 3100-PO205
Sample ID: RAW FEED

ACZ Sample ID: **L69450-01**
Date Sampled: 10/19/21 10:00
Date Received: 10/22/21
Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	693			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	693			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-1.1			%			01/11/22 0:00	calc
Sum of Anions			45			meq/L			01/11/22 0:00	calc
Sum of Cations			44			meq/L			01/11/22 0:00	calc
Chloride	SM4500Cl-E	1	45.4		*	mg/L	0.5	2	11/16/21 13:25	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	11/03/21 12:36	mjj1
Fluoride	SM4500F-C	1	1.37			mg/L	0.15	0.35	11/09/21 15:13	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.228		*	mg/L	0.02	0.1	11/13/21 23:15	pjb
Phosphate, total	Calculation based on total Phosphorus		4.46			mg/L	0.06	0.3	01/11/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	2	1.44		*	mg/L	0.02	0.1	11/07/21 18:10	syw
Residue, Filterable (TDS) @180C	SM2540C	2	2790			mg/L	40	80	10/25/21 15:59	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	20.0		*	mg/L	5	20	10/25/21 12:11	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	100	1400			mg/L	100	500	11/15/21 10:57	mjj1
TDS (calculated)	Calculation		2650			mg/L			01/11/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						01/11/22 0:00	calc

Ensero Solutions

Project ID: 3100-PO205
Sample ID: SW-ARH

ACZ Sample ID: **L69450-02**
Date Sampled: 10/21/21 11:10
Date Received: 10/22/21
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								11/04/21 10:19	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 12:35	bls
Total Hot Plate Digestion	M200.2 ICP-MS								11/05/21 8:20	mfm
Total Hot Plate Digestion	M200.2 ICP								10/31/21 16:54	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-ARH

ACZ Sample ID: **L69450-02**

Date Sampled: 10/21/21 11:10

Date Received: 10/22/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	11/10/21 0:59	jlw
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	11/02/21 13:42	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/09/21 18:49	mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/08/21 17:24	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00070	B		mg/L	0.0002	0.001	11/09/21 18:49	mfm
Arsenic, total	M200.8 ICP-MS	1	0.00078	B		mg/L	0.0002	0.001	11/08/21 17:24	bsu
Boron, dissolved	M200.7 ICP	1	0.120			mg/L	0.03	0.1	11/10/21 0:59	jlw
Boron, total	M200.7 ICP	1	0.135			mg/L	0.03	0.1	11/02/21 13:42	kja
Calcium, dissolved	M200.7 ICP	1	49.8			mg/L	0.1	0.5	11/10/21 0:59	jlw
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/10/21 0:59	jlw
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/02/21 13:42	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/10/21 0:59	jlw
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/02/21 13:42	kja
Iron, dissolved	M200.7 ICP	1	0.117	B		mg/L	0.06	0.15	11/10/21 0:59	jlw
Iron, total	M200.7 ICP	1	0.422			mg/L	0.06	0.15	11/02/21 13:42	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/11/21 9:50	mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:24	bsu
Magnesium, dissolved	M200.7 ICP	1	16.4			mg/L	0.2	1	11/10/21 0:59	jlw
Manganese, dissolved	M200.7 ICP	1	0.190			mg/L	0.01	0.05	11/10/21 0:59	jlw
Manganese, total	M200.7 ICP	1	0.209			mg/L	0.01	0.05	11/02/21 13:42	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/29/21 7:40	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/29/21 8:31	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0141			mg/L	0.0002	0.0005	11/09/21 18:49	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0132			mg/L	0.0002	0.0005	11/08/21 17:24	bsu
Potassium, dissolved	M200.7 ICP	1	3.53			mg/L	0.2	1	11/10/21 0:59	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0001	0.00025	11/09/21 18:49	mfm
Selenium, total	M200.8 ICP-MS	1	0.00073			mg/L	0.0001	0.00025	11/08/21 17:24	bsu
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/09/21 18:49	mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:24	bsu
Sodium, dissolved	M200.7 ICP	1	99.5			mg/L	0.2	1	11/10/21 0:59	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/09/21 18:49	mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:24	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.111		*	mg/L	0.0001	0.0005	11/11/21 9:50	mfm
Uranium, total	M200.8 ICP-MS	1	0.109			mg/L	0.0001	0.0005	11/08/21 17:24	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/10/21 0:59	jlw
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/02/21 13:42	kja

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-ARH

ACZ Sample ID: **L69450-02**

Date Sampled: 10/21/21 11:10

Date Received: 10/22/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	190			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	15.0	B		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	205			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-1.2			%			01/11/22 0:00	calc
Sum of Anions			8.5			meq/L			01/11/22 0:00	calc
Sum of Cations			8.3			meq/L			01/11/22 0:00	calc
Chloride	SM4500Cl-E	1	24.6		*	mg/L	0.5	2	11/16/21 13:26	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/04/21 17:23	md
Fluoride	SM4500F-C	1	0.53			mg/L	0.15	0.35	11/09/21 15:17	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	11/13/21 23:17	pjb
Phosphate, total	Calculation based on total Phosphorus		0.0434	B		mg/L	0.03	0.2	01/11/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.014	B	*	mg/L	0.01	0.05	11/07/21 17:42	syw
Residue, Filterable (TDS) @180C	SM2540C	1	496			mg/L	20	40	10/25/21 16:02	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/25/21 12:13	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	177			mg/L	5	25	11/15/21 10:22	mjj1
TDS (calculated)	Calculation		497			mg/L			01/11/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						01/11/22 0:00	calc

Ensero Solutions

Project ID: 3100-PO205
Sample ID: MW-19

ACZ Sample ID: **L69450-03**
Date Sampled: 10/21/21 13:04
Date Received: 10/22/21
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								11/02/21 13:08	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 12:52	bls
Total Hot Plate Digestion	M200.2 ICP								10/31/21 17:08	kja
Total Hot Plate Digestion	M200.2 ICP-MS								11/05/21 8:20	mfm

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-19

ACZ Sample ID: **L69450-03**

Date Sampled: 10/21/21 13:04

Date Received: 10/22/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	11/10/21 1:02	jlw
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	11/02/21 13:45	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00044	B		mg/L	0.0004	0.002	11/09/21 18:55	mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/08/21 17:26	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	11/09/21 18:55	mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	11/08/21 17:26	bsu
Boron, dissolved	M200.7 ICP	1	0.053	B		mg/L	0.03	0.1	11/10/21 1:02	jlw
Boron, total	M200.7 ICP	1	0.076	B		mg/L	0.03	0.1	11/02/21 13:45	kja
Calcium, dissolved	M200.7 ICP	1	79.0			mg/L	0.1	0.5	11/10/21 1:02	jlw
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/10/21 1:02	jlw
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/02/21 13:45	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/10/21 1:02	jlw
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/02/21 13:45	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/10/21 1:02	jlw
Iron, total	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/02/21 13:45	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/11/21 9:52	mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:26	bsu
Magnesium, dissolved	M200.7 ICP	1	51.3			mg/L	0.2	1	11/10/21 1:02	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/10/21 1:02	jlw
Manganese, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/02/21 13:45	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/29/21 7:43	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/04/21 13:30	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0318			mg/L	0.0002	0.0005	11/09/21 18:55	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0310			mg/L	0.0002	0.0005	11/08/21 17:26	bsu
Potassium, dissolved	M200.7 ICP	1	4.45			mg/L	0.2	1	11/10/21 1:02	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00118			mg/L	0.0001	0.00025	11/09/21 18:55	mfm
Selenium, total	M200.8 ICP-MS	1	0.00114			mg/L	0.0001	0.00025	11/08/21 17:26	bsu
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/09/21 18:55	mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:26	bsu
Sodium, dissolved	M200.7 ICP	1	40.9			mg/L	0.2	1	11/10/21 1:02	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/09/21 18:55	mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/08/21 17:26	bsu
Uranium, dissolved	M200.8 ICP-MS	1	1.17			mg/L	0.0001	0.0005	11/09/21 18:55	mfm
Uranium, total	M200.8 ICP-MS	1	1.13			mg/L	0.0001	0.0005	11/08/21 17:26	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/10/21 1:02	jlw
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/02/21 13:45	kja

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Project ID: 3100-PO205
Sample ID: MW-19

ACZ Sample ID: **L69450-03**
Date Sampled: 10/21/21 13:04
Date Received: 10/22/21
Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	191			mg/L	2	20	10/23/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/23/21 0:00	eep
Total Alkalinity		1	191			mg/L	2	20	10/23/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/11/22 0:00	calc
Sum of Anions			10			meq/L			01/11/22 0:00	calc
Sum of Cations			10			meq/L			01/11/22 0:00	calc
Chloride	SM4500Cl-E	1	9.77		*	mg/L	0.5	2	11/16/21 13:26	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/03/21 12:37	mjj1
Fluoride	SM4500F-C	1	0.37			mg/L	0.15	0.35	11/09/21 15:37	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	1.80		*	mg/L	0.02	0.1	11/13/21 23:22	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	01/11/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	11/07/21 17:44	syw
Residue, Filterable (TDS) @180C	SM2540C	1	620			mg/L	20	40	10/28/21 11:22	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/25/21 12:16	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	298			mg/L	25	125	11/15/21 10:45	mjj1
TDS (calculated)	Calculation		600			mg/L			01/11/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						01/11/22 0:00	calc

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

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ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530117													
WG530117PBW1	PBW	10/22/21 22:06				5.9	mg/L		-20	20			
WG530117PBW2	PBW	10/23/21 1:10				3.2	mg/L		-20	20			
WG530117PBW3	PBW	10/23/21 3:55				5.2	mg/L		-20	20			
WG530117PBW4	PBW	10/23/21 8:02				5	mg/L		-20	20			
L69450-03DUP	DUP	10/23/21 10:28			191	191.7	mg/L				0	20	

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.952	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.15	0.15			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.250325		.235	mg/L	94	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	200.410325		205	mg/L	102	1	200			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	1.0008		1.024	mg/L	102	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	1.0008	U	1.021	mg/L	102	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	1.0008	U	1.026	mg/L	103	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.939	mg/L	94	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.15	0.15			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.946	mg/L	95	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.15	0.15			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.939	mg/L	94	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.15	0.15			

Aluminum, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.971	mg/L	99	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.15	0.15			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.250325		.26	mg/L	104	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	200.410325		209.3	mg/L	104	1	200			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.11	0.11			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	1.0008		1.052	mg/L	105	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	1.0008	U	1.051	mg/L	105	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	1.0008	U	1.053	mg/L	105	70	130	0	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.997	mg/L	100	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.15	0.15			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		1.015	mg/L	102	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.15	0.15			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		1.008	mg/L	101	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.15	0.15			

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ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.0201		.02055	mg/L	102	90	110			
WG531353ICB	ICB	11/09/21 18:39				.00042	mg/L		-0.00088	0.00088			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.01		.00923	mg/L	92	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.01	U	.00843	mg/L	84	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.01	U	.00875	mg/L	88	70	130	4	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.0125		.01172	mg/L	94	90	110			
WG531353CCB1	CCB	11/09/21 19:00				U	mg/L		-0.0012	0.0012			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.0125		.01198	mg/L	96	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0012	0.0012			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.0125		.01192	mg/L	95	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0012	0.0012			

Antimony, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.0201		.0201	mg/L	100	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0012	0.0012			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00088	0.00088			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.01		.01118	mg/L	112	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.01	.00065	.0123	mg/L	117	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.0125		.0127	mg/L	102	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0012	0.0012			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.01	.00065	.01243	mg/L	118	70	130	1	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.0125		.01277	mg/L	102	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0012	0.0012			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.0125		.01255	mg/L	100	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0012	0.0012			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.0125		.01276	mg/L	102	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0012	0.0012			

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.05		.0519	mg/L	104	90	110			
WG531353ICB	ICB	11/09/21 18:39				U	mg/L		-0.00044	0.00044			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.05005		.04869	mg/L	97	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.05005	.0007	.06004	mg/L	119	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.05005	.0007	.05963	mg/L	118	70	130	1	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.1001		.10269	mg/L	103	90	110			
WG531353CCB1	CCB	11/09/21 19:00				U	mg/L		-0.0006	0.0006			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.1001		.10091	mg/L	101	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0006	0.0006			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.1001		.09855	mg/L	98	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0006	0.0006			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Arsenic, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.05		.04978	mg/L	100	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0006	0.0006			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00044	0.00044			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05005		.04855	mg/L	97	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05005	.0418	.09544	mg/L	107	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.1001		.10337	mg/L	103	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0006	0.0006			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05005	.0418	.09547	mg/L	107	70	130	0	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.1001		.10262	mg/L	103	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0006	0.0006			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.1001		.10341	mg/L	103	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0006	0.0006			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.1001		.10008	mg/L	100	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0006	0.0006			

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		2.035	mg/L	102	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.09	0.09			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.1001		.103	mg/L	103	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	.1001		.095	mg/L	95	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	.5005		.517	mg/L	103	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	.5005	.053	.583	mg/L	106	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	.5005	.053	.59	mg/L	107	85	115	1	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.985	mg/L	99	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.09	0.09			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.975	mg/L	98	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.09	0.09			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.979	mg/L	98	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.09	0.09			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Boron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.969	mg/L	98	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.09	0.09			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.1001		.114	mg/L	114	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	.1001		.108	mg/L	108	80	120			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.066	0.066			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	.5005		.521	mg/L	104	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	.5005	U	.526	mg/L	105	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	.5005	U	.529	mg/L	106	70	130	1	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.953	mg/L	95	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.09	0.09			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.97	mg/L	97	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.09	0.09			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.96	mg/L	96	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.09	0.09			

