

Report Transmission Cover Page

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County	Proj. Acct. code:	

Contact	Company	Address
Jessica Armitage	Flagstaff County	Box 358, 4902 - 50 Street Sedgewick, AB T0B 4C0 Phone: (780) 384-4104 Fax: (780) 384-3635 Email: jarmitage@flagstaff.ab.ca

Delivery	Format	Deliverables
Email - Merge	PDF	COA / COC
Email - Merge	PDF	COC / Test Report
Email - Merge	PDF	Invoice

Contact	Company	Address
Nick Dunn	Flagstaff County	358, 12435 Twp Rd 442 Sedgewick, AB T0B 4C0 Phone: (780) 384-4138 Fax: (780) 384-3635 Email: ndunn@flagstaff.ab.ca

Delivery	Format	Deliverables
Email	PDF	COR
Email - Merge	PDF	COA / COC
Email - Merge	PDF	COC / Test Report
Email - Merge	PDF	Invoice

Notes To Clients:

- Some total metal results were less than dissolved metal results for sample 3/4. The results were verified and are within expected measurement uncertainty.

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-1
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	01 / Daysland Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Dissolved					
Subsample		Lab Filtered			
Metals Total					
Calcium	Total	mg/L	5.8	0.2	
Iron	Total	mg/L	0.07	0.05	0.3 Below AO
Magnesium	Total	mg/L	0.6	0.2	
Manganese	Total	mg/L	<0.005	0.005	0.02 AO; 0.12 MAC Below AO
Potassium	Total	mg/L	1.6	0.4	
Silicon	Total	mg/L	4.39	0.05	
Sodium	Total	mg/L	466	0.4	200 Above AO
Sulfur	Total	mg/L	128	0.3	
Mercury	Total	mg/L	<0.000005	0.000005	0.001 Below MAC
Aluminum	Total	mg/L	<0.005	0.005	0.1 OG; 2.9 MAC Below OG
Antimony	Total	mg/L	<0.0002	0.0002	0.006 Below MAC
Arsenic	Total	mg/L	<0.0002	0.0002	0.01 Below MAC
Barium	Total	mg/L	0.011	0.001	2.0 Below MAC
Beryllium	Total	mg/L	<0.0001	0.0001	
Bismuth	Total	mg/L	<0.0005	0.0005	
Boron	Total	mg/L	0.631	0.002	5.0 Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007 Below MAC
Chromium	Total	mg/L	<0.0005	0.0005	0.05 Below MAC
Cobalt	Total	mg/L	<0.0001	0.0001	
Copper	Total	mg/L	<0.001	0.001	1 AO; 2 MAC Below AO
Lead	Total	mg/L	<0.0001	0.0001	0.005 Below MAC
Lithium	Total	mg/L	0.131	0.001	
Molybdenum	Total	mg/L	0.001	0.001	
Nickel	Total	mg/L	<0.0010	0.0005	
Selenium	Total	mg/L	<0.0002	0.0002	0.05 Below MAC
Silver	Total	mg/L	<0.00001	0.00001	
Strontium	Total	mg/L	0.156	0.001	7.0 Below MAC
Thallium	Total	mg/L	<0.00005	0.00005	
Tin	Total	mg/L	<0.001	0.001	
Titanium	Total	mg/L	<0.0005	0.0005	
Uranium	Total	mg/L	<0.0005	0.0005	0.02 Below MAC
Vanadium	Total	mg/L	<0.0001	0.0001	
Zinc	Total	mg/L	0.008	0.004	5.0 Below AO
Physical and Aggregate Properties					
Colour	Apparent, Potable	Colour units	<5	5	15 Below AO

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-1
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	01 / Daysland Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Physical and Aggregate Properties - Continued					
Turbidity	NTU	0.7	0.1	0.1/0.3/1.0 OG	
Routine Water					
pH		8.18	1	7.0-10.5	Within OG Range
Temp. of observed pH	°C	20.2			
Electrical Conductivity	at 25 °C µS/cm	1830	1		
Calcium	Dissolved mg/L	5.7	0.2		
Magnesium	Dissolved mg/L	0.5	0.2		
Sodium	Dissolved mg/L	459	0.4	200	Above AO
Potassium	Dissolved mg/L	1.6	0.4		
Iron	Dissolved mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved mg/L	<0.005	0.005	0.02 AO; 0.12 MAC	Below AO
Chloride	Dissolved mg/L	3.0	0.4	250	Below AO
Fluoride	mg/L	0.20	0.05	1.5	Below MAC
Nitrate - N	mg/L	0.60	0.01	10	Below MAC
Nitrite - N	mg/L	0.007	0.005	1	Below MAC
Nitrate and Nitrite - N	mg/L	0.60	0.01	10	Below MAC
Sulfate (SO4)	Dissolved mg/L	353	0.9	500	Below AO
Hydroxide	mg/L	<5			
Carbonate	mg/L	<6			
Bicarbonate	mg/L	752			
P-Alkalinity	as CaCO3 mg/L	<5	5		
T-Alkalinity	as CaCO3 mg/L	617	5		
Total Dissolved Solids	Calculated mg/L	1190	1	500	Above AO
Hardness	Dissolved as CaCO3 mg/L	17			
Ionic Balance	Dissolved %	103			

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-2
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	02 / Hastings Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Dissolved					
Subsample		Lab Filtered			
Metals Total					
Calcium	Total	mg/L	5.9	0.2	
Iron	Total	mg/L	0.10	0.05	0.3 Below AO
Magnesium	Total	mg/L	0.6	0.2	
Manganese	Total	mg/L	<0.005	0.005	0.02 AO; 0.12 MAC Below AO
Potassium	Total	mg/L	1.6	0.4	
Silicon	Total	mg/L	4.43	0.05	
Sodium	Total	mg/L	472	0.4	200 Above AO
Sulfur	Total	mg/L	129	0.3	
Mercury	Total	mg/L	<0.000005	0.000005	0.001 Below MAC
Aluminum	Total	mg/L	<0.005	0.005	0.1 OG; 2.9 MAC Below OG
Antimony	Total	mg/L	<0.0002	0.0002	0.006 Below MAC
Arsenic	Total	mg/L	<0.0002	0.0002	0.01 Below MAC
Barium	Total	mg/L	0.011	0.001	2.0 Below MAC
Beryllium	Total	mg/L	<0.0001	0.0001	
Bismuth	Total	mg/L	<0.0005	0.0005	
Boron	Total	mg/L	0.640	0.002	5.0 Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007 Below MAC
Chromium	Total	mg/L	<0.0005	0.0005	0.05 Below MAC
Cobalt	Total	mg/L	<0.0001	0.0001	
Copper	Total	mg/L	<0.001	0.001	1 AO; 2 MAC Below AO
Lead	Total	mg/L	0.0002	0.0001	0.005 Below MAC
Lithium	Total	mg/L	0.131	0.001	
Molybdenum	Total	mg/L	0.001	0.001	
Nickel	Total	mg/L	<0.0010	0.0005	
Selenium	Total	mg/L	<0.0002	0.0002	0.05 Below MAC
Silver	Total	mg/L	<0.00001	0.00001	
Strontium	Total	mg/L	0.155	0.001	7.0 Below MAC
Thallium	Total	mg/L	<0.00005	0.00005	
Tin	Total	mg/L	<0.001	0.001	
Titanium	Total	mg/L	<0.0005	0.0005	
Uranium	Total	mg/L	<0.0005	0.0005	0.02 Below MAC
Vanadium	Total	mg/L	<0.0001	0.0001	
Zinc	Total	mg/L	0.034	0.004	5.0 Below AO
Physical and Aggregate Properties					
Colour	Apparent, Potable	Colour units	<5	5	15 Below AO

