



Analytical Report

Bill To: County of Vermilion River #24	Project:	Lot ID: 994917
Report To: County of Vermilion River #24	ID: Annual Samples	Control Number: B028028
Box 69	Name:	Date Received: Apr 1, 2014
Kitscoty, AB, Canada	Location:	Date Reported: Apr 7, 2014
T0B 2P0	LSD:	Report Number: 1906313
Attn: Darrell Stefanick	P.O.:	
Sampled By: Cory Cote	Acct code:	
Company: County Of Vermilion River		

Reference Number 994917-1
Sample Date March 30, 2014
Sample Time 11:00
Sample Location
Sample Description Blackfoot W.T.P.
Sample Matrix Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	1.36	0.05		
Sulfide	Total mg/L	<0.002	0.002	0.05	Below AO
Organic Carbon	Total Nonpurgeable mg/L	5.3	0.5		
Chlorine	Total mg/L	1.2	0.1		
Chlorine	Free mg/L	0.2	0.1		
Chloramine	mg/L	0.9	0.2	3	Below MAC
Cyanide	Dissolved mg/L	<0.002	0.002	0.2	Below MAC
Bromate	Dissolved mg/L	<0.01	0.01	0.01	Below MAC
Hydrogen Sulfide	Calculated mg/L	<0.002			
Metals Dissolved					
Silicon	Dissolved mg/L	6.61	0.05		
Sulfur	Dissolved mg/L	82.2	0.3		
Mercury	Dissolved mg/L	<0.00001	0.00001		Below MAC
Aluminum	Dissolved mg/L	<0.002	0.002	0.1	Below OG
Antimony	Dissolved mg/L	<0.0002	0.0002	0.006	Below MAC
Arsenic	Dissolved mg/L	0.0041	0.0002	0.01	Below MAC
Barium	Dissolved mg/L	0.009	0.001	1	Below MAC
Beryllium	Dissolved mg/L	<0.0001	0.0001		
Bismuth	Dissolved mg/L	<0.0005	0.0005		
Boron	Dissolved mg/L	0.456	0.002	5	Below MAC
Cadmium	Dissolved mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Dissolved mg/L	<0.0005	0.0005	0.05	Below MAC
Cobalt	Dissolved mg/L	<0.0001	0.0001		
Copper	Dissolved mg/L	0.104	0.001	1	Below AO
Lead	Dissolved mg/L	<0.0001	0.0001	0.01	Below MAC
Lithium	Dissolved mg/L	0.059	0.001		
Molybdenum	Dissolved mg/L	0.005	0.001		
Nickel	Dissolved mg/L	<0.0005	0.0005		
Selenium	Dissolved mg/L	<0.0002	0.0002	0.01	Below MAC
Silver	Dissolved mg/L	0.000010	0.00001		
Strontium	Dissolved mg/L	0.778	0.001		
Thallium	Dissolved mg/L	<0.00005	0.00005		
Tin	Dissolved mg/L	<0.001	0.001		
Titanium	Dissolved mg/L	<0.0005	0.0005		
Uranium	Dissolved mg/L	<0.0005	0.0005	0.02	Below MAC
Vanadium	Dissolved mg/L	<0.0001	0.0001		



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Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Metals Dissolved - Continued						
Zinc	Dissolved	mg/L	0.004	0.001	5	Below AO
Subsample	Field Filtered	Lab Filtered				
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	5	5	15	Below AO
Turbidity		NTU	0.5	0.1	0.1	Above OG
Routine Water						
pH			8.06		6.5 - 8.5	Within AO
Temperature of observed pH		°C	16.8			
Electrical Conductivity		µS/cm at 25 C	1400	1		
Calcium	Dissolved	mg/L	68.7	0.2		
Magnesium	Dissolved	mg/L	20.4	0.2		
Sodium	Dissolved	mg/L	226	0.4	200	Above AO
Potassium	Dissolved	mg/L	4.0	0.4		
Iron	Dissolved	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved	mg/L	<0.005	0.005	0.05	Below AO
Chloride	Dissolved	mg/L	14.4	0.4	250	Below AO
Fluoride		mg/L	0.28	0.05	1.5	Below MAC
Nitrate - N		mg/L	0.02	0.01	10	Below MAC
Nitrite - N		mg/L	0.007	0.005	1	Below MAC
Nitrate and Nitrite - N		mg/L	0.03	0.01	10	Below MAC
Sulfate (SO4)	Dissolved	mg/L	247	0.9	500	Below AO
Hydroxide		mg/L	<5	5		
Carbonate		mg/L	<6	6		
Bicarbonate		mg/L	630	5		
P-Alkalinity	as CaCO3	mg/L	<5	5		
T-Alkalinity	as CaCO3	mg/L	517	5		
Total Dissolved Solids	Calculated	mg/L	892	1	500	Above AO
Hardness	Dissolved as CaCO3	mg/L	256			
Ionic Balance	Dissolved	%	95			