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	100		97.7	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.3	0.3			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.50015		.5	mg/L	100	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	200.56015		195.7	mg/L	98	1	200			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	67.98808		70.39	mg/L	104	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	67.98808	79	144.4	mg/L	96	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	67.98808	79	145.2	mg/L	97	85	115	1	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	50		47.7	mg/L	95	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.3	0.3			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	50		47.5	mg/L	95	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.3	0.3			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	50		47.61	mg/L	95	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.3	0.3			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531787													
WG531787ICV	ICV	11/16/21 13:21	WI210503-1	54.89		53.75	mg/L	98	90	110			
WG531787ICB	ICB	11/16/21 13:21				U	mg/L		-1.5	1.5			
WG531787LFB1	LFB	11/16/21 13:22	WI210908-11	29.97		29.54	mg/L	99	90	110			
L69443-01DUP	DUP	11/16/21 13:24			.94	.72	mg/L				27	20	RA
WG531787CCV1	CCV	11/16/21 13:27	WI210203-7	50.05		52.33	mg/L	105	90	110			
WG531787CCB1	CCB	11/16/21 13:28				U	mg/L		-1.5	1.5			
WG531787CCV2	CCV	11/16/21 13:33	WI210203-7	50.05		50.91	mg/L	102	90	110			
WG531787CCB2	CCB	11/16/21 13:34				U	mg/L		-1.5	1.5			
WG531787LFB2	LFB	11/16/21 13:37	WI210908-11	29.97		29.33	mg/L	98	90	110			
WG531787CCV3	CCV	11/16/21 13:39	WI210203-7	50.05		52.02	mg/L	104	90	110			
WG531787CCB3	CCB	11/16/21 13:40				U	mg/L		-1.5	1.5			
WG531787CCV4	CCV	11/16/21 13:44	WI210203-7	50.05		52.76	mg/L	105	90	110			
WG531787CCB4	CCB	11/16/21 13:45				.83	mg/L		-1.5	1.5			
WG531787CCV5	CCV	11/16/21 14:00	WI210203-7	50.05		54.13	mg/L	108	90	110			
WG531787CCB5	CCB	11/16/21 14:00				.89	mg/L		-1.5	1.5			
WG531787CCV6	CCV	11/16/21 14:06	WI210203-7	50.05		53.53	mg/L	107	90	110			
WG531787CCB6	CCB	11/16/21 14:06				.63	mg/L		-1.5	1.5			
WG531787CCV10	CCV	11/16/21 14:36	WI210203-7	50.05		53.33	mg/L	107	90	110			
WG531787CCB10	CCB	11/16/21 14:36				.84	mg/L		-1.5	1.5			
WG531787CCV11	CCV	11/16/21 14:41	WI210203-7	50.05		52.8	mg/L	105	90	110			
WG531787CCB11	CCB	11/16/21 14:41				1.12	mg/L		-1.5	1.5			
WG531787CCV12	CCV	11/16/21 15:33	WI210203-7	50.05		53.27	mg/L	106	90	110			
WG531787CCB12	CCB	11/16/21 15:34				.56	mg/L		-1.5	1.5			
L69442-01AS	AS	11/16/21 15:35	5XCL	30	440	455.25	mg/L	51	90	110			M2
WG531787CCV13	CCV	11/16/21 15:37	WI210203-7	50.05		53.83	mg/L	108	90	110			
WG531787CCB13	CCB	11/16/21 15:38				.68	mg/L		-1.5	1.5			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.953	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.06	0.06			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.0502		.051	mg/L	102	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	.1004		.086	mg/L	86	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	.5005		.505	mg/L	101	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	.5005	U	.504	mg/L	101	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	.5005	U	.505	mg/L	101	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.953	mg/L	95	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.06	0.06			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.949	mg/L	95	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.06	0.06			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.951	mg/L	95	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.06	0.06			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.958	mg/L	98	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.06	0.06			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.0502		.052	mg/L	104	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	.1004		.107	mg/L	107	80	120			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.044	0.044			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	.5005		.521	mg/L	104	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	.5005	U	.529	mg/L	106	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	.5005	U	.528	mg/L	105	70	130	0	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.96	mg/L	96	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.06	0.06			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.981	mg/L	98	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.06	0.06			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.973	mg/L	97	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.912	mg/L	96	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.03	0.03			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.05		.046	mg/L	92	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	.1		.101	mg/L	101	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	.5		.486	mg/L	97	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	.5	U	.481	mg/L	96	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	.5	U	.483	mg/L	97	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.926	mg/L	93	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.03	0.03			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.932	mg/L	93	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.03	0.03			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.926	mg/L	93	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.943	mg/L	97	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.03	0.03			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.05		.052	mg/L	104	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	.1		.097	mg/L	97	80	120			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.022	0.022			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	.5		.522	mg/L	104	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	.5	U	.529	mg/L	106	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	.5	U	.535	mg/L	107	70	130	1	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.949	mg/L	95	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.03	0.03			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.967	mg/L	97	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.03	0.03			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.954	mg/L	95	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530856													
WG530856ICV	ICV	11/02/21 18:14	WI211027-5	.3		.3198	mg/L	107	90	110			
WG530856ICB	ICB	11/02/21 18:15				U	mg/L		-0.003	0.003			
WG530779LRB	LRB	11/02/21 18:16				U	mg/L		-0.003	0.003			
WG530779LFB	LFB	11/02/21 18:17	WI211026-4	.2		.2683	mg/L	134	90	110			LA
WG530856CCV1	CCV	11/02/21 18:25	WI211027-4	.25		.2655	mg/L	106	90	110			
WG530856CCB1	CCB	11/02/21 18:26				U	mg/L		-0.003	0.003			
L69439-03DUP	DUP	11/02/21 18:31			U	U	mg/L				0	20	RA
L69439-04LFM	LFM	11/02/21 18:32	WI211026-4	.2	U	.2023	mg/L	101	90	110			
WG530856CCV2	CCV	11/02/21 18:35	WI211027-4	.25		.2691	mg/L	108	90	110			
WG530856CCB2	CCB	11/02/21 18:36				U	mg/L		-0.003	0.003			
WG530856ICV1	ICV	11/03/21 12:31	WI211027-5	.3		.3045	mg/L	102	90	110			
WG530856ICB1	ICB	11/03/21 12:32				U	mg/L		-0.003	0.003			
WG530856CCV4	CCV	11/03/21 12:38	WI211027-4	.25		.2487	mg/L	99	90	110			
WG530856CCB4	CCB	11/03/21 12:39				U	mg/L		-0.003	0.003			
WG530856CCV5	CCV	11/03/21 12:46	WI211027-4	.25		.2518	mg/L	101	90	110			
WG530856CCB5	CCB	11/03/21 12:47				U	mg/L		-0.003	0.003			
WG530856CCV6	CCV	11/03/21 12:51	WI211027-4	.25		.2484	mg/L	99	90	110			
WG530856CCB6	CCB	11/03/21 12:52				U	mg/L		-0.003	0.003			
WG531068													
WG531068ICV	ICV	11/04/21 17:19	WI211027-5	.3		.3034	mg/L	101	90	110			
WG531068ICB	ICB	11/04/21 17:20				U	mg/L		-0.003	0.003			
WG531018LRB	LRB	11/04/21 17:21				U	mg/L		-0.003	0.003			
WG531018LFB	LFB	11/04/21 17:22	WI211026-4	.2		.2045	mg/L	102	90	110			
L69488-01DUP	DUP	11/04/21 17:25			U	U	mg/L				0	20	RA
WG531068CCV1	CCV	11/04/21 17:29	WI211027-4	.25		.2506	mg/L	100	90	110			
WG531068CCB1	CCB	11/04/21 17:30				U	mg/L		-0.003	0.003			
L69517-01LFM	LFM	11/04/21 17:32	WI211026-4	.2	U	.1834	mg/L	92	90	110			
WG531068CCV2	CCV	11/04/21 17:39	WI211027-4	.25		.2484	mg/L	99	90	110			
WG531068CCB2	CCB	11/04/21 17:40				U	mg/L		-0.003	0.003			
WG531068CCV3	CCV	11/04/21 17:51	WI211027-4	.25		.2468	mg/L	99	90	110			
WG531068CCB3	CCB	11/04/21 17:52				U	mg/L		-0.003	0.003			
WG531068CCV4	CCV	11/04/21 18:00	WI211027-4	.25		.2474	mg/L	99	90	110			
WG531068CCB4	CCB	11/04/21 18:01				U	mg/L		-0.003	0.003			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531305													
WG531305ICV	ICV	11/09/21 14:07	WC211030-1	2.002		2.08	mg/L	104	90	110			
WG531305ICB	ICB	11/09/21 14:11				U	mg/L		-0.3	0.3			
WG531305PQV	PQV	11/09/21 14:16	WC211011-2	.3514		.33	mg/L	94	70	130			
WG531305LFB1	LFB	11/09/21 14:19	WC210803-9	5.02		5.07	mg/L	101	90	110			
L41361-207AS	AS	11/09/21 14:31	WC210803-9	5.02	U	5.21	mg/L	104	90	110			
L41361-207ASD	ASD	11/09/21 14:35	WC210803-9	5.02	U	5.14	mg/L	102	90	110	1	20	
WG531305CCV1	CCV	11/09/21 15:21	WC211030-1	2.002		2.14	mg/L	107	90	110			
WG531305CCB1	CCB	11/09/21 15:29				U	mg/L		-0.3	0.3			
L69450-03AS	AS	11/09/21 15:45	WC210803-9	5.02	.37	5.8	mg/L	108	90	110			
L69450-03ASD	ASD	11/09/21 15:49	WC210803-9	5.02	.37	5.59	mg/L	104	90	110	4	20	
WG531305CCV2	CCV	11/09/21 17:24	WC211030-1	2.002		1.91	mg/L	95	90	110			
WG531305CCB2	CCB	11/09/21 17:30				U	mg/L		-0.3	0.3			
WG531305LFB2	LFB	11/09/21 18:10	WC210803-9	5.02		5.02	mg/L	100	90	110			
WG531305CCV3	CCV	11/09/21 18:46	WC211030-1	2.002		2.12	mg/L	106	90	110			
WG531305CCB3	CCB	11/09/21 18:53				U	mg/L		-0.3	0.3			
WG531305CCV4	CCV	11/09/21 20:09	WC211030-1	2.002		2.14	mg/L	107	90	110			
WG531305CCB4	CCB	11/09/21 20:18				U	mg/L		-0.3	0.3			
WG531305CCV5	CCV	11/09/21 21:19	WC211030-1	2.002		2.15	mg/L	107	90	110			
WG531305CCB5	CCB	11/09/21 21:27				U	mg/L		-0.3	0.3			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.95	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.18	0.18			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.150015		.143	mg/L	95	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	200.170015		191.5	mg/L	96	1	200			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	1.0001		1.011	mg/L	101	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	1.0001	U	.994	mg/L	99	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	1.0001	U	1.004	mg/L	100	85	115	1	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.962	mg/L	96	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.18	0.18			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.975	mg/L	98	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.18	0.18			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.973	mg/L	97	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.18	0.18			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.941	mg/L	97	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.18	0.18			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.150015		.154	mg/L	103	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	200.170015		188	mg/L	94	1	200			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.132	0.132			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	1.0001		1.046	mg/L	105	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	1.0001	U	1.048	mg/L	105	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	1.0001	U	1.052	mg/L	105	70	130	0	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.976	mg/L	98	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.18	0.18			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.994	mg/L	99	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.18	0.18			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.983	mg/L	98	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.18	0.18			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531484													
WG531484ICV	ICV	11/11/21 9:37	MS211013-2	.05		.05342	mg/L	107	90	110			
WG531484ICB	ICB	11/11/21 9:39				.00011	mg/L		-0.00022	0.00022			
WG531484LFB	LFB	11/11/21 9:41	MS210927-3	.05005		.04828	mg/L	96	85	115			
L69450-03AS	AS	11/11/21 9:53	MS210927-3	.05005	U	.04929	mg/L	98	70	130			
L69450-03ASD	ASD	11/11/21 9:55	MS210927-3	.05005	U	.04866	mg/L	97	70	130	1	20	
WG531484CCV1	CCV	11/11/21 9:59	MS211109-2	.25025		.24542	mg/L	98	90	110			
WG531484CCB1	CCB	11/11/21 10:01				.00019	mg/L		-0.0003	0.0003			
WG531484CCV2	CCV	11/11/21 10:21	MS211109-2	.25025		.24662	mg/L	99	90	110			
WG531484CCB2	CCB	11/11/21 10:23				.00018	mg/L		-0.0003	0.0003			
WG531484CCV3	CCV	11/11/21 10:34	MS211109-2	.25025		.2366	mg/L	95	90	110			
WG531484CCB3	CCB	11/11/21 10:35				.00012	mg/L		-0.0003	0.0003			

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.05		.05221	mg/L	104	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0003	0.0003			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00022	0.00022			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05005		.05104	mg/L	102	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05005	.0016	.05373	mg/L	104	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.25025		.25441	mg/L	102	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0003	0.0003			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05005	.0016	.05428	mg/L	105	70	130	1	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.25025		.25419	mg/L	102	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0003	0.0003			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.25025		.25272	mg/L	101	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0003	0.0003			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.25025		.25076	mg/L	100	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	100		95.12	mg/L	95	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.6	0.6			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	1.0001		1	mg/L	100	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	201.0201		201.9	mg/L	100	1	200			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	49.99847		49.55	mg/L	99	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	49.99847	51.3	98.47	mg/L	94	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	49.99847	51.3	98.7	mg/L	95	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	50		46.31	mg/L	93	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.6	0.6			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	50		45.85	mg/L	92	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.6	0.6			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	50		46.02	mg/L	92	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.6	0.6			

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.924	mg/L	96	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.03	0.03			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.05005		.048	mg/L	96	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	50.10005		47.24	mg/L	94	1	200			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	.499		.498	mg/L	100	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	.499	U	.489	mg/L	98	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	.499	U	.494	mg/L	99	85	115	1	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		.947	mg/L	95	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.03	0.03			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		.949	mg/L	95	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.03	0.03			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		.946	mg/L	95	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.03	0.03			

Manganese, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.926	mg/L	96	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.03	0.03			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.05005		.051	mg/L	102	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	50.10005		46.92	mg/L	94	1	200			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.022	0.022			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	.5005		.522	mg/L	104	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	.5005	U	.523	mg/L	104	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	.5005	U	.522	mg/L	104	70	130	0	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.949	mg/L	95	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.03	0.03			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.956	mg/L	96	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.03	0.03			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.952	mg/L	95	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530504													
WG530504ICV	ICV	10/29/21 7:19	HG211004-3	.00501		.00491	mg/L	98	90	110			
WG530504ICB	ICB	10/29/21 7:20				U	mg/L		-0.0006	0.0006			
WG530506													
WG530506CCV1	CCV	10/29/21 7:29	HG211004-3	.00501		.00478	mg/L	95	90	110			
WG530506CCB1	CCB	10/29/21 7:30				U	mg/L		-0.0002	0.0002			
WG530506PQV	PQV	10/29/21 7:31	HG211015-2	.001001		.00086	mg/L	86	70	130			
WG530506LRB	LRB	10/29/21 7:32				U	mg/L		-0.00044	0.00044			
WG530506LFB	LFB	10/29/21 7:33	HG211015-3	.002002		.00191	mg/L	95	85	115			
L69446-08LFM	LFM	10/29/21 7:37	HG211015-3	.002002	U	.00193	mg/L	96	85	115			
L69446-08LFMD	LFMD	10/29/21 7:38	HG211015-3	.002002	U	.00189	mg/L	94	85	115	2	20	
WG530506CCV2	CCV	10/29/21 7:41	HG211004-3	.00501		.0049	mg/L	98	90	110			
WG530506CCB2	CCB	10/29/21 7:42				U	mg/L		-0.0002	0.0002			
WG530506CCV3	CCV	10/29/21 7:52	HG211004-3	.00501		.00485	mg/L	97	90	110			
WG530506CCB3	CCB	10/29/21 7:53				U	mg/L		-0.0002	0.0002			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530504													
WG530504ICV	ICV	10/29/21 7:19	HG211004-3	.00501		.00491	mg/L	98	90	110			
WG530504ICB	ICB	10/29/21 7:20				U	mg/L		-0.0006	0.0006			
WG530508													
WG530508CCV1	CCV	10/29/21 8:13	HG211004-3	.00501		.00489	mg/L	98	90	110			
WG530508CCB1	CCB	10/29/21 8:14				U	mg/L		-0.0002	0.0002			
WG530508PQV	PQV	10/29/21 8:15	HG211015-2	.001001		.0009	mg/L	90	70	130			
WG530508LRB	LRB	10/29/21 8:16				U	mg/L		-0.00044	0.00044			
WG530508LFB	LFB	10/29/21 8:17	HG211015-3	.002002		.00186	mg/L	93	85	115			
L69297-07LFM	LFM	10/29/21 8:22	HG211015-3	.002002	U	.00187	mg/L	93	85	115			
L69297-07LFMD	LFMD	10/29/21 8:23	HG211015-3	.002002	U	.00182	mg/L	91	85	115	3	20	
WG530508CCV2	CCV	10/29/21 8:24	HG211004-3	.00501		.00485	mg/L	97	90	110			
WG530508CCB2	CCB	10/29/21 8:25				U	mg/L		-0.0002	0.0002			
WG530508CCV3	CCV	10/29/21 8:36	HG211004-3	.00501		.00497	mg/L	99	90	110			
WG530508CCB3	CCB	10/29/21 8:37				U	mg/L		-0.0002	0.0002			
L69488-03LFM	LFM	10/29/21 8:40	HG211015-3	.002002	U	.00181	mg/L	90	85	115			
L69488-03LFMD	LFMD	10/29/21 8:40	HG211015-3	.002002	U	.00176	mg/L	88	85	115	3	20	
WG530508CCV4	CCV	10/29/21 8:44	HG211004-3	.00501		.00481	mg/L	96	90	110			
WG530508CCB4	CCB	10/29/21 8:45				U	mg/L		-0.0002	0.0002			
WG530987													
WG530987ICV	ICV	11/04/21 13:00	HG211004-3	.00501		.00517	mg/L	103	90	110			
WG530987ICB	ICB	11/04/21 13:00				U	mg/L		-0.0006	0.0006			
WG530988													
WG530988CCV1	CCV	11/04/21 13:20	HG211004-3	.00501		.00537	mg/L	107	90	110			
WG530988CCB1	CCB	11/04/21 13:21				U	mg/L		-0.0002	0.0002			
WG530988PQV	PQV	11/04/21 13:22	HG211101-3	.001001		.00093	mg/L	93	70	130			
WG530988LRB	LRB	11/04/21 13:23				U	mg/L		-0.00044	0.00044			
WG530988LFB	LFB	11/04/21 13:24	HG211101-4	.002002		.00194	mg/L	97	85	115			
WG530988CCV2	CCV	11/04/21 13:31	HG211004-3	.00501		.00537	mg/L	107	90	110			
WG530988CCB2	CCB	11/04/21 13:32				U	mg/L		-0.0002	0.0002			
L69471-01LFM	LFM	11/04/21 13:34	HG211101-4	.002002	U	.00192	mg/L	96	85	115			
L69471-01LFMD	LFMD	11/04/21 13:35	HG211101-4	.002002	U	.00188	mg/L	94	85	115	2	20	
WG530988CCV3	CCV	11/04/21 13:43	HG211004-3	.00501		.00538	mg/L	107	90	110			
WG530988CCB3	CCB	11/04/21 13:44				U	mg/L		-0.0002	0.0002			
WG530988CCV4	CCV	11/04/21 13:51	HG211004-3	.00501		.00536	mg/L	107	90	110			
WG530988CCB4	CCB	11/04/21 13:52				U	mg/L		-0.0002	0.0002			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.01992		.02088	mg/L	105	90	110			
WG531353ICB	ICB	11/09/21 18:39				U	mg/L		-0.00044	0.00044			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.05005		.04898	mg/L	98	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.05005	.0141	.06744	mg/L	107	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.05005	.0141	.06785	mg/L	107	70	130	1	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.1001		.09802	mg/L	98	90	110			
WG531353CCB1	CCB	11/09/21 19:00				U	mg/L		-0.0006	0.0006			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.1001		.09944	mg/L	99	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0006	0.0006			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.1001		.09738	mg/L	97	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0006	0.0006			