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-2
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	02 / Hastings Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Physical and Aggregate Properties - Continued					
Turbidity	NTU	0.7	0.1	0.1/0.3/1.0 OG	
Routine Water					
pH		8.20	1	7.0-10.5	Within OG Range
Temp. of observed pH	°C	20.2			
Electrical Conductivity	at 25 °C µS/cm	1850	1		
Calcium	Dissolved mg/L	5.7	0.2		
Magnesium	Dissolved mg/L	0.5	0.2		
Sodium	Dissolved mg/L	460	0.4	200	Above AO
Potassium	Dissolved mg/L	1.6	0.4		
Iron	Dissolved mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved mg/L	<0.005	0.005	0.02 AO; 0.12 MAC	Below AO
Chloride	Dissolved mg/L	3.0	0.4	250	Below AO
Fluoride	mg/L	0.20	0.05	1.5	Below MAC
Nitrate - N	mg/L	0.52	0.01	10	Below MAC
Nitrite - N	mg/L	0.009	0.005	1	Below MAC
Nitrate and Nitrite - N	mg/L	0.53	0.01	10	Below MAC
Sulfate (SO4)	Dissolved mg/L	353	0.9	500	Below AO
Hydroxide	mg/L	<5			
Carbonate	mg/L	<6			
Bicarbonate	mg/L	763			
P-Alkalinity	as CaCO3 mg/L	<5	5		
T-Alkalinity	as CaCO3 mg/L	626	5		
Total Dissolved Solids	Calculated mg/L	1200	1	500	Above AO
Hardness	Dissolved as CaCO3 mg/L	16			
Ionic Balance	Dissolved %	102			

Analytical Report

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Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County	Proj. Acct. code:	

Reference Number	1783311-3
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	03 / Sedgewick Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Dissolved		Subsample Lab Filtered			
Metals Total					
Calcium	Total	mg/L	69.8	0.2	
Iron	Total	mg/L	0.74	0.05	0.3 Above AO
Magnesium	Total	mg/L	24.2	0.2	
Manganese	Total	mg/L	0.016	0.005	0.02 AO; 0.12 MAC Below AO
Potassium	Total	mg/L	1.8	0.4	
Silicon	Total	mg/L	6.36	0.05	
Sodium	Total	mg/L	19.7	0.4	200 Below AO
Sulfur	Total	mg/L	10.4	0.3	
Mercury	Total	mg/L	<0.000005	0.000005	0.001 Below MAC
Aluminum	Total	mg/L	<0.005	0.005	0.1 OG; 2.9 MAC Below OG
Antimony	Total	mg/L	<0.0002	0.0002	0.006 Below MAC
Arsenic	Total	mg/L	0.0005	0.0002	0.01 Below MAC
Barium	Total	mg/L	0.108	0.001	2.0 Below MAC
Beryllium	Total	mg/L	<0.0001	0.0001	
Bismuth	Total	mg/L	<0.0005	0.0005	
Boron	Total	mg/L	0.051	0.002	5.0 Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007 Below MAC
Chromium	Total	mg/L	<0.0005	0.0005	0.05 Below MAC
Cobalt	Total	mg/L	<0.0001	0.0001	
Copper	Total	mg/L	<0.001	0.001	1 AO; 2 MAC Below AO
Lead	Total	mg/L	<0.0001	0.0001	0.005 Below MAC
Lithium	Total	mg/L	0.026	0.001	
Molybdenum	Total	mg/L	0.002	0.001	
Nickel	Total	mg/L	<0.0010	0.0005	
Selenium	Total	mg/L	<0.0002	0.0002	0.05 Below MAC
Silver	Total	mg/L	<0.00001	0.00001	
Strontium	Total	mg/L	0.385	0.001	7.0 Below MAC
Thallium	Total	mg/L	<0.00005	0.00005	
Tin	Total	mg/L	<0.001	0.001	
Titanium	Total	mg/L	<0.0005	0.0005	
Uranium	Total	mg/L	<0.0005	0.0005	0.02 Below MAC
Vanadium	Total	mg/L	<0.0001	0.0001	
Zinc	Total	mg/L	0.018	0.004	5.0 Below AO
Physical and Aggregate Properties					
Colour	Apparent, Potable	Colour units	<5	5	15 Below AO

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-3
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	03 / Sedgewick Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Physical and Aggregate Properties - Continued					
Turbidity	NTU	2.4	0.1	0.1/0.3/1.0 OG	
Routine Water					
pH		7.71	1	7.0-10.5	Within OG Range
Temp. of observed pH	°C	20.3			
Electrical Conductivity	at 25 °C µS/cm	551	1		
Calcium	Dissolved mg/L	68.2	0.2		
Magnesium	Dissolved mg/L	23.2	0.2		
Sodium	Dissolved mg/L	19.4	0.4	200	Below AO
Potassium	Dissolved mg/L	1.8	0.4		
Iron	Dissolved mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved mg/L	0.012	0.005	0.02 AO; 0.12 MAC	Below AO
Chloride	Dissolved mg/L	0.7	0.4	250	Below AO
Fluoride	mg/L	0.17	0.05	1.5	Below MAC
Nitrate - N	mg/L	0.42	0.01	10	Below MAC
Nitrite - N	mg/L	<0.005	0.005	1	Below MAC
Nitrate and Nitrite - N	mg/L	0.42	0.01	10	Below MAC
Sulfate (SO4)	Dissolved mg/L	28	0.9	500	Below AO
Hydroxide	mg/L	<5			
Carbonate	mg/L	<6			
Bicarbonate	mg/L	345			
P-Alkalinity	as CaCO3 mg/L	<5	5		
T-Alkalinity	as CaCO3 mg/L	283	5		
Total Dissolved Solids	Calculated mg/L	311	1	500	Below AO
Hardness	Dissolved as CaCO3 mg/L	266			
Ionic Balance	Dissolved %	99			

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-4
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	04 / Loughheed Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Dissolved		Subsample Lab Filtered			
Metals Total					
Calcium	Total	mg/L	52.0	0.2	
Iron	Total	mg/L	<0.3	0.05	0.3 Below AO
Magnesium	Total	mg/L	13	0.2	
Manganese	Total	mg/L	0.11	0.005	0.02 AO; 0.12 MAC Above AO
Potassium	Total	mg/L	8.4	0.4	
Silicon	Total	mg/L	4.72	0.05	
Sodium	Total	mg/L	521	0.4	200 Above AO
Sulfur	Total	mg/L	234	0.3	
Mercury	Total	mg/L	<0.000005	0.000005	0.001 Below MAC
Aluminum	Total	mg/L	<0.02	0.005	0.1 OG; 2.9 MAC Below OG
Antimony	Total	mg/L	<0.001	0.0002	0.006 Below MAC
Arsenic	Total	mg/L	<0.001	0.0002	0.01 Below MAC
Barium	Total	mg/L	0.006	0.001	2.0 Below MAC
Beryllium	Total	mg/L	<0.0005	0.0001	
Bismuth	Total	mg/L	<0.002	0.0005	
Boron	Total	mg/L	0.42	0.002	5.0 Below MAC
Cadmium	Total	mg/L	<0.00005	0.00001	0.007 Below MAC
Chromium	Total	mg/L	<0.002	0.0005	0.05 Below MAC
Cobalt	Total	mg/L	<0.0005	0.0001	
Copper	Total	mg/L	<0.005	0.001	1 AO; 2 MAC Below AO
Lead	Total	mg/L	<0.0005	0.0001	0.005 Below MAC
Lithium	Total	mg/L	0.22	0.001	
Molybdenum	Total	mg/L	<0.005	0.001	
Nickel	Total	mg/L	<0.0050	0.0005	
Selenium	Total	mg/L	<0.001	0.0002	0.05 Below MAC
Silver	Total	mg/L	<0.00005	0.00001	
Strontium	Total	mg/L	1.18	0.001	7.0 Below MAC
Thallium	Total	mg/L	<0.0003	0.00005	
Tin	Total	mg/L	<0.005	0.001	
Titanium	Total	mg/L	<0.002	0.0005	
Uranium	Total	mg/L	<0.002	0.0005	0.02 Below MAC
Vanadium	Total	mg/L	<0.0005	0.0001	
Zinc	Total	mg/L	0.036	0.004	5.0 Below AO
Physical and Aggregate Properties					
Colour	Apparent, Potable	Colour units	<5	5	15 Below AO