Molybdenum, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.01992		.02087	mg/L	105	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0006	0.0006			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00044	0.00044			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05005		.05075	mg/L	101	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05005	.154	.20505	mg/L	102	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.1001		.09767	mg/L	98	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0006	0.0006			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05005	.154	.20858	mg/L	109	70	130	2	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.1001		.09819	mg/L	98	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0006	0.0006			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.1001		.0962	mg/L	96	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0006	0.0006			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.1001		.09794	mg/L	98	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0006	0.0006			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531664													
WG531664ICV	ICV	11/13/21 23:03	WI210904-1	2.4161		2.349	mg/L	97	90	110			
WG531664ICB	ICB	11/13/21 23:04				U	mg/L		-0.02	0.02			
WG531664LFB	LFB	11/13/21 23:08	WI211001-5	2		1.972	mg/L	99	90	110			
L69442-01AS	AS	11/13/21 23:10	WI211001-5	2	.716	2.678	mg/L	98	90	110			
L69443-01DUP	DUP	11/13/21 23:13			U	U	mg/L				0	20	RA
WG531664CCV1	CCV	11/13/21 23:18	WI211113-1	2		2.033	mg/L	102	90	110			
WG531664CCB1	CCB	11/13/21 23:21				U	mg/L		-0.02	0.02			
WG531664CCV2	CCV	11/13/21 23:35	WI211113-1	2		2.005	mg/L	100	90	110			
WG531664CCB2	CCB	11/13/21 23:38				U	mg/L		-0.02	0.02			
WG531664CCV3	CCV	11/13/21 23:52	WI211113-1	2		1.932	mg/L	97	90	110			
WG531664CCB3	CCB	11/13/21 23:55				U	mg/L		-0.02	0.02			
WG531664CCV4	CCV	11/14/21 0:01	WI211113-1	2		1.942	mg/L	97	90	110			
WG531664CCB4	CCB	11/14/21 0:04				U	mg/L		-0.02	0.02			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531168													
WG531168ICV	ICV	11/07/21 17:34	WI211018-4	.65228		.688	mg/L	105	90	110			
WG531168ICB	ICB	11/07/21 17:37				U	mg/L		-0.01	0.01			
WG531035LRB	LRB	11/07/21 17:38				U	mg/L		-0.01	0.01			
WG531035LFB	LFB	11/07/21 17:39	WI211030-2	.5		.511	mg/L	102	90	110			
L69450-02DUP	DUP	11/07/21 17:43			.014	.015	mg/L				7	20	RA
WG531168CCV1	CCV	11/07/21 17:49	WI211018-2	.5		.5	mg/L	100	90	110			
WG531168CCB1	CCB	11/07/21 17:50				U	mg/L		-0.01	0.01			
WG531168CCV2	CCV	11/07/21 18:02	WI211018-2	.5		.496	mg/L	99	90	110			
WG531168CCB2	CCB	11/07/21 18:03				U	mg/L		-0.01	0.01			
L69450-01LFM	LFM	11/07/21 18:11	WI211030-2	.5	1.44	1.951	mg/L	102	90	110			
WG531168CCV3	CCV	11/07/21 18:13	WI211018-2	.5		.5	mg/L	100	90	110			
WG531168CCB3	CCB	11/07/21 18:15				U	mg/L		-0.01	0.01			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	20		19.54	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.6	0.6			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.9958		1.07	mg/L	107	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	.9958		1.05	mg/L	105	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	99.96008		101.8	mg/L	102	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	99.96008	4.45	105	mg/L	101	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	99.96008	4.45	105.9	mg/L	101	85	115	1	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	10		9.46	mg/L	95	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.6	0.6			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	10		9.42	mg/L	94	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.6	0.6			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	10		9.36	mg/L	94	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.6	0.6			

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530238													
WG530238PBW	PBW	10/25/21 15:05				U	mg/L		-20	20			
WG530238LCSW	LCSW	10/25/21 15:07	PCN64127	1000		968	mg/L	97	80	120			
L69450-02DUP	DUP	10/25/21 16:05			496	496	mg/L				0	10	
WG530483													
WG530483PBW	PBW	10/28/21 10:30				U	mg/L		-20	20			
WG530483LCSW	LCSW	10/28/21 10:32	PCN63840	1000		976	mg/L	98	80	120			
L69450-03DUP	DUP	10/28/21 11:24			620	634	mg/L				2	10	

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530212													
WG530212PBW	PBW	10/25/21 11:19				U	mg/L		-5	5			
WG530212LCSW	LCSW	10/25/21 11:21	PCN64127	100		94	mg/L	94	80	120			
L69450-03DUP	DUP	10/25/21 12:19			U	U	mg/L				0	10	RA

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.05		.05348	mg/L	107	90	110			
WG531353ICB	ICB	11/09/21 18:39				.00018	mg/L		-0.00022	0.00022			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.05		.04935	mg/L	99	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.05	.00062	.05864	mg/L	116	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.05	.00062	.05839	mg/L	116	70	130	0	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.25		.24461	mg/L	98	90	110			
WG531353CCB1	CCB	11/09/21 19:00				.00014	mg/L		-0.0003	0.0003			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.25		.24853	mg/L	99	90	110			
WG531353CCB2	CCB	11/09/21 19:22				.00021	mg/L		-0.0003	0.0003			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.25		.24258	mg/L	97	90	110			
WG531353CCB3	CCB	11/09/21 19:35				.00019	mg/L		-0.0003	0.0003			

Selenium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.05		.04979	mg/L	100	90	110			
WG531232ICB	ICB	11/08/21 17:15				.00013	mg/L		-0.0003	0.0003			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00022	0.00022			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05		.04785	mg/L	96	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05	.00019	.05396	mg/L	108	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.25		.26602	mg/L	106	90	110			
WG531232CCB1	CCB	11/08/21 17:32				.00012	mg/L		-0.0003	0.0003			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05	.00019	.05357	mg/L	107	70	130	1	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.25		.26533	mg/L	106	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0003	0.0003			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.25		.26578	mg/L	106	90	110			
WG531232CCB3	CCB	11/08/21 18:09				.0001	mg/L		-0.0003	0.0003			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.25		.26213	mg/L	105	90	110			
WG531232CCB4	CCB	11/08/21 18:14				.00012	mg/L		-0.0003	0.0003			

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.02		.02104	mg/L	105	90	110			
WG531353ICB	ICB	11/09/21 18:39				U	mg/L		-0.00022	0.00022			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.01		.00962	mg/L	96	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.01	U	.00923	mg/L	92	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.01	U	.0091	mg/L	91	70	130	1	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.02505		.02534	mg/L	101	90	110			
WG531353CCB1	CCB	11/09/21 19:00				U	mg/L		-0.0003	0.0003			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.02505		.02551	mg/L	102	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0003	0.0003			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.02505		.02524	mg/L	101	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.02		.02022	mg/L	101	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0003	0.0003			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00022	0.00022			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.01		.0095	mg/L	95	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.01	U	.009	mg/L	90	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.02505		.0245	mg/L	98	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0003	0.0003			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.01	U	.00914	mg/L	91	70	130	2	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.02505		.0243	mg/L	97	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0003	0.0003			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.02505		.02394	mg/L	96	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0003	0.0003			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.02505		.02426	mg/L	97	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0003	0.0003			

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	100		98.22	mg/L	98	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.6	0.6			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	1.0053		1.01	mg/L	100	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	1.0053		1.07	mg/L	106	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	100.0086		102.2	mg/L	102	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	100.0086	40.9	140.9	mg/L	100	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	100.0086	40.9	141.2	mg/L	100	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	50		47.61	mg/L	95	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.6	0.6			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	50		47.28	mg/L	95	90	110			
WG531292CCB2	CCB	11/10/21 2:06				U	mg/L		-0.6	0.6			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	50		47.14	mg/L	94	90	110			
WG531292CCB3	CCB	11/10/21 2:28				U	mg/L		-0.6	0.6			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531681													
WG531681ICV	ICV	11/15/21 9:55	WI211111-2	20		20.3	mg/L	102	90	110			
WG531681ICB	ICB	11/15/21 9:55				U	mg/L		-3	3			
WG531681CCV1	CCV	11/15/21 10:15	WI211111-1	25		25.7	mg/L	103	90	110			
WG531681CCB1	CCB	11/15/21 10:15				U	mg/L		-3	3			
WG531681LFB	LFB	11/15/21 10:15	WI210105-3	10		9.7	mg/L	97	90	110			
L69443-01AS	AS	11/15/21 10:15	WI210105-3	10	U	10.3	mg/L	103	90	110			
WG531681CCV2	CCV	11/15/21 10:17	WI211111-1	25		25.5	mg/L	102	90	110			
WG531681CCB2	CCB	11/15/21 10:17				U	mg/L		-3	3			
WG531681CCV3	CCV	11/15/21 10:18	WI211111-1	25		25.3	mg/L	101	90	110			
WG531681CCB3	CCB	11/15/21 10:18				U	mg/L		-3	3			
WG531681CCV4	CCV	11/15/21 10:20	WI211111-1	25		25.2	mg/L	101	90	110			
WG531681CCB4	CCB	11/15/21 10:20				U	mg/L		-3	3			
L69442-01DUP	DUP	11/15/21 10:22			185	184.8	mg/L				0	20	
WG531681CCV5	CCV	11/15/21 10:23	WI211111-1	25		25.6	mg/L	102	90	110			
WG531681CCB5	CCB	11/15/21 10:23				U	mg/L		-3	3			
WG531681CCV6	CCV	11/15/21 10:27	WI211111-1	25		25	mg/L	100	90	110			
WG531681CCB6	CCB	11/15/21 10:27				U	mg/L		-3	3			
WG531681CCV7	CCV	11/15/21 10:45	WI211111-1	25		25.5	mg/L	102	90	110			
WG531681CCB7	CCB	11/15/21 10:45				U	mg/L		-3	3			
WG531681CCV8	CCV	11/15/21 10:48	WI211111-1	25		25.3	mg/L	101	90	110			
WG531681CCB8	CCB	11/15/21 10:48				U	mg/L		-3	3			
WG531681CCV9	CCV	11/15/21 10:57	WI211111-1	25		25.4	mg/L	102	90	110			
WG531681CCB9	CCB	11/15/21 10:57				U	mg/L		-3	3			
WG531681CCV10	CCV	11/15/21 10:57	WI211111-1	25		25.1	mg/L	100	90	110			
WG531681CCB10	CCB	11/15/21 10:57				U	mg/L		-3	3			

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.05		.05483	mg/L	110	90	110			
WG531353ICB	ICB	11/09/21 18:39				U	mg/L		-0.00022	0.00022			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.05		.04983	mg/L	100	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.05	U	.05235	mg/L	105	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.05	U	.05246	mg/L	105	70	130	0	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.1		.09725	mg/L	97	90	110			
WG531353CCB1	CCB	11/09/21 19:00				U	mg/L		-0.0003	0.0003			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.1		.09699	mg/L	97	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0003	0.0003			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.1		.09621	mg/L	96	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.05		.05338	mg/L	107	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0003	0.0003			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00022	0.00022			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05		.04882	mg/L	98	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05	.001	.05118	mg/L	100	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.1		.10072	mg/L	101	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0003	0.0003			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05	.001	.05226	mg/L	103	70	130	2	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.1		.10139	mg/L	101	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0003	0.0003			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.1		.09945	mg/L	99	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0003	0.0003			
WG531232CCV4	CCV	11/08/21 18:13	MS211028-2	.1		.09752	mg/L	98	90	110			
WG531232CCB4	CCB	11/08/21 18:14				U	mg/L		-0.0003	0.0003			

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531353													
WG531353ICV	ICV	11/09/21 18:37	MS211013-2	.05		.05363	mg/L	107	90	110			
WG531353ICB	ICB	11/09/21 18:39				U	mg/L		-0.00022	0.00022			
WG531353LFB	LFB	11/09/21 18:40	MS210927-3	.05		.0499	mg/L	100	85	115			
L69450-02AS	AS	11/09/21 18:51	MS210927-3	.05	.112	.16914	mg/L	114	70	130			
L69450-02ASD	ASD	11/09/21 18:53	MS210927-3	.05	.112	.16609	mg/L	108	70	130	2	20	
WG531353CCV1	CCV	11/09/21 18:58	MS211028-2	.1		.09626	mg/L	96	90	110			
WG531353CCB1	CCB	11/09/21 19:00				.00028	mg/L		-0.0003	0.0003			
WG531353CCV2	CCV	11/09/21 19:20	MS211028-2	.1		.09599	mg/L	96	90	110			
WG531353CCB2	CCB	11/09/21 19:22				U	mg/L		-0.0003	0.0003			
WG531353CCV3	CCV	11/09/21 19:33	MS211028-2	.1		.09485	mg/L	95	90	110			
WG531353CCB3	CCB	11/09/21 19:35				U	mg/L		-0.0003	0.0003			
WG531484													
WG531484ICV	ICV	11/11/21 9:37	MS211013-2	.05		.05389	mg/L	108	90	110			
WG531484ICB	ICB	11/11/21 9:39				U	mg/L		-0.00022	0.00022			
WG531484LFB	LFB	11/11/21 9:41	MS210927-3	.05		.04858	mg/L	97	85	115			
L69450-03AS	AS	11/11/21 9:53	MS210927-3	.05	1.19	1.20898	mg/L	38	70	130			M3
L69450-03ASD	ASD	11/11/21 9:55	MS210927-3	.05	1.19	1.20805	mg/L	36	70	130	0	20	M3
WG531484CCV1	CCV	11/11/21 9:59	MS211109-2	.1		.10064	mg/L	101	90	110			
WG531484CCB1	CCB	11/11/21 10:01				.00148	mg/L		-0.0003	0.0003			BB
WG531484CCV2	CCV	11/11/21 10:21	MS211109-2	.1		.10051	mg/L	101	90	110			
WG531484CCB2	CCB	11/11/21 10:23				U	mg/L		-0.0003	0.0003			
WG531484CCV3	CCV	11/11/21 10:34	MS211109-2	.1		.09519	mg/L	95	90	110			
WG531484CCB3	CCB	11/11/21 10:35				U	mg/L		-0.0003	0.0003			

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ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531232													
WG531232ICV	ICV	11/08/21 17:14	MS211013-2	.05		.05229	mg/L	105	90	110			
WG531232ICB	ICB	11/08/21 17:15				U	mg/L		-0.0003	0.0003			
WG531084LRB	LRB	11/08/21 17:17				U	mg/L		-0.00022	0.00022			
WG531084LFB	LFB	11/08/21 17:19	MS210927-3	.05		.05093	mg/L	102	85	115			
L69489-01LFM	LFM	11/08/21 17:29	MS210927-3	.05	.0641	.11776	mg/L	107	70	130			
WG531232CCV1	CCV	11/08/21 17:31	MS211028-2	.1		.10575	mg/L	106	90	110			
WG531232CCB1	CCB	11/08/21 17:32				U	mg/L		-0.0003	0.0003			
L69489-01LFMD	LFMD	11/08/21 17:34	MS210927-3	.05	.0641	.11823	mg/L	108	70	130	0	20	
WG531232CCV2	CCV	11/08/21 17:51	MS211028-2	.1		.10404	mg/L	104	90	110			
WG531232CCB2	CCB	11/08/21 17:53				U	mg/L		-0.0003	0.0003			
WG531232CCV3	CCV	11/08/21 18:08	MS211028-2	.1		.10474	mg/L	105	90	110			
WG531232CCB3	CCB	11/08/21 18:09				U	mg/L		-0.0003	0.0003			

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531292													
WG531292ICV	ICV	11/10/21 0:33	II211104-7	2		1.902	mg/L	95	95	105			
WG531292ICB	ICB	11/10/21 0:39				U	mg/L		-0.06	0.06			
WG531292PQV	PQV	11/10/21 0:42	II211104-2	.05015		.05	mg/L	100	70	130			
WG531292SIC	SIC	11/10/21 0:46	II211027-2	.1003		.094	mg/L	94	80	120			
WG531292LFB	LFB	11/10/21 0:52	II211104-5	.50045		.51	mg/L	102	85	115			
L69450-03AS	AS	11/10/21 1:05	II211104-5	.50045	U	.498	mg/L	100	85	115			
L69450-03ASD	ASD	11/10/21 1:08	II211104-5	.50045	U	.5	mg/L	100	85	115	0	20	
WG531292CCV1	CCV	11/10/21 1:24	II211104-8	1		1	mg/L	100	90	110			
WG531292CCB1	CCB	11/10/21 1:28				U	mg/L		-0.06	0.06			
WG531292CCV2	CCV	11/10/21 2:03	II211104-8	1		1.064	mg/L	106	90	110			
WG531292CCB2	CCB	11/10/21 2:06				.04	mg/L		-0.06	0.06			
WG531292CCV3	CCV	11/10/21 2:25	II211104-8	1		1.046	mg/L	105	90	110			
WG531292CCB3	CCB	11/10/21 2:28				.038	mg/L		-0.06	0.06			

Zinc, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530713													
WG530713ICV	ICV	11/02/21 12:44	II211013-1	2		1.914	mg/L	96	95	105			
WG530713ICB	ICB	11/02/21 12:50				U	mg/L		-0.06	0.06			
WG530713PQV	PQV	11/02/21 12:53	II211003-2	.05015		.055	mg/L	110	70	130			
WG530713SIC	SIC	11/02/21 12:56	II210927-1	.1003		.109	mg/L	109	80	120			
WG530662LRB	LRB	11/02/21 13:02				U	mg/L		-0.044	0.044			
WG530662LFB	LFB	11/02/21 13:05	II211024-2	.50045		.525	mg/L	105	85	115			
L69443-01LFM	LFM	11/02/21 13:24	II211024-2	.50045	U	.528	mg/L	106	70	130			
L69443-01LFMD	LFMD	11/02/21 13:27	II211024-2	.50045	U	.529	mg/L	106	70	130	0	20	
WG530713CCV1	CCV	11/02/21 13:33	II211024-3	1		.917	mg/L	92	90	110			
WG530713CCB1	CCB	11/02/21 13:36				U	mg/L		-0.06	0.06			
WG530713CCV2	CCV	11/02/21 14:10	II211024-3	1		.945	mg/L	95	90	110			
WG530713CCB2	CCB	11/02/21 14:13				U	mg/L		-0.06	0.06			
WG530713CCV3	CCV	11/02/21 14:34	II211024-3	1		.925	mg/L	93	90	110			
WG530713CCB3	CCB	11/02/21 14:37				U	mg/L		-0.06	0.06			

Ensero Solutions

ACZ Project ID: **L69450**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69450-01	WG531787	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530856	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM4500-CN I,E-Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531484	Lead, dissolved	M200.8 ICP-MS	D2	Sample required dilution. Target analyte exceeded calibration range.
	WG531664	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531168	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530212	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG531484	Uranium, dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
			M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L69450-02	WG531787	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531068	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531664	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531168	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530212	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG531484	Uranium, dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
			M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Ensero SolutionsACZ Project ID: **L69450**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69450-03	WG531787	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530856	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531664	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG531168	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG530212	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Ensero Solutions

Project ID: 3100-PO205

Sample ID: RAW FEED

Locator:

ACZ Sample ID: **L69450-01**

Date Sampled: 10/19/21 10:00

Date Received: 10/22/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	01/11/22 15:20		93			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/18/21 0:04		19000	350	41	pCi/L	*	mhm
Gross Beta	11/18/21 0:04		6700	100	22	pCi/L		mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/29/21 0:02		28	0.9	1.1	pCi/L	*	ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	01/10/22 0:02		93	1.1	0.25	pCi/L	*	ess

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	11/16/21 12:24		0.1	0.8	1.9	pCi/L	*	slc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-ARH

Locator:

ACZ Sample ID: **L69450-02**

Date Sampled: 10/21/21 11:10

Date Received: 10/22/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	01/11/22 15:20		0.87			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/18/21 0:05		68	9.6	7.3	pCi/L	*	mhm
Gross Beta	11/18/21 0:05		39	5.2	11	pCi/L		mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/29/21 0:05		0.93	0.22	0.78	pCi/L	*	ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	01/10/22 0:04		0.87	0.12	0.27	pCi/L	*	ess

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	11/16/21 12:24		0.44	0.87	2	pCi/L	*	slc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-19

Locator:

ACZ Sample ID: **L69450-03**

Date Sampled: 10/21/21 13:04

Date Received: 10/22/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	01/11/22 15:20		0			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	11/18/21 0:07		740	33	15	pCi/L	*	mhm
Gross Beta	11/18/21 0:07		350	13	14	pCi/L		mhm

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	12/29/21 0:07		0.43	0.17	0.89	pCi/L	*	ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	01/10/22 0:07		0.69	0.15	1	pCi/L	*	ess

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	11/16/21 12:24		0.52	0.75	1.8	pCi/L	*	slc

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG531450																
WG531450PBW	PBW	11/18/21						-65	0.49	12			24			
WG531450LCSWA	LCSW	11/18/21	PCN64375	100				120	9.3	12	120	67	144			
L69489-05MSA	MS	11/18/21	PCN64375	106.38	20	6.6	31	68	12	18	45	67	144			M2
L69489-07DUP	DUP-RPD	11/18/21			36	9	22	38	9.5	11				5	20	
L69489-10DUP	DUP-RPD	11/18/21			2700	490	1300	2600	480	1400				4	20	

Beta		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG531450																
WG531450PBW	PBW	11/18/21						-1.8	2.9	20			40			
WG531450LCSWB	LCSW	11/18/21	RC210621-11	49.9				48	5	7.6	96	82	122			
L69489-06MSB	MS	11/18/21	RC210621-11	49.9	11	3.6	6.4	68	6.3	11	114	82	122			
L69489-07DUP	DUP-RPD	11/18/21			27	4.9	16	32	5.1	13				17	20	
L69489-10DUP	DUP-RPD	11/18/21			2600	290	1100	2700	290	1200				4	20	

Radium 226, dissolved		M903.1										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG532935																
WG532935LCSW	LCSW	12/29/21	PCN64374	20				19	0.8	1.1	95	43	148			
WG532935PBW	PBW	12/29/21						-.16	0.24	1.8			3.6			
L69450-01DUP	DUP-RPD	12/29/21			28	0.9	1.1	41	1.2	1.1				38	20	N1
L69829-02MS	MS	12/29/21	PCN64374	20	-0.01	0.12	0.74	16	0.71	0.94	80	43	148			
L69986-01DUP	DUP-RPD	12/29/21			0.04	0.13	0.91	.09	0.11	0.98				77	20	RG
L69986-01DUP	DUP-RER	12/29/21			0.04	0.13	0.91	.09	0.11	0.98				0.29	2	

ENSERO

ACZ Project ID: **L69450**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Radium 226, total

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG532934																
WG532934LCSW	LCSW	01/10/22	PCN64374	20				21	0.53	0.47	105	43	148			
WG532934PBW	PBW	01/10/22						.01	0.06	0.36			0.72			
L69450-02DUP	DUP-RER	01/10/22			0.87	0.12	0.27	1.2	0.18	0.67				1.52	2	
L69450-02DUP	DUP-RPD	01/10/22			0.87	0.12	0.27	1.2	0.18	0.67				32	20	RG
L69450-03MS	MS	01/10/22	PCN64374	20	0.69	0.15	1	21	0.48	0.29	102	43	148			
L69809-02DUP	DUP-RPD	01/10/22			4.2	0.22	0.37	5.1	0.29	0.46				19	20	

Radium 228, total

M904.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG531415																
WG531415LCSW	LCSW	11/16/21	PCN63356	9.26				10	1.2	0.78	108	47	123			
WG531415PBW	PBW	11/16/21						-25	0.37	0.4			0.8			
L69450-02DUP	DUP-RER	11/16/21			0.44	0.87	2	-33	0.93	2.2				0.6	2	
L69458-01MS	MS	11/16/21	PCN63356	9.26	0.42	0.82	1.8	11	1.2	2	114	47	123			
L69450-02DUP	DUP-RPD	11/16/21			0.44	0.87	2	-33	0.93	2.2				1400	20	RG
L69480-08DUP	DUP-RPD	11/16/21			-0.73	1	2.6	-41	0.83	1.9				56	20	RG
L69480-08DUP	DUP-RER	11/16/21			-0.73	1	2.6	-41	0.83	1.9				0.25	2	

Ensero Solutions

ACZ Project ID: **L69450**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69450-01	WG531450	Gross Alpha	M900.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG532935	Radium 226, dissolved	M903.1	N1	See Case Narrative.
	WG532934	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG531415	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L69450-02	WG531450	Gross Alpha	M900.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG532935	Radium 226, dissolved	M903.1	N1	See Case Narrative.
	WG532934	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG531415	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L69450-03	WG531450	Gross Alpha	M900.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG532935	Radium 226, dissolved	M903.1	N1	See Case Narrative.
	WG532934	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG531415	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Ensero Solutions

ACZ Project ID: **L69450**

No certification qualifiers associated with this analysis

February 08, 2022

Report to:

Christie Brizinski
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

Bill to:

Pauline Wong
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

cc: Ensero/Alexco Importer, Evan Valencia

Project ID: 3100-PO205

ACZ Project ID: L70423

Christie Brizinski:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 10, 2021. This project has been assigned to ACZ's project number, L70423. Please reference this number in all future inquiries.

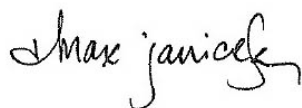
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70423. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after March 10, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and
approved this report.



Ensero Solutions

February 08, 2022

Project ID: 3100-PO205

ACZ Project ID: L70423

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 4 miscellaneous samples from Ensero Solutions on December 10, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L70423. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

Due to an ACZ database error, the original final report for this project omitted some data qualifiers. The report was corrected and the final report was revised and sent to the client on 2/8/2022.

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-NWRP

ACZ Sample ID: **L70423-01**

Date Sampled: 12/08/21 11:35

Date Received: 12/10/21

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								12/20/21 10:47	bls
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								12/22/21 12:22	bls
Total Hot Plate Digestion	M200.2 ICP				*				12/22/21 15:18	kja
Total Hot Plate Digestion	M200.2 ICP-MS								12/20/21 10:48	bsu

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-NWRP

ACZ Sample ID: **L70423-01**

Date Sampled: 12/08/21 11:35

Date Received: 12/10/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	12/29/21 21:08	kja
Aluminum, total	M200.7 ICP	2	<0.1	U		mg/L	0.1	0.5	12/29/21 5:59	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:36	ja/mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/10/22 17:51	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/11/22 13:58	ja/mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/10/22 17:51	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 21:08	kja
Boron, total	M200.7 ICP	2	<0.06	U		mg/L	0.06	0.2	12/29/21 5:59	jlw
Calcium, dissolved	M200.7 ICP	1	43.9			mg/L	0.1	0.5	12/29/21 21:08	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:08	kja
Chromium, total	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	12/29/21 5:59	jlw
Copper, dissolved	M200.7 ICP	1	0.021	B		mg/L	0.01	0.05	12/30/21 23:01	kja
Copper, total	M200.7 ICP	2	<0.02	U		mg/L	0.02	0.1	12/29/21 5:59	jlw
Iron, dissolved	M200.7 ICP	1	0.235			mg/L	0.06	0.15	12/29/21 21:08	kja
Iron, total	M200.7 ICP	2	0.387			mg/L	0.12	0.3	12/29/21 5:59	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:58	ja/mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:51	mfm
Magnesium, dissolved	M200.7 ICP	1	12.4			mg/L	0.2	1	12/29/21 21:08	kja
Manganese, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.01	0.05	12/29/21 21:08	kja
Manganese, total	M200.7 ICP	2	0.025	B		mg/L	0.02	0.1	12/29/21 5:59	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 9:13	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 8:28	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00139			mg/L	0.0002	0.0005	01/11/22 13:58	ja/mfm
Molybdenum, total	M200.8 ICP-MS	1	0.00123			mg/L	0.0002	0.0005	01/10/22 17:51	mfm
Potassium, dissolved	M200.7 ICP	1	1.86			mg/L	0.2	1	12/29/21 21:08	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.00025	01/11/22 13:58	ja/mfm
Selenium, total	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.00025	01/10/22 17:51	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/22 18:36	ja/mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:51	mfm
Sodium, dissolved	M200.7 ICP	1	20.0			mg/L	0.2	1	12/29/21 21:08	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:58	ja/mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:51	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0124			mg/L	0.0001	0.0005	01/11/22 13:58	ja/mfm
Uranium, total	M200.8 ICP-MS	1	0.0131		*	mg/L	0.0001	0.0005	01/10/22 17:51	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:08	kja
Zinc, total	M200.7 ICP	2	<0.04	U		mg/L	0.04	0.1	12/29/21 5:59	jlw

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-NWRP

ACZ Sample ID: **L70423-01**

Date Sampled: 12/08/21 11:35

Date Received: 12/10/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	70.3			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	70.3			mg/L	2	20	12/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.2			%			02/07/22 0:00	calc
Sum of Anions			4.1			meq/L			02/07/22 0:00	calc
Sum of Cations			4.2			meq/L			02/07/22 0:00	calc
Chloride	SM4500Cl-E	1	72.1		*	mg/L	0.5	2	01/04/22 13:57	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/20/21 20:24	mjj1
Fluoride	SM4500F-C	1	0.23	B		mg/L	0.15	0.35	01/04/22 16:15	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	12/29/21 2:56	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	02/07/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	12/30/21 23:33	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	276			mg/L	20	40	12/14/21 18:41	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/13/21 16:42	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	32.2			mg/L	1	5	12/30/21 17:03	mjj1
TDS (calculated)	Calculation		226			mg/L			02/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.22						02/07/22 0:00	calc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-AWD

ACZ Sample ID: **L70423-02**

Date Sampled: 12/08/21 12:00

Date Received: 12/10/21

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								12/20/21 10:56	bls
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								12/22/21 12:31	bls
Total Hot Plate Digestion	M200.2 ICP								12/22/21 16:00	kja
Total Hot Plate Digestion	M200.2 ICP-MS								12/20/21 11:12	bsu

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-AWD

ACZ Sample ID: **L70423-02**

Date Sampled: 12/08/21 12:00

Date Received: 12/10/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	12/29/21 21:12	kja
Aluminum, total	M200.7 ICP	5	<0.25	U		mg/L	0.25	1.25	12/30/21 1:06	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:38	ja/mfm
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/10/22 17:53	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/11/22 14:00	ja/mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/10/22 17:53	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 21:12	kja
Boron, total	M200.7 ICP	5	<0.15	U		mg/L	0.15	0.5	12/30/21 1:06	jlw
Calcium, dissolved	M200.7 ICP	1	42.7			mg/L	0.1	0.5	12/29/21 21:12	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:12	kja
Chromium, total	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	12/30/21 1:06	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/30/21 23:04	kja
Copper, total	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	12/30/21 1:06	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/29/21 21:12	kja
Iron, total	M200.7 ICP	5	<0.3	U		mg/L	0.3	0.75	12/30/21 1:06	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:00	ja/mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:53	mfm
Magnesium, dissolved	M200.7 ICP	1	11.4			mg/L	0.2	1	12/29/21 21:12	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 21:12	kja
Manganese, total	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	12/30/21 1:06	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 9:14	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 8:31	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00064			mg/L	0.0002	0.0005	01/11/22 14:00	ja/mfm
Molybdenum, total	M200.8 ICP-MS	1	0.00048	B		mg/L	0.0002	0.0005	01/10/22 17:53	mfm
Potassium, dissolved	M200.7 ICP	1	1.62			mg/L	0.2	1	12/29/21 21:12	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.00025	01/11/22 14:00	ja/mfm
Selenium, total	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.00025	01/10/22 17:53	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/22 18:38	ja/mfm
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:53	mfm
Sodium, dissolved	M200.7 ICP	1	20.8			mg/L	0.2	1	12/29/21 21:12	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:00	ja/mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:53	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00355			mg/L	0.0001	0.0005	01/11/22 14:00	ja/mfm
Uranium, total	M200.8 ICP-MS	1	0.00364		*	mg/L	0.0001	0.0005	01/10/22 17:53	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:12	kja
Zinc, total	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	12/30/21 1:06	jlw