Analytical Report

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Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-4
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	04 / Loughheed Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Physical and Aggregate Properties - Continued					
Turbidity	NTU	0.9	0.1	0.1/0.3/1.0 OG	
Routine Water					
pH		7.86	1	7.0-10.5	Within OG Range
Temp. of observed pH	°C	20.3			
Electrical Conductivity	at 25 °C µS/cm	2510	1		
Calcium	Dissolved mg/L	54.6	0.2		
Magnesium	Dissolved mg/L	14	0.2		
Sodium	Dissolved mg/L	545	0.4	200	Above AO
Potassium	Dissolved mg/L	8.9	0.4		
Iron	Dissolved mg/L	<0.05	0.01	0.3	Below AO
Manganese	Dissolved mg/L	0.11	0.005	0.02 AO; 0.12 MAC	Above AO
Chloride	Dissolved mg/L	30.7	0.4	250	Below AO
Fluoride	mg/L	<0.3	0.05	1.5	Below MAC
Nitrate - N	mg/L	0.46	0.01	10	Below MAC
Nitrite - N	mg/L	<0.02	0.005	1	Below MAC
Nitrate and Nitrite - N	mg/L	0.46	0.01	10	Below MAC
Sulfate (SO4)	Dissolved mg/L	692	0.9	500	Above AO
Hydroxide	mg/L	<5			
Carbonate	mg/L	<6			
Bicarbonate	mg/L	730			
P-Alkalinity	as CaCO3 mg/L	<5	5		
T-Alkalinity	as CaCO3 mg/L	599	5		
Total Dissolved Solids	Calculated mg/L	1700	1	500	Above AO
Hardness	Dissolved as CaCO3 mg/L	193			
Ionic Balance	Dissolved %	102			

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-5
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	05 / Killam Tank Loader / 11.2°C
Sample Matrix	Water

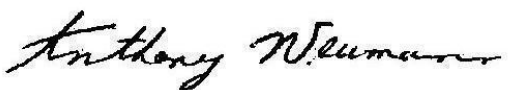
Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Dissolved					
Subsample		Lab Filtered			
Metals Total					
Calcium	Total	mg/L	96.2	0.2	
Iron	Total	mg/L	2.07	0.05	0.3 Above AO
Magnesium	Total	mg/L	29.0	0.2	
Manganese	Total	mg/L	0.108	0.005	0.02 AO; 0.12 MAC Above AO
Potassium	Total	mg/L	4.4	0.4	
Silicon	Total	mg/L	6.76	0.05	
Sodium	Total	mg/L	46.7	0.4	200 Below AO
Sulfur	Total	mg/L	45.6	0.3	
Mercury	Total	mg/L	<0.000005	0.000005	0.001 Below MAC
Aluminum	Total	mg/L	0.074	0.005	0.1 OG; 2.9 MAC Below OG
Antimony	Total	mg/L	<0.0002	0.0002	0.006 Below MAC
Arsenic	Total	mg/L	0.0020	0.0002	0.01 Below MAC
Barium	Total	mg/L	0.027	0.001	2.0 Below MAC
Beryllium	Total	mg/L	<0.0001	0.0001	
Bismuth	Total	mg/L	<0.0005	0.0005	
Boron	Total	mg/L	0.104	0.002	5.0 Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007 Below MAC
Chromium	Total	mg/L	<0.0005	0.0005	0.05 Below MAC
Cobalt	Total	mg/L	<0.0001	0.0001	
Copper	Total	mg/L	0.001	0.001	1 AO; 2 MAC Below AO
Lead	Total	mg/L	<0.0001	0.0001	0.005 Below MAC
Lithium	Total	mg/L	0.053	0.001	
Molybdenum	Total	mg/L	0.002	0.001	
Nickel	Total	mg/L	<0.0010	0.0005	
Selenium	Total	mg/L	<0.0002	0.0002	0.05 Below MAC
Silver	Total	mg/L	<0.00001	0.00001	
Strontium	Total	mg/L	0.889	0.001	7.0 Below MAC
Thallium	Total	mg/L	<0.00005	0.00005	
Tin	Total	mg/L	<0.001	0.001	
Titanium	Total	mg/L	<0.0005	0.0005	
Uranium	Total	mg/L	<0.0005	0.0005	0.02 Below MAC
Vanadium	Total	mg/L	<0.0001	0.0001	
Zinc	Total	mg/L	0.046	0.004	5.0 Below AO
Physical and Aggregate Properties					
Colour	Apparent, Potable	Colour units	15	5	15 Below AO

Analytical Report

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County		

Reference Number	1783311-5
Sample Date	December 10, 2024
Sample Time	NA
Sample Location	
Sample Description	05 / Killam Tank Loader / 11.2°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Physical and Aggregate Properties - Continued					
Turbidity	NTU	10.9	0.1	0.1/0.3/1.0 OG	
Routine Water					
pH		7.64	1	7.0-10.5	Within OG Range
Temp. of observed pH	°C	20.4			
Electrical Conductivity	at 25 °C µS/cm	800	1		
Calcium	Dissolved mg/L	94.1	0.2		
Magnesium	Dissolved mg/L	27.9	0.2		
Sodium	Dissolved mg/L	45.8	0.4	200	Below AO
Potassium	Dissolved mg/L	4.3	0.4		
Iron	Dissolved mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved mg/L	0.070	0.005	0.02 AO; 0.12 MAC	Above AO
Chloride	Dissolved mg/L	0.7	0.4	250	Below AO
Fluoride	mg/L	0.17	0.05	1.5	Below MAC
Nitrate - N	mg/L	0.45	0.01	10	Below MAC
Nitrite - N	mg/L	0.014	0.005	1	Below MAC
Nitrate and Nitrite - N	mg/L	0.46	0.01	10	Below MAC
Sulfate (SO4)	Dissolved mg/L	126	0.9	500	Below AO
Hydroxide	mg/L	<5			
Carbonate	mg/L	<6			
Bicarbonate	mg/L	392			
P-Alkalinity	as CaCO3 mg/L	<5	5		
T-Alkalinity	as CaCO3 mg/L	321	5		
Total Dissolved Solids	Calculated mg/L	492	1	500	Below AO
Hardness	Dissolved as CaCO3 mg/L	350			
Ionic Balance	Dissolved %	100			

Approved by: 
Anthony Neumann, MSc
General Manager

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
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Metals Dissolved