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Project ID: 3100-PO205

Sample ID: SW-AWD

ACZ Sample ID: **L70423-02**

Date Sampled: 12/08/21 12:00

Date Received: 12/10/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	65.7			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	65.7			mg/L	2	20	12/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.3			%			02/07/22 0:00	calc
Sum of Anions			3.9			meq/L			02/07/22 0:00	calc
Sum of Cations			4.0			meq/L			02/07/22 0:00	calc
Chloride	SM4500Cl-E	1	71.6		*	mg/L	0.5	2	01/04/22 13:57	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/20/21 20:25	mjj1
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	01/04/22 16:23	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.039	B	*	mg/L	0.02	0.1	12/29/21 2:58	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	02/07/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	12/30/21 23:36	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	240			mg/L	20	40	12/14/21 18:43	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/14/21 16:32	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	28.8			mg/L	1	5	12/30/21 17:03	mjj1
TDS (calculated)	Calculation		217			mg/L			02/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						02/07/22 0:00	calc

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-0

ACZ Sample ID: **L70423-03**

Date Sampled: 12/08/21 11:06

Date Received: 12/10/21

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								12/20/21 11:04	bls
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								12/22/21 12:40	bls
Total Hot Plate Digestion	M200.2 ICP-MS								12/20/21 11:36	bsu
Total Hot Plate Digestion	M200.2 ICP								12/22/21 16:14	kja

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Project ID: 3100-PO205

Sample ID: MW-0

ACZ Sample ID: **L70423-03**

Date Sampled: 12/08/21 11:06

Date Received: 12/10/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	12/29/21 21:15	kja
Aluminum, total	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	12/29/21 6:12	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/14/22 12:16	kja
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/10/22 17:55	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/11/22 14:02	ja/mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/10/22 17:55	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 21:15	kja
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 6:12	jlw
Calcium, dissolved	M200.7 ICP	1	111			mg/L	0.1	0.5	12/29/21 21:15	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:15	kja
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 6:12	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/30/21 23:14	kja
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 6:12	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/29/21 21:15	kja
Iron, total	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/29/21 6:12	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:02	ja/mfm
Lead, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:55	mfm
Magnesium, dissolved	M200.7 ICP	1	37.3			mg/L	0.2	1	12/29/21 21:15	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 21:15	kja
Manganese, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 6:12	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 9:15	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 8:33	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0150			mg/L	0.0002	0.0005	01/11/22 14:02	ja/mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0140			mg/L	0.0002	0.0005	01/10/22 17:55	mfm
Potassium, dissolved	M200.7 ICP	1	4.36			mg/L	0.2	1	12/29/21 21:15	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00078			mg/L	0.0001	0.00025	01/11/22 14:02	ja/mfm
Selenium, total	M200.8 ICP-MS	1	0.00082			mg/L	0.0001	0.00025	01/10/22 17:55	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/14/22 12:16	kja
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:55	mfm
Sodium, dissolved	M200.7 ICP	1	22.9			mg/L	0.2	1	12/29/21 21:15	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:02	ja/mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 17:55	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.649			mg/L	0.0001	0.0005	01/11/22 14:02	ja/mfm
Uranium, total	M200.8 ICP-MS	1	0.647		*	mg/L	0.0001	0.0005	01/10/22 17:55	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:15	kja
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 6:12	jlw

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Project ID: 3100-PO205

Sample ID: MW-0

ACZ Sample ID: **L70423-03**

Date Sampled: 12/08/21 11:06

Date Received: 12/10/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	160			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	160			mg/L	2	20	12/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.2			%			02/07/22 0:00	calc
Sum of Anions			9.1			meq/L			02/07/22 0:00	calc
Sum of Cations			9.7			meq/L			02/07/22 0:00	calc
Chloride	SM4500Cl-E	1	27.2		*	mg/L	0.5	2	01/04/22 13:58	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/20/21 20:28	mjj1
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	01/04/22 16:43	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	2.00		*	mg/L	0.02	0.1	12/29/21 3:01	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	02/07/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	12/30/21 23:38	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	590			mg/L	20	40	12/14/21 18:48	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/14/21 16:33	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	20	246			mg/L	20	100	12/30/21 17:28	mjj1
TDS (calculated)	Calculation		547			mg/L			02/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.08						02/07/22 0:00	calc

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Project ID: 3100-PO205

Sample ID: MW-00

ACZ Sample ID: **L70423-04**

Date Sampled: 12/08/21 13:03

Date Received: 12/10/21

Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation								12/20/21 11:13	bls
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								12/22/21 12:45	bls
Total Hot Plate Digestion	M200.2 ICP								12/22/21 16:28	kja
Total Hot Plate Digestion	M200.2 ICP-MS								12/20/21 12:00	bsu

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Project ID: 3100-PO205

Sample ID: MW-00

ACZ Sample ID: **L70423-04**

Date Sampled: 12/08/21 13:03

Date Received: 12/10/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	12/29/21 21:18	kja
Aluminum, total	M200.7 ICP	1	0.071	B		mg/L	0.05	0.25	12/29/21 6:21	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/14/22 12:18	kja
Antimony, total	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/10/22 18:00	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/11/22 14:04	ja/mfm
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/10/22 18:00	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 21:18	kja
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	12/29/21 6:21	jlw
Calcium, dissolved	M200.7 ICP	1	46.6			mg/L	0.1	0.5	12/29/21 21:18	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:18	kja
Chromium, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 6:21	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/30/21 23:17	kja
Copper, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 6:21	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/29/21 21:18	kja
Iron, total	M200.7 ICP	1	0.115	B		mg/L	0.06	0.15	12/29/21 6:21	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:04	ja/mfm
Lead, total	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.0005	01/10/22 18:00	mfm
Magnesium, dissolved	M200.7 ICP	1	13.3			mg/L	0.2	1	12/29/21 21:18	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 21:18	kja
Manganese, total	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	12/29/21 6:21	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 9:16	mlh
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/17/21 8:34	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00045	B		mg/L	0.0002	0.0005	01/11/22 14:04	ja/mfm
Molybdenum, total	M200.8 ICP-MS	1	0.00046	B		mg/L	0.0002	0.0005	01/10/22 18:00	mfm
Potassium, dissolved	M200.7 ICP	1	2.03			mg/L	0.2	1	12/29/21 21:18	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.00025	01/11/22 14:04	ja/mfm
Selenium, total	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.00025	01/10/22 18:00	mfm
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/14/22 12:18	kja
Silver, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 18:00	mfm
Sodium, dissolved	M200.7 ICP	1	18.5			mg/L	0.2	1	12/29/21 21:18	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 14:04	ja/mfm
Thallium, total	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/10/22 18:00	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00288			mg/L	0.0001	0.0005	01/11/22 14:04	ja/mfm
Uranium, total	M200.8 ICP-MS	1	0.00241		*	mg/L	0.0001	0.0005	01/10/22 18:00	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 21:18	kja
Zinc, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 6:21	jlw

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Project ID: 3100-PO205

Sample ID: MW-00

ACZ Sample ID: **L70423-04**

Date Sampled: 12/08/21 13:03

Date Received: 12/10/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	84.1			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	84.1			mg/L	2	20	12/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.4			%			02/07/22 0:00	calc
Sum of Anions			4.1			meq/L			02/07/22 0:00	calc
Sum of Cations			4.3			meq/L			02/07/22 0:00	calc
Chloride	SM4500Cl-E	1	64.1		*	mg/L	0.5	2	01/04/22 13:59	md
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/20/21 20:28	mjj1
Fluoride	SM4500F-C	1	0.19	B		mg/L	0.15	0.35	01/04/22 16:51	eep
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	12/29/21 3:02	pjb
Phosphate, total	Calculation based on total Phosphorus		0.0899	B		mg/L	0.03	0.2	02/07/22 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.029	B	*	mg/L	0.01	0.05	12/30/21 23:39	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	236			mg/L	20	40	12/14/21 18:50	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/14/21 16:35	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	27.9			mg/L	1	5	12/30/21 17:03	mjj1
TDS (calculated)	Calculation		224			mg/L			02/07/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						02/07/22 0:00	calc

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

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ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533845													
WG533845PBW1	PBW	12/17/21 19:46				U	mg/L		-20	20			
WG533845LCSW3	LCSW	12/17/21 20:08	WC211215-1	820.0001		786.4	mg/L	96	90	110			
WG533845LCSW6	LCSW	12/17/21 23:11	WC211215-1	820.0001		768.9	mg/L	94	90	110			
WG533845PBW2	PBW	12/17/21 23:19				2.9	mg/L		-20	20			
WG533845LCSW9	LCSW	12/18/21 3:35	WC211215-1	820.0001		771.4	mg/L	94	90	110			
WG533845PBW3	PBW	12/18/21 3:43				3	mg/L		-20	20			
WG533845LCSW12	LCSW	12/18/21 7:56	WC211215-1	820.0001		794.9	mg/L	97	90	110			
WG533845PBW4	PBW	12/18/21 8:05				3	mg/L		-20	20			
L70428-03DUP	DUP	12/18/21 12:27			60.3	60.4	mg/L				0	20	
WG533845LCSW15	LCSW	12/18/21 12:48	WC211215-1	820.0001		803.8	mg/L	98	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.016	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.15	0.15			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.2502		.245	mg/L	98	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	200.4102		207.4	mg/L	103	1	200			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	1.0008		.984	mg/L	98	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	1.0008	U	.94	mg/L	94	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	1.0008	U	1.057	mg/L	106	85	115	12	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		1.008	mg/L	101	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.15	0.15			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		1.021	mg/L	102	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.15	0.15			
L70568-01AS	AS	12/29/21 21:42	II211228-2	1.0008	.252	1.293	mg/L	104	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	1.0008	.252	1.278	mg/L	103	85	115	1	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		1.009	mg/L	101	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.15	0.15			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.957	mg/L	98	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.15	0.15			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.2502		.251	mg/L	100	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	200.4102		200.7	mg/L	100	1	200			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.11	0.11			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	1.0008		1.043	mg/L	104	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	2.0038	U	2.062	mg/L	103	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	2.0038	U	2.06	mg/L	103	70	130	0	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.951	mg/L	95	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.15	0.15			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.949	mg/L	95	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.15	0.15			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.947	mg/L	95	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.15	0.15			
WG534215													
WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.982	mg/L	99	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.15	0.15			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.2502		.254	mg/L	102	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	200.4102		203	mg/L	101	1	200			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.11	0.11			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	1.0008		1.045	mg/L	104	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	2.0038	U	2.102	mg/L	105	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	2.0038	U	2.124	mg/L	106	70	130	1	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.983	mg/L	98	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.15	0.15			

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ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534896													
WG534896ICV	ICV	01/12/22 18:04	MS220105-1	.0201		.02011	mg/L	100	90	110			
WG534896ICB	ICB	01/12/22 18:06				U	mg/L		-0.00088	0.00088			
WG534896LFB	LFB	01/12/22 18:08	MS211216-3	.01		.00978	mg/L	98	85	115			
L70399-03AS	AS	01/12/22 18:17	MS211216-3	.01	U	.01135	mg/L	114	70	130			
L70399-03ASD	ASD	01/12/22 18:19	MS211216-3	.01	U	.01152	mg/L	115	70	130	1	20	
WG534896CCV1	CCV	01/12/22 18:30	MS220105-3	.0125		.01299	mg/L	104	90	110			E6
WG534896CCB1	CCB	01/12/22 18:32				U	mg/L		-0.0012	0.0012			E6
WG534896CCV2	CCV	01/12/22 18:55	MS220105-3	.0125		.01299	mg/L	104	90	110			
WG534896CCB2	CCB	01/12/22 18:57				U	mg/L		-0.0012	0.0012			

WG534981

WG534981ICV	ICV	01/14/22 12:05	MS220105-1	.0201		.01959	mg/L	97	90	110			
WG534981ICB	ICB	01/14/22 12:07				.00055	mg/L		-0.00088	0.00088			
WG534981LFB	LFB	01/14/22 12:08	MS211216-3	.01		.0109	mg/L	109	85	115			
L70424-01AS	AS	01/14/22 12:22	MS211216-3	.01	U	.01004	mg/L	100	70	130			
L70424-01ASD	ASD	01/14/22 12:23	MS211216-3	.01	U	.01045	mg/L	105	70	130	4	20	
WG534981CCV1	CCV	01/14/22 12:27	MS220105-3	.0125		.01278	mg/L	102	90	110			
WG534981CCB1	CCB	01/14/22 12:29				U	mg/L		-0.0012	0.0012			
WG534981CCV2	CCV	01/14/22 12:50	MS220105-3	.0125		.01236	mg/L	99	90	110			
WG534981CCB2	CCB	01/14/22 12:52				U	mg/L		-0.0012	0.0012			
WG534981CCV3	CCV	01/14/22 13:03	MS220105-3	.0125		.0127	mg/L	102	90	110			
WG534981CCB3	CCB	01/14/22 13:05				U	mg/L		-0.0012	0.0012			

Antimony, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.0201		.02045	mg/L	102	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0012	0.0012			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00088	0.00088			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.01		.01055	mg/L	106	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.1	U	.11137	mg/L	111	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.1	U	.10946	mg/L	109	70	130	2	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.0125		.01285	mg/L	103	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0012	0.0012			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.0125		.01263	mg/L	101	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0012	0.0012			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.0125		.01271	mg/L	102	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0012	0.0012			

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ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.0519	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00044	0.00044			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04976	mg/L	99	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	.012	.06361	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	.012	.06581	mg/L	108	70	130	3	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.1001		.0982	mg/L	98	90	110			E6
WG534781CCB1	CCB	01/11/22 13:54				U	mg/L		-0.0006	0.0006			IA
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.1001		.10352	mg/L	103	90	110			
WG534781CCB2	CCB	01/11/22 14:19				U	mg/L		-0.0006	0.0006			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1001	.005	.1099	mg/L	105	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1001	.005	.11153	mg/L	106	70	130	1	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.1001		.10394	mg/L	104	90	110			
WG534781CCB3	CCB	01/11/22 14:34				U	mg/L		-0.0006	0.0006			

Arsenic, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.05		.05127	mg/L	103	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0006	0.0006			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00044	0.00044			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05005		.04969	mg/L	99	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.501	.652	1.09601	mg/L	89	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.501	.652	1.10959	mg/L	91	70	130	1	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.1001		.10254	mg/L	102	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0006	0.0006			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.1001		.10081	mg/L	101	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0006	0.0006			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.1001		.10122	mg/L	101	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0006	0.0006			

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.004	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.09	0.09			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.1001		.097	mg/L	97	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	.1001		.093	mg/L	93	80	120			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5005		.49	mg/L	98	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5005	U	.534	mg/L	107	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5005	U	.53	mg/L	106	85	115	1	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		.991	mg/L	99	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.09	0.09			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		.993	mg/L	99	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.09	0.09			
L70568-01AS	AS	12/29/21 21:42	II211228-2	.5005	U	.534	mg/L	107	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	.5005	U	.535	mg/L	107	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		.986	mg/L	99	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.09	0.09			

ENSERO

ACZ Project ID: **L70423**

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Boron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		2.01	mg/L	101	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.09	0.09			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.1001		.101	mg/L	101	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	.1001		.093	mg/L	93	80	120			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.066	0.066			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	.5005		.513	mg/L	102	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	1.001	U	1.048	mg/L	105	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	1.001	U	1.024	mg/L	102	70	130	2	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.981	mg/L	98	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.09	0.09			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.986	mg/L	99	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.09	0.09			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.978	mg/L	98	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.09	0.09			