Batch: 2533464 - Metals Trace (Dissolved) in water

Blank	6695722	Dec 13, 2024	Sulfur	mg/L	<0.3	0.3	0.0				0.3	yes
Control Sample	6695720	Dec 13, 2024	Sulfur	mg/L	148						141.6 - 156.6	yes
Control Sample	6695719	Dec 13, 2024	Sulfur	mg/L	9.8						9.1 - 10.6	yes
Control Sample	6695718	Dec 13, 2024	Sulfur	mg/L	2.8						2.7 - 3.1	yes
Replicate	6695724	Dec 13, 2024	Sulfur	mg/L	59			59		0	10 % or 0.1 Abs	yes

Metals Total

Batch: 2533095 - Mercury (Total) in water

Blank	6694806	Dec 12, 2024	Mercury	µg/L	<0.000005	0.000005	0.0				0.054	yes
Control Sample	6694805	Dec 12, 2024	Mercury	mg/L	0.000101						7e-005 - 0.00013	yes
Control Sample	6694804	Dec 12, 2024	Mercury	mg/L	0.000022						6e-006 - 3.6e-005	yes
Replicate	6694807	Dec 12, 2024	Mercury	mg/L	0.000015			0.000018		14.8	10 % or 3e-005 Abs	yes

Batch: 2534464 - Metals ICP-MS (Total) in water

Blank	6698352	Dec 16, 2024	Aluminum	µg/L	<5	5	0.0				5	yes
Blank	6698352	Dec 16, 2024	Antimony	µg/L	<0.2	0.2	0.0				0.2	yes
Blank	6698352	Dec 16, 2024	Arsenic	µg/L	<0.2	0.2	0.0				0.2	yes
Blank	6698352	Dec 16, 2024	Barium	µg/L	<1	1	0.0				1	yes
Blank	6698352	Dec 16, 2024	Beryllium	µg/L	<0.1	0.1	0.0				0.1	yes
Blank	6698352	Dec 16, 2024	Bismuth	µg/L	<0.5	0.5	0.0				0.5	yes
Blank	6698352	Dec 16, 2024	Boron	µg/L	<2	2	0.0				2	yes
Blank	6698352	Dec 16, 2024	Cadmium	µg/L	<0.01	0.01	0.0				0.01	yes
Blank	6698352	Dec 16, 2024	Chromium	µg/L	<0.5	0.5	0.0				0.5	yes
Blank	6698352	Dec 16, 2024	Cobalt	µg/L	<0.1	0.1	0.0				0.1	yes
Blank	6698352	Dec 16, 2024	Copper	µg/L	<1	1	0.0				1	yes
Blank	6698352	Dec 16, 2024	Lead	µg/L	<0.1	0.1	0.0				0.1	yes
Blank	6698352	Dec 16, 2024	Lithium	µg/L	<1	1	0.0				1	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Blank	6698352	Dec 16, 2024	Molybdenum	µg/L	<1	1	0.0				1	yes
Blank	6698352	Dec 16, 2024	Nickel	µg/L	<1.0	1.0	0.0				1	yes
Blank	6698352	Dec 16, 2024	Selenium	µg/L	<0.2	0.2	0.0				0.2	yes
Blank	6698352	Dec 16, 2024	Silver	µg/L	<0.01	0.01	0.0				0.01	yes
Blank	6698352	Dec 16, 2024	Strontium	µg/L	<1	1	0.0				1	yes
Blank	6698352	Dec 16, 2024	Thallium	µg/L	<0.05	0.05	0.0				0.05	yes
Blank	6698352	Dec 16, 2024	Tin	µg/L	<1	1	0.0				1	yes
Blank	6698352	Dec 16, 2024	Titanium	µg/L	<0.5	0.5	0.0				0.5	yes
Blank	6698352	Dec 16, 2024	Uranium	µg/L	<0.5	0.5	0.0				0.5	yes
Blank	6698352	Dec 16, 2024	Vanadium	µg/L	<0.1	0.1	0.0				0.1	yes
Blank	6698352	Dec 16, 2024	Zinc	µg/L	<4	4	0.0				4	yes
Control Sample	6698351	Dec 16, 2024	Aluminum	µg/L	303						262 - 373	yes
Control Sample	6698351	Dec 16, 2024	Antimony	µg/L	12.1						10.8 - 13.2	yes
Control Sample	6698351	Dec 16, 2024	Arsenic	µg/L	11.6						10.4 - 12.8	yes
Control Sample	6698351	Dec 16, 2024	Barium	µg/L	59						54 - 68	yes
Control Sample	6698351	Dec 16, 2024	Beryllium	µg/L	5.9						5.3 - 6.5	yes
Control Sample	6698351	Dec 16, 2024	Bismuth	µg/L	30.0						26.2 - 35.8	yes
Control Sample	6698351	Dec 16, 2024	Boron	µg/L	121						102 - 139	yes
Control Sample	6698351	Dec 16, 2024	Cadmium	µg/L	0.63						0.543 - 0.675	yes
Control Sample	6698351	Dec 16, 2024	Chromium	µg/L	30.4						26.5 - 33.7	yes
Control Sample	6698351	Dec 16, 2024	Cobalt	µg/L	6.1						5.2 - 6.8	yes
Control Sample	6698351	Dec 16, 2024	Copper	µg/L	60						53 - 67	yes
Control Sample	6698351	Dec 16, 2024	Lead	µg/L	6.0						5.2 - 7.1	yes
Control Sample	6698351	Dec 16, 2024	Lithium	µg/L	59						54 - 66	yes
Control Sample	6698351	Dec 16, 2024	Molybdenum	µg/L	60						56 - 66	yes
Control Sample	6698351	Dec 16, 2024	Nickel	µg/L	30.6						27.6 - 32.8	yes
Control Sample	6698351	Dec 16, 2024	Selenium	µg/L	11.7						9.7 - 12.7	yes
Control Sample	6698351	Dec 16, 2024	Silver	µg/L	6.18						5.39 - 7.13	yes
Control Sample	6698351	Dec 16, 2024	Strontium	µg/L	61						56 - 66	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Control Sample	6698351	Dec 16, 2024	Thallium	µg/L	3.04						2.69 - 3.35	yes
Control Sample	6698351	Dec 16, 2024	Tin	µg/L	61						56 - 67	yes
Control Sample	6698351	Dec 16, 2024	Titanium	µg/L	31.4						26.6 - 35.7	yes
Control Sample	6698351	Dec 16, 2024	Uranium	µg/L	31.0						25.7 - 36.3	yes
Control Sample	6698351	Dec 16, 2024	Vanadium	µg/L	6.2						5.1 - 7.2	yes
Control Sample	6698351	Dec 16, 2024	Zinc	µg/L	56						51 - 63	yes
Control Sample	6698350	Dec 16, 2024	Aluminum	µg/L	996						913 - 1047	yes
Control Sample	6698350	Dec 16, 2024	Antimony	µg/L	41.4						37.5 - 43.1	yes
Control Sample	6698350	Dec 16, 2024	Arsenic	µg/L	40.0						36.5 - 43.5	yes
Control Sample	6698350	Dec 16, 2024	Barium	µg/L	197						183 - 212	yes
Control Sample	6698350	Dec 16, 2024	Beryllium	µg/L	19.3						17.1 - 21.9	yes
Control Sample	6698350	Dec 16, 2024	Bismuth	µg/L	97.7						88.1 - 107.9	yes
Control Sample	6698350	Dec 16, 2024	Boron	µg/L	388						343 - 436	yes
Control Sample	6698350	Dec 16, 2024	Cadmium	µg/L	2.10						1.91 - 2.21	yes
Control Sample	6698350	Dec 16, 2024	Chromium	µg/L	99.2						90 - 110	yes
Control Sample	6698350	Dec 16, 2024	Cobalt	µg/L	19.9						18.1 - 21.7	yes
Control Sample	6698350	Dec 16, 2024	Copper	µg/L	197						188 - 212	yes
Control Sample	6698350	Dec 16, 2024	Lead	µg/L	19.8						18.5 - 21.5	yes
Control Sample	6698350	Dec 16, 2024	Lithium	µg/L	197						173 - 222	yes
Control Sample	6698350	Dec 16, 2024	Molybdenum	µg/L	201						182 - 218	yes
Control Sample	6698350	Dec 16, 2024	Nickel	µg/L	99.5						90 - 110	yes
Control Sample	6698350	Dec 16, 2024	Selenium	µg/L	39.7						36.7 - 43.3	yes
Control Sample	6698350	Dec 16, 2024	Silver	µg/L	20.3						18 - 22	yes
Control Sample	6698350	Dec 16, 2024	Strontium	µg/L	203						171 - 231	yes
Control Sample	6698350	Dec 16, 2024	Thallium	µg/L	10.2						9.01 - 10.99	yes
Control Sample	6698350	Dec 16, 2024	Tin	µg/L	205						185 - 215	yes
Control Sample	6698350	Dec 16, 2024	Titanium	µg/L	103						93.2 - 107	yes
Control Sample	6698350	Dec 16, 2024	Uranium	µg/L	101						90.2 - 109	yes
Control Sample	6698350	Dec 16, 2024	Vanadium	µg/L	19.9						18.7 - 21.1	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Control Sample	6698350	Dec 16, 2024	Zinc	µg/L	196						183 - 218	yes
Control Sample	6698349	Dec 16, 2024	Aluminum	µg/L	297						268 - 328	yes
Control Sample	6698349	Dec 16, 2024	Antimony	µg/L	12.0						10.8 - 13.2	yes
Control Sample	6698349	Dec 16, 2024	Arsenic	µg/L	11.8						10.8 - 13.2	yes
Control Sample	6698349	Dec 16, 2024	Barium	µg/L	57						54 - 66	yes
Control Sample	6698349	Dec 16, 2024	Beryllium	µg/L	6.0						5.5 - 6.7	yes
Control Sample	6698349	Dec 16, 2024	Bismuth	µg/L	28.6						27.1 - 33.1	yes
Control Sample	6698349	Dec 16, 2024	Boron	µg/L	115						108 - 130	yes
Control Sample	6698349	Dec 16, 2024	Cadmium	µg/L	0.62						0.557 - 0.683	yes
Control Sample	6698349	Dec 16, 2024	Chromium	µg/L	29.6						28.1 - 31.9	yes
Control Sample	6698349	Dec 16, 2024	Cobalt	µg/L	6.0						5.7 - 6.4	yes
Control Sample	6698349	Dec 16, 2024	Copper	µg/L	59						54 - 66	yes
Control Sample	6698349	Dec 16, 2024	Lead	µg/L	5.7						5.4 - 6.6	yes
Control Sample	6698349	Dec 16, 2024	Lithium	µg/L	59						54 - 66	yes
Control Sample	6698349	Dec 16, 2024	Molybdenum	µg/L	58						53 - 64	yes
Control Sample	6698349	Dec 16, 2024	Nickel	µg/L	29.9						28.8 - 32.4	yes
Control Sample	6698349	Dec 16, 2024	Selenium	µg/L	11.9						11.3 - 13.1	yes
Control Sample	6698349	Dec 16, 2024	Silver	µg/L	6.05						5.76 - 6.36	yes
Control Sample	6698349	Dec 16, 2024	Strontium	µg/L	60						57 - 64	yes
Control Sample	6698349	Dec 16, 2024	Thallium	µg/L	2.89						2.61 - 3.51	yes
Control Sample	6698349	Dec 16, 2024	Tin	µg/L	59						56 - 64	yes
Control Sample	6698349	Dec 16, 2024	Titanium	µg/L	30.5						26.9 - 32.9	yes
Control Sample	6698349	Dec 16, 2024	Uranium	µg/L	29.4						27 - 33	yes
Control Sample	6698349	Dec 16, 2024	Vanadium	µg/L	5.9						5.6 - 6.4	yes
Control Sample	6698349	Dec 16, 2024	Zinc	µg/L	58						54 - 66	yes
Control Sample	6698348	Dec 16, 2024	Aluminum	µg/L	47						46 - 55	yes
Control Sample	6698348	Dec 16, 2024	Antimony	µg/L	2.0						1.8 - 2.1	yes
Control Sample	6698348	Dec 16, 2024	Arsenic	µg/L	2.0						1.8 - 2.1	yes
Control Sample	6698348	Dec 16, 2024	Barium	µg/L	10						9 - 11	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Control Sample	6698348	Dec 16, 2024	Beryllium	µg/L	1.0						0.8 - 1.1	yes
Control Sample	6698348	Dec 16, 2024	Bismuth	µg/L	4.6						4.6 - 5.5	yes
Control Sample	6698348	Dec 16, 2024	Boron	µg/L	20						18 - 22	yes
Control Sample	6698348	Dec 16, 2024	Cadmium	µg/L	0.09						0.087 - 0.117	yes
Control Sample	6698348	Dec 16, 2024	Chromium	µg/L	5.0						4.7 - 5.4	yes
Control Sample	6698348	Dec 16, 2024	Cobalt	µg/L	1.0						0.9 - 1.1	yes
Control Sample	6698348	Dec 16, 2024	Copper	µg/L	10						9 - 11	yes
Control Sample	6698348	Dec 16, 2024	Lead	µg/L	0.9						0.9 - 1.1	yes
Control Sample	6698348	Dec 16, 2024	Lithium	µg/L	10						9 - 11	yes
Control Sample	6698348	Dec 16, 2024	Molybdenum	µg/L	10						9 - 11	yes
Control Sample	6698348	Dec 16, 2024	Nickel	µg/L	5.0						4.8 - 5.4	yes
Control Sample	6698348	Dec 16, 2024	Selenium	µg/L	1.9						1.8 - 2.2	yes
Control Sample	6698348	Dec 16, 2024	Silver	µg/L	1.00						0.97 - 1.07	yes
Control Sample	6698348	Dec 16, 2024	Strontium	µg/L	11						9 - 11	yes
Control Sample	6698348	Dec 16, 2024	Thallium	µg/L	0.46						0.44 - 0.56	yes
Control Sample	6698348	Dec 16, 2024	Tin	µg/L	10						9 - 11	yes
Control Sample	6698348	Dec 16, 2024	Titanium	µg/L	5.4						4.4 - 5.5	yes
Control Sample	6698348	Dec 16, 2024	Uranium	µg/L	4.6						4.6 - 5.4	yes
Control Sample	6698348	Dec 16, 2024	Vanadium	µg/L	1.1						0.9 - 1.1	yes
Control Sample	6698348	Dec 16, 2024	Zinc	µg/L	10						9 - 11	yes
Replicate	6698353	Dec 16, 2024	Aluminum	µg/L	127			129		1.11	15 % or 11 Abs	yes
Replicate	6698353	Dec 16, 2024	Antimony	µg/L	0.3			<0.2		38.86	15 % or 0.44 Abs	yes
Replicate	6698353	Dec 16, 2024	Arsenic	µg/L	<0.2			<0.2		0	15 % or 0.44 Abs	yes
Replicate	6698353	Dec 16, 2024	Barium	µg/L	9			9		0.68	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Beryllium	µg/L	<0.1			<0.1		0	15 % or 0.22 Abs	yes
Replicate	6698353	Dec 16, 2024	Bismuth	µg/L	<0.5			<0.5		0	15 % or 1.1 Abs	yes
Replicate	6698353	Dec 16, 2024	Boron	µg/L	2			4		64.22	15 % or 4.4 Abs	yes
Replicate	6698353	Dec 16, 2024	Cadmium	µg/L	0.03			0.03		1.55	15 % or 0.022 Abs	yes
Replicate	6698353	Dec 16, 2024	Chromium	µg/L	0.6			0.5		17.21	15 % or 1.1 Abs	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Replicate	6698353	Dec 16, 2024	Cobalt	µg/L	0.1			0.1		2.68	15 % or 0.22 Abs	yes
Replicate	6698353	Dec 16, 2024	Copper	µg/L	<1			<1		0	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Lead	µg/L	<0.1			<0.1		0	15 % or 0.22 Abs	yes
Replicate	6698353	Dec 16, 2024	Lithium	µg/L	<1			<1		0	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Molybdenum	µg/L	<1			<1		0	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Nickel	µg/L	<1.0			<1.0		0	15 % or 1.1 Abs	yes
Replicate	6698353	Dec 16, 2024	Selenium	µg/L	<0.2			<0.2		0	15 % or 0.44 Abs	yes
Replicate	6698353	Dec 16, 2024	Silver	µg/L	<0.01			<0.01		0	15 % or 0.22 Abs	yes
Replicate	6698353	Dec 16, 2024	Strontium	µg/L	<1			<1		0	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Thallium	µg/L	<0.05			<0.05		0	15 % or 0.11 Abs	yes
Replicate	6698353	Dec 16, 2024	Tin	µg/L	<1			<1		0	15 % or 2.2 Abs	yes
Replicate	6698353	Dec 16, 2024	Titanium	µg/L	2.4			2.4		2.08	15 % or 1.1 Abs	yes
Replicate	6698353	Dec 16, 2024	Uranium	µg/L	<0.5			<0.5		0	15 % or 1.1 Abs	yes
Replicate	6698353	Dec 16, 2024	Vanadium	µg/L	<0.1			<0.1		0	15 % or 0.22 Abs	yes
Replicate	6698353	Dec 16, 2024	Zinc	µg/L	<4			<4		0	15 % or 2.2 Abs	yes