WG534215

WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		2.018	mg/L	101	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.09	0.09			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.1001		.107	mg/L	107	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	.1001		.1	mg/L	100	80	120			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.066	0.066			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	.5005		.521	mg/L	104	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	1.001	U	1.073	mg/L	107	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	1.001	U	1.044	mg/L	104	70	130	3	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		1.01	mg/L	101	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.09	0.09			

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.46	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.3	0.3			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.50015		.51	mg/L	102	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	200.62015		199.2	mg/L	99	1	200			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	67.98808		68.07	mg/L	100	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	67.98808	80.7	141.3	mg/L	89	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	67.98808	80.7	148.3	mg/L	99	85	115	5	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	50		50.26	mg/L	101	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.3	0.3			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	50		50.2	mg/L	100	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.3	0.3			
L70568-01AS	AS	12/29/21 21:42	II211228-2	67.98808	48.3	117.2	mg/L	101	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	67.98808	48.3	117	mg/L	101	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	50		50.04	mg/L	100	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.3	0.3			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534429													
WG534429ICV	ICV	01/04/22 13:52	WI210503-1	54.89		55.18	mg/L	101	90	110			
WG534429ICB	ICB	01/04/22 13:52				1.29	mg/L		-1.5	1.5			
WG534429LFB1	LFB	01/04/22 13:53	WI210908-11	29.97		28.95	mg/L	97	90	110			
L70401-01AS	AS	01/04/22 13:54	WI210908-11	29.97	33.6	43.5	mg/L	33	90	110			M2
L70401-02DUP	DUP	01/04/22 13:55			30	31.42	mg/L				5	20	
WG534429CCV1	CCV	01/04/22 13:58	WI211201-1	49.95		51.66	mg/L	103	90	110			
WG534429CCB1	CCB	01/04/22 13:59				.69	mg/L		-1.5	1.5			
WG534429CCV2	CCV	01/04/22 14:04	WI211201-1	49.95		52.02	mg/L	104	90	110			
WG534429CCB2	CCB	01/04/22 14:05				.96	mg/L		-1.5	1.5			
WG534429LFB2	LFB	01/04/22 14:08	WI210908-11	29.97		28.69	mg/L	96	90	110			
WG534429CCV3	CCV	01/04/22 14:10	WI211201-1	49.95		51.71	mg/L	104	90	110			
WG534429CCB3	CCB	01/04/22 14:11				.73	mg/L		-1.5	1.5			
WG534429CCV4	CCV	01/04/22 14:15	WI211201-1	49.95		51.46	mg/L	103	90	110			
WG534429CCB4	CCB	01/04/22 14:16				1.29	mg/L		-1.5	1.5			
WG534429CCV5	CCV	01/04/22 14:30	WI211201-1	49.95		52.14	mg/L	104	90	110			
WG534429CCB5	CCB	01/04/22 14:31				1.15	mg/L		-1.5	1.5			
WG534429CCV6	CCV	01/04/22 14:35	WI211201-1	49.95		52.81	mg/L	106	90	110			
WG534429CCB6	CCB	01/04/22 14:36				1.05	mg/L		-1.5	1.5			
WG534429CCV7	CCV	01/04/22 14:45	WI211201-1	49.95		51.97	mg/L	104	90	110			
WG534429CCB7	CCB	01/04/22 14:45				1.12	mg/L		-1.5	1.5			
WG534429CCV8	CCV	01/04/22 14:46	WI211201-1	49.95		53.45	mg/L	107	90	110			
WG534429CCB8	CCB	01/04/22 14:47				1.18	mg/L		-1.5	1.5			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.975	mg/L	99	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.06	0.06			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.05005		.037	mg/L	74	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	.1001		.085	mg/L	85	80	120			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5005		.478	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5005	U	.502	mg/L	100	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5005	U	.492	mg/L	98	85	115	2	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		.984	mg/L	98	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.06	0.06			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		.982	mg/L	98	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.06	0.06			
L70568-01AS	AS	12/29/21 21:42	II211228-2	.5005	U	.493	mg/L	99	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	.5005	U	.495	mg/L	99	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		.979	mg/L	98	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.06	0.06			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.965	mg/L	98	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.06	0.06			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.05005		.048	mg/L	96	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	.1001		.083	mg/L	83	80	120			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.044	0.044			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	.5005		.51	mg/L	102	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	.996	U	1.025	mg/L	103	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	.996	U	1.004	mg/L	101	70	130	2	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.97	mg/L	97	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.06	0.06			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.969	mg/L	97	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.06	0.06			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.968	mg/L	97	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.06	0.06			

WG534215

WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.956	mg/L	98	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.06	0.06			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.05005		.05	mg/L	100	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	.1001		.087	mg/L	87	80	120			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.044	0.044			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	.5005		.504	mg/L	101	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	.996	U	1.036	mg/L	104	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	.996	U	1.018	mg/L	102	70	130	2	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.976	mg/L	98	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534274													
WG534274ICV	ICV	12/30/21 22:29	II211214-2	2		1.989	mg/L	99	95	105			
WG534274ICB	ICB	12/30/21 22:35				U	mg/L		-0.03	0.03			
WG534274PQV	PQV	12/30/21 22:38	II211130-3	.05		.046	mg/L	92	70	130			
WG534274SIC	SIC	12/30/21 22:41	II211130-4	.1		.097	mg/L	97	80	120			
WG534274LFB	LFB	12/30/21 22:48	II211228-2	.5		.505	mg/L	101	85	115			
L70423-02AS	AS	12/30/21 23:07	II211228-2	.5	U	.509	mg/L	102	85	115			
L70423-02ASD	ASD	12/30/21 23:10	II211228-2	.5	U	.514	mg/L	103	85	115	1	20	
WG534274CCV1	CCV	12/30/21 23:20	II211211-2	1		1.003	mg/L	100	90	110			
WG534274CCB1	CCB	12/30/21 23:23				U	mg/L		-0.03	0.03			
WG534274CCV2	CCV	12/30/21 23:59	II211211-2	1		.987	mg/L	99	90	110			
WG534274CCB2	CCB	12/31/21 0:02				U	mg/L		-0.03	0.03			
WG534274CCV3	CCV	12/31/21 0:12	II211211-2	1		.979	mg/L	98	90	110			
WG534274CCB3	CCB	12/31/21 0:16				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.982	mg/L	99	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.03	0.03			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.05		.052	mg/L	104	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	.1		.101	mg/L	101	80	120			
WG534081LRB	LRB	12/29/21 5:43				.012	mg/L		-0.022	0.022			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	.5		.508	mg/L	102	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	1	U	1.031	mg/L	103	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	1	U	1.003	mg/L	100	70	130	3	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.974	mg/L	97	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.03	0.03			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.974	mg/L	97	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.03	0.03			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.971	mg/L	97	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.03	0.03			

WG534215

WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.979	mg/L	99	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.03	0.03			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.05		.047	mg/L	94	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	.1		.098	mg/L	98	80	120			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.022	0.022			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	.5		.505	mg/L	101	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	1	U	1.026	mg/L	103	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	1	U	1.013	mg/L	101	70	130	1	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.986	mg/L	99	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.03	0.03			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533955													
WG533955ICV	ICV	12/20/21 20:16	WI211209-3	.3003		.3178	mg/L	106	90	110			
WG533955ICB	ICB	12/20/21 20:17				U	mg/L		-0.003	0.003			
WG533730LRB	LRB	12/20/21 20:17				U	mg/L		-0.003	0.003			
WG533730LFB	LFB	12/20/21 20:18	WI211208-5	.2002		.1869	mg/L	93	90	110			
L70385-01DUP	DUP	12/20/21 20:20			U	U	mg/L				0	20	RA
L70419-01LFM	LFM	12/20/21 20:22	WI211208-5	.2002	U	.1964	mg/L	98	90	110			
WG533955CCV1	CCV	12/20/21 20:26	WI211206-2	.25		.2522	mg/L	101	90	110			
WG533955CCB1	CCB	12/20/21 20:27				U	mg/L		-0.003	0.003			
WG533955CCV2	CCV	12/20/21 20:36	WI211206-2	.25		.2552	mg/L	102	90	110			
WG533955CCB2	CCB	12/20/21 20:37				U	mg/L		-0.003	0.003			
WG533955CCV3	CCV	12/20/21 20:45	WI211206-2	.25		.254	mg/L	102	90	110			
WG533955CCB3	CCB	12/20/21 20:45				U	mg/L		-0.003	0.003			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534426													
WG534426ICV	ICV	01/04/22 14:58	WC220104-1	2.008		2.06	mg/L	103	90	110			
WG534426ICB	ICB	01/04/22 15:02				U	mg/L		-0.3	0.3			
WG534426PQV	PQV	01/04/22 15:07	WC220104-4	.3514		.28	mg/L	80	70	130			
WG534426LFB1	LFB	01/04/22 15:14	WC220104-2	5.02		5.26	mg/L	105	90	110			
L70365-01AS	AS	01/04/22 15:30	WC220104-2	5.02	.41	5.42	mg/L	100	90	110			
L70365-01ASD	ASD	01/04/22 15:38	WC220104-2	5.02	.41	5.55	mg/L	102	90	110	2	20	
WG534426CCV1	CCV	01/04/22 16:27	WC220104-1	2.008		2.08	mg/L	104	90	110			
WG534426CCB1	CCB	01/04/22 16:35				U	mg/L		-0.3	0.3			
WG534426CCV2	CCV	01/04/22 17:59	WC220104-1	2.008		2.13	mg/L	106	90	110			
WG534426CCB2	CCB	01/04/22 18:07				U	mg/L		-0.3	0.3			
WG534426LFB2	LFB	01/04/22 18:55	WC220104-2	5.02		5.42	mg/L	108	90	110			
WG534426CCV3	CCV	01/04/22 19:51	WC220104-1	2.008		2.08	mg/L	104	90	110			
WG534426CCB3	CCB	01/04/22 19:59				U	mg/L		-0.3	0.3			
WG534426CCV4	CCV	01/04/22 21:34	WC220104-1	2.008		2.04	mg/L	102	90	110			
WG534426CCB4	CCB	01/04/22 21:40				U	mg/L		-0.3	0.3			
WG534426CCV5	CCV	01/04/22 23:05	WC220104-1	2.008		2.1	mg/L	105	90	110			
WG534426CCB5	CCB	01/04/22 23:13				U	mg/L		-0.3	0.3			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.942	mg/L	97	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.18	0.18			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.150015		.137	mg/L	91	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	200.170015		194.9	mg/L	97	1	200			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	1.0001		.953	mg/L	95	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	1.0001	U	1.008	mg/L	101	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	1.0001	U	.991	mg/L	99	85	115	2	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		.99	mg/L	99	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.18	0.18			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		.991	mg/L	99	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.18	0.18			
L70568-01AS	AS	12/29/21 21:42	II211228-2	1.0001	U	.984	mg/L	98	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	1.0001	U	.985	mg/L	98	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		.969	mg/L	97	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.18	0.18			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.945	mg/L	97	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.18	0.18			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.150015		.152	mg/L	101	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	200.170015		196.8	mg/L	98	1	200			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.132	0.132			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	1.0001		1.049	mg/L	105	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	2.0022	.387	2.412	mg/L	101	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	2.0022	.387	2.598	mg/L	110	70	130	7	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.97	mg/L	97	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.18	0.18			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.983	mg/L	98	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.18	0.18			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.968	mg/L	97	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.18	0.18			

WG534215

WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.956	mg/L	98	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.18	0.18			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.150015		.147	mg/L	98	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	200.170015		193.4	mg/L	97	1	200			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.132	0.132			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	1.0001		1.047	mg/L	105	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	2.0022	.394	2.418	mg/L	102	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	2.0022	.394	2.676	mg/L	115	70	130	10	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.984	mg/L	98	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.18	0.18			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05189	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04718	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.05139	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.0539	mg/L	108	70	130	5	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.25025		.24182	mg/L	97	90	110			
WG534781CCB1	CCB	01/11/22 13:54				U	mg/L		-0.0003	0.0003			
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.25025		.2475	mg/L	99	90	110			
WG534781CCB2	CCB	01/11/22 14:19				U	mg/L		-0.0003	0.0003			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1001	.00228	.10896	mg/L	107	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1001	.00228	.10587	mg/L	103	70	130	3	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.25025		.24473	mg/L	98	90	110			
WG534781CCB3	CCB	01/11/22 14:34				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.05		.0535	mg/L	107	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0003	0.0003			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00022	0.00022			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05005		.05113	mg/L	102	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.496	U	.54692	mg/L	110	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.496	U	.5376	mg/L	108	70	130	2	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.25025		.25188	mg/L	101	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0003	0.0003			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.25025		.25253	mg/L	101	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0003	0.0003			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.25025		.25462	mg/L	102	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0003	0.0003			

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		97.02	mg/L	97	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	1.0001		.93	mg/L	93	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	201.0201		206.2	mg/L	103	1	200			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	49.99847		48.05	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	49.99847	39	82.67	mg/L	87	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	49.99847	39	87.98	mg/L	98	85	115	6	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	50		48.3	mg/L	97	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.6	0.6			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	50		48.44	mg/L	97	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.6	0.6			
L70568-01AS	AS	12/29/21 21:42	II211228-2	49.99847	9.58	59.45	mg/L	100	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	49.99847	9.58	59.18	mg/L	99	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	50		48.28	mg/L	97	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.6	0.6			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.98	mg/L	99	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.03	0.03			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.05005		.048	mg/L	96	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	49.95005		48.15	mg/L	96	1	200			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.499		.492	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.499	.058	.564	mg/L	101	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.499	.058	.557	mg/L	100	85	115	1	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		.99	mg/L	99	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.03	0.03			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		.992	mg/L	99	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.03	0.03			
L70568-01AS	AS	12/29/21 21:42	II211228-2	.499	.022	.528	mg/L	101	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	.499	.022	.527	mg/L	101	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		.993	mg/L	99	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.03	0.03			