Batch: 2534465 - Metals Trace (Total) in water

Blank	6698361	Dec 16, 2024	Calcium	mg/L	<0.2	0.2	0.0				0.1	yes
Blank	6698361	Dec 16, 2024	Iron	mg/L	<0.05	0.05	0.0				0.02	yes
Blank	6698361	Dec 16, 2024	Magnesium	mg/L	<0.2	0.2	0.0				0.04	yes
Blank	6698361	Dec 16, 2024	Manganese	mg/L	<0.005	0.005	0.0				0.005	yes
Blank	6698361	Dec 16, 2024	Potassium	mg/L	<0.4	0.4	0.0				0.2	yes
Blank	6698361	Dec 16, 2024	Silicon	mg/L	<0.05	0.05	0.0				0.04	yes
Blank	6698361	Dec 16, 2024	Sodium	mg/L	<0.4	0.4	0.0				0.4	yes
Blank	6698361	Dec 16, 2024	Sulfur	mg/L	<0.3	0.3	0.0				0.2	yes
Control Sample	6698360	Dec 16, 2024	Calcium	mg/L	52.5						46.9 - 55.9	yes
Control Sample	6698360	Dec 16, 2024	Iron	mg/L	2.11						1.89 - 2.19	yes
Control Sample	6698360	Dec 16, 2024	Magnesium	mg/L	20.9						18.55 - 21.85	yes
Control Sample	6698360	Dec 16, 2024	Manganese	mg/L	0.522						0.452 - 0.548	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Control Sample	6698360	Dec 16, 2024	Potassium	mg/L	52.5						47.1 - 54.9	yes
Control Sample	6698360	Dec 16, 2024	Silicon	mg/L	2.07						1.89 - 2.19	yes
Control Sample	6698360	Dec 16, 2024	Sodium	mg/L	52.2						46.9 - 54.7	yes
Control Sample	6698360	Dec 16, 2024	Sulfur	mg/L	10.4						9.3 - 10.9	yes
Control Sample	6698359	Dec 16, 2024	Calcium	mg/L	250						231.3 - 258.9	yes
Control Sample	6698359	Dec 16, 2024	Iron	mg/L	10.00						9.25 - 10.45	yes
Control Sample	6698359	Dec 16, 2024	Magnesium	mg/L	102						93.3 - 105.3	yes
Control Sample	6698359	Dec 16, 2024	Manganese	mg/L	2.46						2.25 - 2.61	yes
Control Sample	6698359	Dec 16, 2024	Potassium	mg/L	257						239.5 - 264.7	yes
Control Sample	6698359	Dec 16, 2024	Silicon	mg/L	10.1						9.13 - 10.93	yes
Control Sample	6698359	Dec 16, 2024	Sodium	mg/L	255						228.8 - 269.4	yes
Control Sample	6698359	Dec 16, 2024	Sulfur	mg/L	154						140.7 - 161.7	yes
Control Sample	6698358	Dec 16, 2024	Calcium	mg/L	49.2						46.5 - 56.5	yes
Control Sample	6698358	Dec 16, 2024	Iron	mg/L	1.99						1.82 - 2.18	yes
Control Sample	6698358	Dec 16, 2024	Magnesium	mg/L	19.8						18.05 - 22.07	yes
Control Sample	6698358	Dec 16, 2024	Manganese	mg/L	0.495						0.447 - 0.549	yes
Control Sample	6698358	Dec 16, 2024	Potassium	mg/L	49.6						45.4 - 55.5	yes
Control Sample	6698358	Dec 16, 2024	Silicon	mg/L	1.97						1.9 - 2.1	yes
Control Sample	6698358	Dec 16, 2024	Sodium	mg/L	49.6						45.3 - 54.3	yes
Control Sample	6698358	Dec 16, 2024	Sulfur	mg/L	9.9						9 - 10.8	yes
Control Sample	6698357	Dec 16, 2024	Calcium	mg/L	4.8						4.8 - 5.4	yes
Control Sample	6698357	Dec 16, 2024	Iron	mg/L	0.20						0.19 - 0.22	yes
Control Sample	6698357	Dec 16, 2024	Magnesium	mg/L	2.0						1.89 - 2.25	yes
Control Sample	6698357	Dec 16, 2024	Manganese	mg/L	0.049						0.044 - 0.056	yes
Control Sample	6698357	Dec 16, 2024	Potassium	mg/L	4.8						4.6 - 5.3	yes
Control Sample	6698357	Dec 16, 2024	Silicon	mg/L	0.19						0.17 - 0.23	yes
Control Sample	6698357	Dec 16, 2024	Sodium	mg/L	4.9						4.7 - 5.4	yes
Control Sample	6698357	Dec 16, 2024	Sulfur	mg/L	2.9						2.7 - 3.2	yes
Replicate	6698362	Dec 16, 2024	Calcium	mg/L	1.0			1.0		0.63	15 % or 0.6 Abs	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
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Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Metals Total - Continued												
Replicate	6698362	Dec 16, 2024	Iron	mg/L	<0.05			<0.05		0	15 % or 0.2 Abs	yes
Replicate	6698362	Dec 16, 2024	Magnesium	mg/L	0.2			0.2		0.42	15 % or 0.4 Abs	yes
Replicate	6698362	Dec 16, 2024	Manganese	mg/L	<0.005			<0.005		0	15 % or 0.01 Abs	yes
Replicate	6698362	Dec 16, 2024	Potassium	mg/L	<0.4			<0.4		0	15 % or 1.2 Abs	yes
Replicate	6698362	Dec 16, 2024	Silicon	mg/L	4.51			4.54		0.78	15 % or 0.1 Abs	yes
Replicate	6698362	Dec 16, 2024	Sodium	mg/L	1.5			1.5		0.47	15 % or 1.2 Abs	yes
Replicate	6698362	Dec 16, 2024	Sulfur	mg/L	<0.3			<0.3		0	15 % or 0.1 Abs	yes