Manganese, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.934	mg/L	97	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.03	0.03			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.05005		.05	mg/L	100	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	49.95005		46.9	mg/L	94	1	200			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.022	0.022			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	.499		.497	mg/L	100	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	1	.025	1.032	mg/L	101	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	1	.025	1.008	mg/L	98	70	130	2	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.959	mg/L	96	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.03	0.03			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.96	mg/L	96	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.03	0.03			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.953	mg/L	95	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.03	0.03			
WG534215													
WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.933	mg/L	97	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.03	0.03			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.05005		.049	mg/L	98	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	49.95005		47.52	mg/L	95	1	200			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.022	0.022			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	.499		.497	mg/L	100	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	1	.024	1.036	mg/L	101	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	1	.024	1.02	mg/L	100	70	130	2	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.973	mg/L	97	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.03	0.03			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533707													
WG533707ICV	ICV	12/17/21 8:20	HG211213-3	.00501		.00524	mg/L	105	95	105			
WG533707ICB	ICB	12/17/21 8:21				U	mg/L		-0.0002	0.0002			
WG533686													
WG533686CCV1	CCV	12/17/21 8:56	HG211213-3	.00501		.00534	mg/L	107	90	110			
WG533686CCB1	CCB	12/17/21 8:57				U	mg/L		-0.0002	0.0002			
WG533686PQV	PQV	12/17/21 8:57	HG211213-5	.001001		.00095	mg/L	95	70	130			
WG533686LRB	LRB	12/17/21 8:58				U	mg/L		-0.00044	0.00044			
WG533686LFB	LFB	12/17/21 8:59	HG211213-6	.002002		.00215	mg/L	107	85	115			
WG533686CCV2	CCV	12/17/21 9:07	HG211213-3	.00501		.00535	mg/L	107	90	110			
WG533686CCB2	CCB	12/17/21 9:08				U	mg/L		-0.0002	0.0002			
WG533686CCV3	CCV	12/17/21 9:18	HG211213-3	.00501		.00528	mg/L	105	90	110			
WG533686CCB3	CCB	12/17/21 9:19				U	mg/L		-0.0002	0.0002			
L70436-06LFB	LFB	12/17/21 9:25	HG211213-6	.002002	U	.00197	mg/L	98	85	115			
L70436-06LFMD	LFMD	12/17/21 9:26	HG211213-6	.002002	U	.00218	mg/L	109	85	115	10	20	
WG533686CCV4	CCV	12/17/21 9:27	HG211213-3	.00501		.00529	mg/L	106	90	110			
WG533686CCB4	CCB	12/17/21 9:28				U	mg/L		-0.0002	0.0002			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533707													
WG533707ICV	ICV	12/17/21 8:20	HG211213-3	.00501		.00524	mg/L	105	95	105			
WG533707ICB	ICB	12/17/21 8:21				U	mg/L		-0.0002	0.0002			
WG533707PQV	PQV	12/17/21 8:22	HG211213-5	.001001		.00095	mg/L	95	70	130			
WG533707LRB	LRB	12/17/21 8:23				U	mg/L		-0.00044	0.00044			
WG533707LFB	LFB	12/17/21 8:24	HG211213-6	.002002		.00204	mg/L	102	85	115			
L70423-01LFB	LFB	12/17/21 8:29	HG211213-6	.002002	U	.00225	mg/L	112	85	115			
L70423-01LFMD	LFMD	12/17/21 8:30	HG211213-6	.002002	U	.00213	mg/L	106	85	115	5	20	
WG533707CCV1	CCV	12/17/21 8:32	HG211213-3	.00501		.00521	mg/L	104	90	110			
WG533707CCB1	CCB	12/17/21 8:33				U	mg/L		-0.0002	0.0002			
WG533707CCV2	CCV	12/17/21 8:43	HG211213-3	.00501		.00519	mg/L	104	90	110			
WG533707CCB2	CCB	12/17/21 8:44				U	mg/L		-0.0002	0.0002			
WG533707CCV3	CCV	12/17/21 8:51	HG211213-3	.00501		.00535	mg/L	107	90	110			
WG533707CCB3	CCB	12/17/21 8:52				U	mg/L		-0.0002	0.0002			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.02		.02033	mg/L	102	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00044	0.00044			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04756	mg/L	95	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	.00315	.0569	mg/L	107	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	.00315	.05937	mg/L	112	70	130	4	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.1001		.10297	mg/L	103	90	110			
WG534781CCB1	CCB	01/11/22 13:54				U	mg/L		-0.0006	0.0006			
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.1001		.10161	mg/L	102	90	110			
WG534781CCB2	CCB	01/11/22 14:19				U	mg/L		-0.0006	0.0006			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1001	U	.11379	mg/L	114	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1001	U	.1139	mg/L	114	70	130	0	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.1001		.10767	mg/L	108	90	110			
WG534781CCB3	CCB	01/11/22 14:34				U	mg/L		-0.0006	0.0006			

Molybdenum, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.02		.01987	mg/L	99	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0006	0.0006			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00044	0.00044			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05005		.04877	mg/L	97	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.5015	U	.55745	mg/L	111	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.5015	U	.55159	mg/L	110	70	130	1	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.1001		.10267	mg/L	103	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0006	0.0006			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.1001		.1014	mg/L	101	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0006	0.0006			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.1001		.10146	mg/L	101	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0006	0.0006			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534194													
WG534194ICV	ICV	12/29/21 1:17	WI211205-1	2.4161		2.361	mg/L	98	90	110			
WG534194ICB	ICB	12/29/21 1:18				U	mg/L		-0.02	0.02			
WG534197													
WG534197CCV1	CCV	12/29/21 2:30	WI211228-9	2		2.007	mg/L	100	90	110			
WG534197CCB1	CCB	12/29/21 2:33				U	mg/L		-0.02	0.02			
WG534197LFB	LFB	12/29/21 2:34	WI211001-5	2		2.082	mg/L	104	90	110			
WG534197CCV2	CCV	12/29/21 2:47	WI211228-9	2		1.963	mg/L	98	90	110			
WG534197CCB2	CCB	12/29/21 2:50				U	mg/L		-0.02	0.02			
L70423-01AS	AS	12/29/21 2:57	WI211001-5	2	U	1.874	mg/L	94	90	110			
L70423-02DUP	DUP	12/29/21 3:00			.039	.04	mg/L				3	20	RA
WG534197CCV3	CCV	12/29/21 3:05	WI211228-9	2		1.949	mg/L	97	90	110			
WG534197CCB3	CCB	12/29/21 3:08				U	mg/L		-0.02	0.02			
WG534197CCV4	CCV	12/29/21 3:19	WI211228-9	2		1.947	mg/L	97	90	110			
WG534197CCB4	CCB	12/29/21 3:22				U	mg/L		-0.02	0.02			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534316													
WG534316ICV	ICV	12/30/21 23:27	WI211112-2	.65228		.66	mg/L	101	90	110			
WG534316ICB	ICB	12/30/21 23:30				U	mg/L		-0.01	0.01			
WG534073LRB	LRB	12/30/21 23:31				U	mg/L		-0.01	0.01			
WG534073LFB	LFB	12/30/21 23:32	WI211214-2	.5		.476	mg/L	95	90	110			
L70423-01LFM	LFM	12/30/21 23:34	WI211214-2	.5	U	.476	mg/L	95	90	110			
L70423-02DUP	DUP	12/30/21 23:37			U	U	mg/L				0	20	RA
WG534316CCV1	CCV	12/30/21 23:42	WI211112-4	.5		.488	mg/L	98	90	110			
WG534316CCB1	CCB	12/30/21 23:44				U	mg/L		-0.01	0.01			
WG534316CCV2	CCV	12/30/21 23:56	WI211112-4	.5		.49	mg/L	98	90	110			
WG534316CCB2	CCB	12/30/21 23:57				U	mg/L		-0.01	0.01			
WG534316CCV3	CCV	12/31/21 0:07	WI211112-4	.5		.486	mg/L	97	90	110			
WG534316CCB3	CCB	12/31/21 0:08				U	mg/L		-0.01	0.01			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	20		19.96	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.9958		1.09	mg/L	109	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	.9958		1.07	mg/L	107	80	120			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	99.96008		98.6	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	99.96008	3.85	98.44	mg/L	95	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	99.96008	3.85	109.6	mg/L	106	85	115	11	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	10		9.89	mg/L	99	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.6	0.6			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	10		9.9	mg/L	99	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.6	0.6			
L70568-01AS	AS	12/29/21 21:42	II211228-2	99.96008	7.64	110.3	mg/L	103	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	99.96008	7.64	110.2	mg/L	103	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	10		9.97	mg/L	100	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.6	0.6			

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533543													
WG533543PBW	PBW	12/14/21 18:20				U	mg/L		-20	20			
WG533543LCSW	LCSW	12/14/21 18:22	PCN64712	1000		970	mg/L	97	80	120			
L70423-02DUP	DUP	12/14/21 18:46			240	240	mg/L				0	10	
L70428-01DUP	DUP	12/14/21 19:09			1360	1332	mg/L				2	10	

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533468													
WG533468PBW	PBW	12/13/21 15:55				U	mg/L		-5	5			
WG533468LCSW	LCSW	12/13/21 15:57	PCN64712	100		96	mg/L	96	80	120			
L70423-01DUP	DUP	12/13/21 16:44			U	U	mg/L				0	10	RA
WG533540													
WG533540PBW	PBW	12/14/21 16:20				U	mg/L		-2	2			
WG533540LCSW	LCSW	12/14/21 16:21	PCN64712	100		94	mg/L	94	80	120			
L70424-02DUP	DUP	12/14/21 16:40			U	U	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05299	mg/L	106	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04834	mg/L	97	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	U	.0524	mg/L	105	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	U	.0548	mg/L	110	70	130	4	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.25		.24336	mg/L	97	90	110			
WG534781CCB1	CCB	01/11/22 13:54				.0002	mg/L		-0.0003	0.0003			
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.25		.251	mg/L	100	90	110			
WG534781CCB2	CCB	01/11/22 14:19				.00027	mg/L		-0.0003	0.0003			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1	.0352	.12127	mg/L	86	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1	.0352	.11285	mg/L	78	70	130	7	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.25		.24296	mg/L	97	90	110			
WG534781CCB3	CCB	01/11/22 14:34				.00244	mg/L		-0.0003	0.0003			BB

Selenium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.05		.05169	mg/L	103	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0003	0.0003			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00022	0.00022			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05		.05005	mg/L	100	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.5005	.246	.77744	mg/L	106	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.5005	.246	.74167	mg/L	99	70	130	5	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.25		.25377	mg/L	102	90	110			
WG534737CCB1	CCB	01/10/22 17:59				.00013	mg/L		-0.0003	0.0003			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.25		.25786	mg/L	103	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0003	0.0003			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.25		.25546	mg/L	102	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534896													
WG534896ICV	ICV	01/12/22 18:04	MS220105-1	.02		.02141	mg/L	107	90	110			
WG534896ICB	ICB	01/12/22 18:06				U	mg/L		-0.00022	0.00022			
WG534896LFB	LFB	01/12/22 18:08	MS211216-3	.01		.00977	mg/L	98	85	115			
L70399-03AS	AS	01/12/22 18:17	MS211216-3	.01	U	.01048	mg/L	105	70	130			
L70399-03ASD	ASD	01/12/22 18:19	MS211216-3	.01	U	.01054	mg/L	105	70	130	1	20	
WG534896CCV1	CCV	01/12/22 18:30	MS220105-3	.025		.02751	mg/L	110	90	110			E6
WG534896CCB1	CCB	01/12/22 18:32				U	mg/L		-0.0003	0.0003			E6
WG534896CCV2	CCV	01/12/22 18:55	MS220105-3	.025		.02725	mg/L	109	90	110			
WG534896CCB2	CCB	01/12/22 18:57				U	mg/L		-0.0003	0.0003			
WG534981													
WG534981ICV	ICV	01/14/22 12:05	MS220105-1	.02		.02087	mg/L	104	90	110			
WG534981ICB	ICB	01/14/22 12:07				U	mg/L		-0.00022	0.00022			
WG534981LFB	LFB	01/14/22 12:08	MS211216-3	.01		.01106	mg/L	111	85	115			
L70424-01AS	AS	01/14/22 12:22	MS211216-3	.01	U	.01017	mg/L	102	70	130			
L70424-01ASD	ASD	01/14/22 12:23	MS211216-3	.01	U	.01024	mg/L	102	70	130	1	20	
WG534981CCV1	CCV	01/14/22 12:27	MS220105-3	.025		.02589	mg/L	104	90	110			
WG534981CCB1	CCB	01/14/22 12:29				U	mg/L		-0.0003	0.0003			
WG534981CCV2	CCV	01/14/22 12:50	MS220105-3	.025		.02558	mg/L	102	90	110			
WG534981CCB2	CCB	01/14/22 12:52				U	mg/L		-0.0003	0.0003			
WG534981CCV3	CCV	01/14/22 13:03	MS220105-3	.025		.02593	mg/L	104	90	110			
WG534981CCB3	CCB	01/14/22 13:05				U	mg/L		-0.0003	0.0003			

Silver, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.02		.0204	mg/L	102	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0003	0.0003			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00022	0.00022			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.01		.00985	mg/L	99	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.1002	U	.09444	mg/L	94	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.1002	U	.09381	mg/L	94	70	130	1	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.025		.02556	mg/L	102	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0003	0.0003			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.025		.02546	mg/L	102	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0003	0.0003			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.025		.02551	mg/L	102	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.95	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	1.0053		1.01	mg/L	100	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	1.0053		1.05	mg/L	104	80	120			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	100.0086		99.03	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	100.0086	2.84	98.82	mg/L	96	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	100.0086	2.84	109.9	mg/L	107	85	115	11	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	50		50.42	mg/L	101	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.6	0.6			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	50		50.27	mg/L	101	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.6	0.6			
L70568-01AS	AS	12/29/21 21:42	II211228-2	100.0086	16	118.3	mg/L	102	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	100.0086	16	118.5	mg/L	102	85	115	0	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	50		49.98	mg/L	100	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.6	0.6			

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534307													
WG534307ICB	ICB	12/30/21 15:19				U	mg/L		-3	3			
WG534307ICV	ICV	12/30/21 15:19	WI211230-3	19.9		19.1	mg/L	96	90	110			
WG534307CCV1	CCV	12/30/21 17:03	WI211230-4	24.875		25.3	mg/L	102	90	110			
WG534307CCB1	CCB	12/30/21 17:03				U	mg/L		-3	3			
WG534307LFB	LFB	12/30/21 17:03	WI211230-5	9.95		9.7	mg/L	97	90	110			
L70423-01DUP	DUP	12/30/21 17:03			32.2	32.4	mg/L				1	20	
L70423-02AS	AS	12/30/21 17:03	WI211230-5	9.95	28.8	38.2	mg/L	94	90	110			
WG534307CCV2	CCV	12/30/21 17:05	WI211230-4	24.875		25.3	mg/L	102	90	110			
WG534307CCB2	CCB	12/30/21 17:05				U	mg/L		-3	3			
WG534307CCV3	CCV	12/30/21 17:07	WI211230-4	24.875		25.4	mg/L	102	90	110			
WG534307CCB3	CCB	12/30/21 17:07				U	mg/L		-3	3			
WG534307CCV4	CCV	12/30/21 17:09	WI211230-4	24.875		25.3	mg/L	102	90	110			
WG534307CCB4	CCB	12/30/21 17:09				U	mg/L		-3	3			
WG534307CCV5	CCV	12/30/21 17:23	WI211230-4	24.875		25.1	mg/L	101	90	110			
WG534307CCB5	CCB	12/30/21 17:23				U	mg/L		-3	3			
WG534307CCV6	CCV	12/30/21 17:26	WI211230-4	24.875		25.7	mg/L	103	90	110			
WG534307CCB6	CCB	12/30/21 17:26				U	mg/L		-3	3			
WG534307CCV7	CCV	12/30/21 17:29	WI211230-4	24.875		24.9	mg/L	100	90	110			
WG534307CCB7	CCB	12/30/21 17:29				U	mg/L		-3	3			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05178	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04711	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.0003	.05038	mg/L	100	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.0003	.05261	mg/L	105	70	130	4	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.1		.09901	mg/L	99	90	110			
WG534781CCB1	CCB	01/11/22 13:54				U	mg/L		-0.0003	0.0003			
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.1		.09987	mg/L	100	90	110			
WG534781CCB2	CCB	01/11/22 14:19				U	mg/L		-0.0003	0.0003			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1	U	.10528	mg/L	105	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1	U	.10324	mg/L	103	70	130	2	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.1		.09851	mg/L	99	90	110			
WG534781CCB3	CCB	01/11/22 14:34				U	mg/L		-0.0003	0.0003			

Thallium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.05		.0543	mg/L	109	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0003	0.0003			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00022	0.00022			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05		.04983	mg/L	100	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.501	.0206	.56579	mg/L	109	70	130			
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.501	.0206	.56357	mg/L	108	70	130	0	20	
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.1		.10027	mg/L	100	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0003	0.0003			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.1		.101	mg/L	101	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0003	0.0003			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.1		.10229	mg/L	102	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0003	0.0003			

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05227	mg/L	105	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04681	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.00522	.0581	mg/L	106	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.00522	.0621	mg/L	114	70	130	7	20	
WG534781CCV1	CCV	01/11/22 13:52	MS220105-3	.1		.0946	mg/L	95	90	110			
WG534781CCB1	CCB	01/11/22 13:54				U	mg/L		-0.0003	0.0003			
WG534781CCV2	CCV	01/11/22 14:17	MS220105-3	.1		.0981	mg/L	98	90	110			
WG534781CCB2	CCB	01/11/22 14:19				U	mg/L		-0.0003	0.0003			
L70436-06AS	AS	01/11/22 14:28	MS211216-3	.1	.00107	.11028	mg/L	109	70	130			
L70436-06ASD	ASD	01/11/22 14:30	MS211216-3	.1	.00107	.10365	mg/L	103	70	130	6	20	
WG534781CCV3	CCV	01/11/22 14:32	MS220105-3	.1		.09477	mg/L	95	90	110			
WG534781CCB3	CCB	01/11/22 14:34				U	mg/L		-0.0003	0.0003			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534737													
WG534737ICV	ICV	01/10/22 17:34	MS220105-1	.05		.05309	mg/L	106	90	110			
WG534737ICB	ICB	01/10/22 17:36				U	mg/L		-0.0003	0.0003			
WG533878LRB	LRB	01/10/22 17:38				U	mg/L		-0.00022	0.00022			
WG533878LFB	LFB	01/10/22 17:40	MS211216-3	.05		.05035	mg/L	101	85	115			
L70401-02LFM	LFM	01/10/22 17:45	MS10XW	.5	12.7	13.64135	mg/L	188	70	130			M3
L70401-02LFMD	LFMD	01/10/22 17:47	MS10XW	.5	12.7	13.54416	mg/L	169	70	130	1	20	M3
WG534737CCV1	CCV	01/10/22 17:57	MS220105-3	.1		.10221	mg/L	102	90	110			
WG534737CCB1	CCB	01/10/22 17:59				U	mg/L		-0.0003	0.0003			
WG534737CCV2	CCV	01/10/22 18:19	MS220105-3	.1		.10207	mg/L	102	90	110			
WG534737CCB2	CCB	01/10/22 18:21				U	mg/L		-0.0003	0.0003			
WG534737CCV3	CCV	01/10/22 18:34	MS220105-3	.1		.10333	mg/L	103	90	110			
WG534737CCB3	CCB	01/10/22 18:36				U	mg/L		-0.0003	0.0003			