Physical and Aggregate Properties

Batch: 2534434 - Colour (Apparent) in water

Control Sample	6698250	Dec 16, 2024	Colour	Colour units	10						10 - 10	yes
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Batch: 2534433 - Turbidity in Water

Blank	6698234	Dec 16, 2024	Turbidity	NTU	<0.1	0.1					0.1	yes
Blank	6698233	Dec 16, 2024	Turbidity	NTU	0.1	0.1					0.1	yes
Control Sample	6698238	Dec 16, 2024	Turbidity	NTU	1960						1847.5 - 2041.9	yes
Control Sample	6698239	Dec 16, 2024	Turbidity	NTU	4620						4441.7 - 6661.7	yes
Control Sample	6698237	Dec 16, 2024	Turbidity	NTU	145						132.1 - 162.1	yes
Control Sample	6698236	Dec 16, 2024	Turbidity	NTU	14.5						12.6 - 15.6	yes
Control Sample	6698235	Dec 16, 2024	Turbidity	NTU	1.7						1 - 2.2	yes
Replicate	6698241	Dec 16, 2024	Turbidity	NTU	698			695		0.43	10 % or 0.2 Abs	yes

Routine Water

Batch: 2533114 - Alkalinity, pH, and EC in water

Control Sample	6694836	Dec 12, 2024	Electrical Conductivity	dS/m	33.2						27.2 - 36.8	yes
Control Sample	6694829	Dec 12, 2024	pH		9.23						8.9 - 9.44	yes
Control Sample	6694829	Dec 12, 2024	Temp. of observed pH	°C	20.5						15.5 - 24.5	yes
Control Sample	6694829	Dec 12, 2024	Electrical Conductivity	dS/m	2.74						2.631 - 2.829	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Routine Water - Continued												
Control Sample	6694829	Dec 12, 2024	P-Alkalinity	mg/L	517						442 - 584	yes
Control Sample	6694829	Dec 12, 2024	T-Alkalinity	mg/L	1010						958 - 1059	yes
Control Sample	6694830	Dec 12, 2024	pH		6.91						6.75 - 7.05	yes
Control Sample	6694830	Dec 12, 2024	Temp. of observed pH	°C	20.4						15.5 - 24.5	yes
Control Sample	6694830	Dec 12, 2024	Electrical Conductivity	dS/m	0.077						0.069 - 0.085	yes
Control Sample	6694830	Dec 12, 2024	P-Alkalinity	mg/L	52						28 - 73	yes
Control Sample	6694830	Dec 12, 2024	T-Alkalinity	mg/L	128						115 - 140	yes
Replicate	6694833	Dec 12, 2024	pH		10.4			10.5		0.13	0 % or 0.1 Abs	yes
Replicate	6694833	Dec 12, 2024	Electrical Conductivity	dS/m	48.8			48.3		1.03	10 % or 0.002 Abs	yes
Replicate	6694833	Dec 12, 2024	Hydroxide	mg/L	110			110		3.03	10 %	yes
Replicate	6694833	Dec 12, 2024	Carbonate	mg/L	560			560		0.07	10 % or 6 Abs	yes
Replicate	6694833	Dec 12, 2024	Bicarbonate	mg/L	<5			<5		0	10 % or 6 Abs	yes
Replicate	6694833	Dec 12, 2024	P-Alkalinity	mg/L	793			803		1.3	10 % or 5 Abs	yes
Replicate	6694833	Dec 12, 2024	T-Alkalinity	mg/L	1260			1270		0.84	10 % or 5 Abs	yes

Batch: 2533472 - Anions (Routine) by Ion Chromatography

Blank	6695753	Dec 13, 2024	Fluoride	mg/L	<0.05	0.05	0.0				0.05	yes
Blank	6695753	Dec 13, 2024	Nitrate - N	mg/L	<0.01	0.01	0.0				0.01	yes
Blank	6695753	Dec 13, 2024	Nitrite - N	mg/L	<0.005	0.005	0.0				0.005	yes
Control Sample	6695756	Dec 13, 2024	Fluoride	mg/L	10.1						9.39 - 10.59	yes
Control Sample	6695756	Dec 13, 2024	Nitrate - N	mg/L	10.1						9.03 - 11.13	yes
Control Sample	6695756	Dec 13, 2024	Nitrite - N	mg/L	9.88						9.01 - 10.99	yes
Control Sample	6695756	Dec 13, 2024	Nitrate and Nitrite - N	mg/L	19.9						19.1 - 20.9	yes
Control Sample	6695757	Dec 13, 2024	Fluoride	mg/L	4.94						4.58 - 5.24	yes
Control Sample	6695757	Dec 13, 2024	Nitrate - N	mg/L	4.84						4.37 - 5.33	yes
Control Sample	6695757	Dec 13, 2024	Nitrite - N	mg/L	4.74						4.37 - 5.33	yes
Control Sample	6695757	Dec 13, 2024	Nitrate and Nitrite - N	mg/L	9.57						8.8 - 10.6	yes
Control Sample	6695758	Dec 13, 2024	Fluoride	mg/L	0.50						0.45 - 0.57	yes
Control Sample	6695758	Dec 13, 2024	Nitrate - N	mg/L	0.51						0.43 - 0.57	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Routine Water - Continued												
Control Sample	6695758	Dec 13, 2024	Nitrite - N	mg/L	0.516						0.455 - 0.557	yes
Control Sample	6695758	Dec 13, 2024	Nitrate and Nitrite - N	mg/L	1.03						0.85 - 1.15	yes
Replicate	6695759	Dec 13, 2024	Nitrate - N	mg/L	0.01			0.01		1.71	10 % or 0.01 Abs	yes
Replicate	6695759	Dec 13, 2024	Nitrite - N	mg/L	<0.005			<0.005		0	10 % or 0.01 Abs	yes
Replicate	6695763	Dec 13, 2024	Fluoride	mg/L	0.11			0.11		2.02	10 % or 0.05 Abs	yes
Batch: 2533518 - Chloride in Water												
Blank	6695889	Dec 13, 2024	Chloride	mg/L	<0.4	0.4	0.0				0.4	yes
Control Sample	6695886	Dec 13, 2024	Chloride	mg/L	1920						1847.4 - 2256	yes
Control Sample	6695887	Dec 13, 2024	Chloride	mg/L	80.2						74.9 - 86.9	yes
Control Sample	6695888	Dec 13, 2024	Chloride	mg/L	15.3						13.3 - 16.5	yes
Replicate	6695885	Dec 13, 2024	Chloride	mg/L	17900			17300		3.53	10 % or 0.5 Abs	yes
Batch: 2533464 - Metals Trace (Dissolved) in water												
Blank	6695722	Dec 13, 2024	Calcium	mg/L	<0.2	0.2	0.0				0.2	yes
Blank	6695722	Dec 13, 2024	Magnesium	mg/L	<0.2	0.2	0.0				0.1	yes
Blank	6695722	Dec 13, 2024	Sodium	mg/L	<0.4	0.4	0.0				0.4	yes
Blank	6695722	Dec 13, 2024	Potassium	mg/L	<0.4	0.4	0.0				0.4	yes
Blank	6695722	Dec 13, 2024	Iron	mg/L	<0.01	0.01	0.0				0.01	yes
Blank	6695722	Dec 13, 2024	Manganese	mg/L	<0.005	0.005	0.0				0.004	yes
Control Sample	6695720	Dec 13, 2024	Calcium	mg/L	250						235.3 - 262.9	yes
Control Sample	6695720	Dec 13, 2024	Magnesium	mg/L	100						92.6 - 104.6	yes
Control Sample	6695720	Dec 13, 2024	Sodium	mg/L	250						234.9 - 261.3	yes
Control Sample	6695720	Dec 13, 2024	Potassium	mg/L	252						238.3 - 262.3	yes
Control Sample	6695720	Dec 13, 2024	Iron	mg/L	9.77						8.89 - 10.69	yes
Control Sample	6695720	Dec 13, 2024	Manganese	mg/L	2.39						2.2 - 2.68	yes
Control Sample	6695719	Dec 13, 2024	Calcium	mg/L	50.8						44.9 - 56.9	yes
Control Sample	6695719	Dec 13, 2024	Magnesium	mg/L	20.1						17.9 - 22	yes
Control Sample	6695719	Dec 13, 2024	Sodium	mg/L	50.3						47.3 - 52.7	yes
Control Sample	6695719	Dec 13, 2024	Potassium	mg/L	50.5						45.8 - 55.8	yes

Quality Control

Bill To: Flagstaff County
358
12435 Twp Rd 442
Sedgewick, AB, Canada
T0B 4C0
Attn: Nick Dunn
Sampled By: Nick Dunn
Company: Flagstaff County

Project ID:
Project Name: Annual Tank Loader Test
P.O.:
Proj. Acct. code:

Lot ID: **1783311**
Control Number:
Date Received: Dec 12, 2024
Date Reported: Dec 17, 2024
Report Number: 3089193
Report Type: Final Report

Sample Type	Sample ID	Analysis Date	Analyte	Units	Result	RDL	SPK Value	Ref Value	%REC	RPD	Limits	Passed
Routine Water - Continued												
Control Sample	6695719	Dec 13, 2024	Iron	mg/L	1.99						1.89 - 2.11	yes
Control Sample	6695719	Dec 13, 2024	Manganese	mg/L	0.492						0.464 - 0.536	yes
Control Sample	6695718	Dec 13, 2024	Calcium	mg/L	5.0						4.7 - 5.4	yes
Control Sample	6695718	Dec 13, 2024	Magnesium	mg/L	2.0						1.9 - 2.2	yes
Control Sample	6695718	Dec 13, 2024	Sodium	mg/L	5.0						4.7 - 5.7	yes
Control Sample	6695718	Dec 13, 2024	Potassium	mg/L	4.8						4.6 - 5.6	yes
Control Sample	6695718	Dec 13, 2024	Iron	mg/L	0.20						0.18 - 0.22	yes
Control Sample	6695718	Dec 13, 2024	Manganese	mg/L	0.048						0.047 - 0.057	yes
Replicate	6695724	Dec 13, 2024	Calcium	mg/L	<10			<10		0	10 % or 0.6 Abs	yes
Replicate	6695724	Dec 13, 2024	Magnesium	mg/L	<10			<10		0	10 % or 0.7 Abs	yes
Replicate	6695724	Dec 13, 2024	Sodium	mg/L	13300			13600		2.15	10 % or 1.2 Abs	yes
Replicate	6695724	Dec 13, 2024	Potassium	mg/L	220			230		2.96	10 % or 1.2 Abs	yes
Replicate	6695724	Dec 13, 2024	Iron	mg/L	<0.5			<0.5		0	10 % or 0.05 Abs	yes
Replicate	6695724	Dec 13, 2024	Manganese	mg/L	<0.2			<0.2		0	10 % or 0.01 Abs	yes

SPK Value = Spike Value
Ref Value = Reference Value

%REC = Percent Recovery
RPD = Relative Percent Difference

Abs = Absolute Difference

Methodology and Notes

Bill To: Flagstaff County 358 12435 Twp Rd 442 Sedgewick, AB, Canada T0B 4C0	Project ID: Project Name: Annual Tank Loader Test Project Location: LSD: P.O.:	Lot ID: 1783311 Control Number: Date Received: Dec 12, 2024 Date Reported: Dec 17, 2024 Report Number: 3089193 Report Type: Final Report
Attn: Nick Dunn Sampled By: Nick Dunn Company: Flagstaff County	Proj. Acct. code:	

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Alkalinity - Titration Method, 2320 B	Dec 12, 2024	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	* Conductivity, 2510 B	Dec 12, 2024	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	* pH - Electrometric Method, 4500-H+ B	Dec 12, 2024	Element Edmonton - Roper Road
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Dec 13, 2024	Element Edmonton - Roper Road
Approval-Edmonton	APHA	Checking Correctness of Analyses, 1030 E	Dec 16, 2024	Element Edmonton - Roper Road
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	Dec 13, 2024	Element Edmonton - Roper Road
Colour (Apparent) in water	APHA	* Visual Comparison Method, 2120 B	Dec 16, 2024	Element Edmonton - Roper Road
Mercury (Total) in water	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Dec 12, 2024	Element Edmonton - Roper Road
Metals ICP-MS (Total) in water	APHA/USEPA	* Metals By Inductively Coupled Plasma/Mass Spectrometry, APHA 3125 B / USEPA 200.2, 200.8	Dec 13, 2024	Element Edmonton - Roper Road
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Dec 13, 2024	Element Edmonton - Roper Road
Metals Trace (Dissolved) in water	APHA	Hardness by Calculation, 2340 B	Dec 13, 2024	Element Edmonton - Roper Road
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	Dec 13, 2024	Element Edmonton - Roper Road
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	Dec 13, 2024	Element Edmonton - Roper Road
Turbidity in Water	APHA	* Turbidity - Nephelometric Method, 2130 B	Dec 16, 2024	Element Edmonton - Roper Road

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
APHA/USEPA	Standard Methods For Water/ Environmental Protection Agency
EPA	Environmental Protection Agency Test Methods - US
US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, August 2024
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

Methodology and Notes

Bill To: Flagstaff County	Project ID:	Lot ID: 1783311
358	Project Name: Annual Tank Loader Test	Control Number:
12435 Twp Rd 442	Project Location:	Date Received: Dec 12, 2024
Sedgewick, AB, Canada	LSD:	Date Reported: Dec 17, 2024
T0B 4C0	P.O.:	Report Number: 3089193
Attn: Nick Dunn	Proj. Acct. code:	Report Type: Final Report
Sampled By: Nick Dunn		
Company: Flagstaff County		

Comments:

- Some total metal results were less than dissolved metal results for sample 3/4. The results were verified and are within expected measurement uncertainty.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