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.978	mg/L	99	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.06	0.06			
WG534225PQV	PQV	12/29/21 20:20	II211130-3	.05015		.044	mg/L	88	70	130			
WG534225SIC	SIC	12/29/21 20:23	II211130-4	.1003		.101	mg/L	101	80	120			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.50045		.49	mg/L	98	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.50045	.672	1.134	mg/L	92	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.50045	.672	1.181	mg/L	102	85	115	4	20	
WG534225CCV1	CCV	12/29/21 20:59	II211211-2	1		.993	mg/L	99	90	110			
WG534225CCB1	CCB	12/29/21 21:02				U	mg/L		-0.06	0.06			
WG534225CCV2	CCV	12/29/21 21:36	II211211-2	1		1.006	mg/L	101	90	110			
WG534225CCB2	CCB	12/29/21 21:39				U	mg/L		-0.06	0.06			
L70568-01AS	AS	12/29/21 21:42	II211228-2	.50045	U	.525	mg/L	105	85	115			
L70568-01ASD	ASD	12/29/21 21:45	II211228-2	.50045	U	.521	mg/L	104	85	115	1	20	
WG534225CCV3	CCV	12/29/21 21:58	II211211-2	1		.971	mg/L	97	90	110			
WG534225CCB3	CCB	12/29/21 22:01				U	mg/L		-0.06	0.06			

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534166													
WG534166ICV	ICV	12/29/21 5:24	II211215-1	2		1.958	mg/L	98	95	105			
WG534166ICB	ICB	12/29/21 5:30				U	mg/L		-0.06	0.06			
WG534166PQV	PQV	12/29/21 5:33	II211130-3	.05015		.048	mg/L	96	70	130			
WG534166SIC	SIC	12/29/21 5:36	II211130-5	.1003		.095	mg/L	95	80	120			
WG534081LRB	LRB	12/29/21 5:43				U	mg/L		-0.044	0.044			
WG534081LFB	LFB	12/29/21 5:46	II211217-2	.50045		.531	mg/L	106	85	115			
L70423-01LFM	LFM	12/29/21 6:02	II2XWATER	.9884	U	1.056	mg/L	107	70	130			
L70423-01LFMD	LFMD	12/29/21 6:05	II2XWATER	.9884	U	1.058	mg/L	107	70	130	0	20	
WG534166CCV1	CCV	12/29/21 6:15	II211206-1	1		.954	mg/L	95	90	110			
WG534166CCB1	CCB	12/29/21 6:18				U	mg/L		-0.06	0.06			
WG534166CCV2	CCV	12/29/21 6:54	II211206-1	1		.957	mg/L	96	90	110			
WG534166CCB2	CCB	12/29/21 6:57				U	mg/L		-0.06	0.06			
WG534166CCV3	CCV	12/29/21 7:20	II211206-1	1		.953	mg/L	95	90	110			
WG534166CCB3	CCB	12/29/21 7:23				U	mg/L		-0.06	0.06			
WG534215													
WG534215ICV	ICV	12/30/21 0:31	II211215-1	2		1.95	mg/L	98	95	105			
WG534215ICB	ICB	12/30/21 0:37				U	mg/L		-0.06	0.06			
WG534215PQV	PQV	12/30/21 0:40	II211130-3	.05015		.052	mg/L	104	70	130			
WG534215SIC	SIC	12/30/21 0:44	II211130-5	.1003		.099	mg/L	99	80	120			
WG534081LRB	LRB	12/30/21 0:50				U	mg/L		-0.044	0.044			
WG534081LFB	LFB	12/30/21 0:53	II211217-2	.50045		.528	mg/L	106	85	115			
L70423-01LFM	LFM	12/30/21 1:00	II2XWATER	.9884	U	1.061	mg/L	107	70	130			
L70423-01LFMD	LFMD	12/30/21 1:03	II2XWATER	.9884	U	1.063	mg/L	108	70	130	0	20	
WG534215CCV	CCV	12/30/21 1:09	II211229-1	1		.973	mg/L	97	90	110			
WG534215CCB	CCB	12/30/21 1:13				U	mg/L		-0.06	0.06			

Ensero Solutions

ACZ Project ID: **L70423**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70423-01	WG534429	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533955	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534197	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534316	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG533468	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG534081	Total Hot Plate Digestion	M200.2 ICP	DJ	Sample dilution required due to insufficient sample.
L70423-02	WG534737	Uranium, total	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534429	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533955	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534197	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534316	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG533540	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L70423-03	WG534737	Uranium, total	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534429	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533955	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534197	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534316	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG533540	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
L70423-04	WG534737	Uranium, total	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Ensero Solutions

ACZ Project ID: **L70423**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70423-04	WG534429	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533955	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534197	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG534316	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG533540	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG534737	Uranium, total	M200.8 ICP-MS	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-NWRP

Locator:

ACZ Sample ID: **L70423-01**

Date Sampled: 12/08/21 11:35

Date Received: 12/10/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	02/07/22 11:55		0.24			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	12/21/21 0:34		9.2	3.5	12	pCi/L		ttg
Gross Beta	12/21/21 0:34		5.8	3.2	13	pCi/L		ttg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/27/22 0:15		0.22	0.09	0.39	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	02/04/22 0:02		0.24	0.08	0.23	pCi/L	*	amk/fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	01/07/22 15:13		0.67	1	2.6	pCi/L		ess

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-AWD

Locator:

ACZ Sample ID: **L70423-02**

Date Sampled: 12/08/21 12:00

Date Received: 12/10/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	02/07/22 11:55		0			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	12/21/21 0:36		2.6	2.2	5.7	pCi/L		ttg
Gross Beta	12/21/21 0:36		3.3	3	11	pCi/L		ttg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/27/22 0:18		0.15	0.1	0.5	pCi/L		fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	02/04/22 0:05		0.2	0.11	0.43	pCi/L	*	amk/fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	01/07/22 15:13		0.98	0.9	2.2	pCi/L		ess

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-0

Locator:

ACZ Sample ID: **L70423-03**

Date Sampled: 12/08/21 11:06

Date Received: 12/10/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	02/07/22 11:55		0			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	12/21/21 0:37		230	20	12	pCi/L		ttg
Gross Beta	12/21/21 0:37		110	7.6	8.3	pCi/L		ttg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/27/22 0:20		0.11	0.08	0.36	pCi/L		fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	02/04/22 0:07		0.13	0.1	0.46	pCi/L	*	amk/fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	01/07/22 15:13		0.82	1	2.5	pCi/L		ess

Ensero Solutions

Project ID: 3100-PO205

Sample ID: MW-00

Locator:

ACZ Sample ID: **L70423-04**

Date Sampled: 12/08/21 13:03

Date Received: 12/10/21

Sample Matrix: Surface Water

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	02/07/22 11:55		0			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	01/04/22 0:08		5.5	3	7.6	pCi/L	*	ttg
Gross Beta	01/04/22 0:08		12	3.5	7.8	pCi/L	*	ttg

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	01/27/22 0:21		0.15	0.07	0.39	pCi/L		fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	02/04/22 0:10		0.37	0.12	0.49	pCi/L	*	amk/fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	01/07/22 15:13		0.15	0.78	1.8	pCi/L		ess

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://aczk.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG533476																
WG533476PBW	PBW	12/21/21						.95	0.98	4.2			8.4			
WG533476LCSWA	LCSW	12/21/21	PCN64375	100				120	9.3	4.7	120	67	144			
L70164-01DUP	DUP-RER	12/21/21			-0.36	1.7	7.6	2.6	2.4	13				1.01	2	
L70164-01DUP	DUP-RPD	12/21/21			-0.36	1.7	7.6	2.6	2.4	13				264	20	RG
L70355-01MSA	MS	12/21/21	PCN64375	1000	43	36	280	760	110	270	72	67	144			
L70385-01DUP	DUP-RPD	12/21/21			180	22	17	160	19	13				12	20	
WG534136																
WG534136PBW	PBW	01/04/22						.9	1.1	1.1			2.2			
WG534136LCSWA	LCSW	01/04/22	PCN64375	100				110	9	1.6	110	67	144			
L70423-04DUP	DUP-RER	01/04/22			5.5	3	7.6	4.4	2.8	7.2				0.27	2	
L70423-04DUP	DUP-RPD	01/04/22			5.5	3	7.6	4.4	2.8	7.2				22	20	RG
L70424-01MSA	MS	01/04/22	PCN64375	100	10	3.9	17	120	11	7	110	67	144			
L70482-06DUP	DUP-RPD	01/04/22			8.5	7.6	59	2.1	6.2	33				121	20	RG
L70482-06DUP	DUP-RER	01/04/22			8.5	7.6	59	2.1	6.2	33				0.65	2	

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beta

M900.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG533476																
WG533476PBW	PBW	12/21/21						1.2	1.8	5.1			10.2			
WG533476LCSWB	LCSW	12/21/21	PCN63439	99.8				110	6.9	13	110	82	122			
L70164-01DUP	DUP-RPD	12/21/21			1.9	3.2	9.7	5	3.2	14				90	20	RG
L70164-01DUP	DUP-RER	12/21/21			1.9	3.2	9.7	5	3.2	14				0.69	2	
L70355-02MSB	MS	12/21/21	PCN63439	998	-8.6	28	87	1100	75	66	111	82	122			
L70385-01DUP	DUP-RPD	12/21/21			55	7.2	9.2	56	7.5	16				2	20	
WG534136																
WG534136PBW	PBW	01/04/22						2	2	2.1			4.2			
WG534136LCSWB	LCSW	01/04/22	RC210621-11	49.9				61	5.6	2.8	122	82	122			
L70423-04DUP	DUP-RPD	01/04/22			12	3.5	7.8	7.6	3.5	9.6				45	20	RG
L70423-04DUP	DUP-RER	01/04/22			12	3.5	7.8	7.6	3.5	9.6				0.89	2	
L70424-02MSB	MS	01/04/22	RC210621-11	49.9	6.4	3.2	22	62	5.6	8	111	82	122			
L70482-06DUP	DUP-RPD	01/04/22			10	6.7	48	10	6.5	18				0	20	

Radium 226, dissolved

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG534765																
WG534765LCSW	LCSW	01/27/22	PCN64374	20				25	0.67	0.09	125	43	148			
WG534765PBW	PBW	01/27/22						.11	0.07	0.07			0.14			
L70423-01DUP	DUP-RPD	01/27/22			0.22	0.09	0.39	.36	0.1	0.35				48	20	RG
L70423-01DUP	DUP-RER	01/27/22			0.22	0.09	0.39	.36	0.1	0.35				1.04	2	
L70423-04MS	MS	01/27/22	PCN64374	20	0.15	0.07	0.39	16	0.48	0.47	79	43	148			
L70424-01DUP	DUP-RPD	01/27/22			0.23	0.09	0.37	.24	0.07	0.42				4	20	

ENSERO

ACZ Project ID: **L70423**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Radium 226, total

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG535469																
WG535469PBW	PBW	02/04/22						.06	0.08	0.08			0.16			
WG535469LCSW	LCSW	02/04/22	PCN64374	20				17	0.49	0.1	85	43	148			
L70423-01DUP	DUP-RER	02/04/22			0.24	0.08	0.23	.53	0.12	0.41				2.01	2	
L70423-01DUP	DUP-RPD	02/04/22			0.24	0.08	0.23	.53	0.12	0.41				75	20	RG
L70423-03MS	MS	02/04/22	PCN64374	20	0.13	0.1	0.46	18	0.49	0.36	89	43	148			
L70641-01DUP	DUP-RPD	02/04/22			0.05	0.07	0.27	.11	0.09	0.28				75	20	RG
L70641-01DUP	DUP-RER	02/04/22			0.05	0.07	0.27	.11	0.09	0.28				0.52	2	

Radium 228, total

M904.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG534391																
WG534391LCSW	LCSW	01/07/22	PCN64684	9.72				11	1.2	0.83	113	47	123			
WG534391PBW	PBW	01/07/22						.48	0.51	0.51			1.02			
L70424-01DUP	DUP-RER	01/07/22			0.67	0.77	1.9	.67	1	2.4				0	2	
L70424-01DUP	DUP-RPD	01/07/22			0.67	0.77	1.9	.67	1	2.4				0	20	
L70623-07DUP	DUP-RER	01/07/22			1.7	0.73	1.7	.95	0.67	1.5				0.76	2	
L70623-07DUP	DUP-RPD	01/07/22			1.7	0.73	1.7	.95	0.67	1.5				57	20	RG
L70623-03MS	MS	01/07/22	PCN64684	9.72	2.2	1.2	2.8	8.6	1	1.7	66	47	123			

Ensero Solutions

ACZ Project ID: **L70423**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70423-01	WG534765	Radium 226, dissolved	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG535469	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L70423-02	WG535469	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L70423-03	WG535469	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L70423-04	WG534136	Gross Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Gross Beta	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG535469	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Ensero Solutions

ACZ Project ID: **L70423**

No certification qualifiers associated with this analysis

Ensero Solutions
3100-PO205

ACZ Project ID: L70423
Date Received: 12/10/2021 10:58
Received By: mjj
Date Printed: 12/13/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6855	5.9	NA	15	N/A
4740	3.8	<=6.0	15	N/A
6541	1.6	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Ensero Solutions
3100-PO205

ACZ Project ID: L70423

Date Received: 12/10/2021 10:58

Received By: mjj

Date Printed: 12/13/2021

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

**Laboratories, Inc.****L70423****CHAIN of CUSTODY**

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Christie Brizinski

Company: Ensero Solutions

E-mail: cbrizinski@ensero.com

Address: 131 E. Lincoln Ave Ste. 200

Fort Collins, CO 80524

Telephone: 867-668-6463, ext 229

Copy of Report to:

Name: Evan Valencia

Company: Ensero Solutions

E-mail: evalencia@ensero.com

Telephone: 818-688-1839

Invoice to:

Name: Pauline Wong

Company: Ensero Solutions

E-mail: ap@ensero.com

Address: 131 E. Lincoln Ave Ste. 200

Fort Collins, CO 80524

Telephone: 778-404-1182

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES



NO



If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes



No



If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: EV, NL

Sampler's Site Information

State CO

Zip code 80401

Time Zone MTN

*Sampler's Signature: *La Van*

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Ensero-2020

PO#: 3100-PO205

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION			DATE: TIME	Matrix	# of Containers	TSS	Sample suite #1	Sample suite #2	COD	LLHG trip blank	Sample suite #3	TDS	
SW-NWRP			12-8-2021: 11:35	SW	9	☐	☐	☐	☐	☐	☒	☐	☐
SW-AWD			12-8-2021: 12:00	SW	9	☐	☐	☐	☐	☐	☒	☐	☐
MW-0			12-8-2021: 11:06	GW	9	☐	☐	☐	☐	☐	☒	☐	☐
MW-00			12-8-2021: 13:03	GW	9	☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐	☐	☐	☐

Matrix

SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

36 containers accounted for by this COC. Shipped 12/09/2021.

Cooler 1 of 3 accounted for by this COC

Please also send reports to importer@alexco.ehsdata.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE: TIME

RECEIVED BY:

DATE: TIME

<i>E. Valencia</i>	12-4-21: 13:00	<i>[Signature]</i>	12/10/21 10:55

FRMAD050.06.14.14

White - Return with sample. Yellow - Retain for your records.



L70423 Chain of Custody

L70423-2202080918