

**ANALYTICAL REPORT**

Regional District of Kitimat Stikine  
300 - 4545 Lazelle Avenue  
Terrace, BC V8G 4E1  
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**Work Order:** N701105

**RECEIVED:** 18-Jan-17

Project: Pumphouses  
Project Number: -  
Project Manager: Roger Tooms

**REPORTED:** 07-Feb-17

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

**Northern Laboratories (2010) Ltd.**



**Jesse Newton**  
Laboratory Manager

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LAB #			N701105-01	N701105-02
SAMPLED DATE			17-Jan-17	17-Jan-17
SAMPLED TIME			09:20	09:35
SAMPLE ID			Pumphouse #1	Pumphouse #2
	MRL	Units	CDWG	
<b>Anions (Water)</b>				
Chloride	1.0	mg/L	AO <= 250	<b>1.4</b> <b>4.3</b>
Fluoride	0.05	mg/L	MAC = 1.5	<0.10      <0.10
Nitrite (as N)	0.01	mg/L	MAC = 1	<0.01      <0.01
Nitrate + Nitrite (as N)	0.10	mg/L	MAC = 10	<b>0.60</b> <b>1.9</b>
Sulfate	1.0	mg/L	AO <= 500	<b>2.3</b> <b>4.7</b>
<b>General Parameters (Water)</b>				
pH	1.0	pH units	6.5-8.5	<b>7.2</b> <b>7.8</b>
Alkalinity (total, as CaCO <sub>3</sub> )	1	mg/L	-	<b>66</b> <b>93</b>
Conductivity	1.0	uS/cm	-	<b>138</b> <b>210</b>
Colour	1	PtCo units	AO <= 15	<b>7</b> <b>1</b>
Turbidity	0.05	NTU	MAC = 1	<b>0.24</b> <b>0.21</b>
Solids, Total Dissolved / TDS	1.0	mg/L	AO <= 500	<b>79</b> <b>120</b>
Ammonia (total as N)	0.03	mg/L	-	<0.03      <0.03
<b>Calculated Parameters (Water)</b>				
Nitrate (as N)	1.0	mg/L	MAC = 10	<b>1.9</b>
Nitrate (as N)	0.50	mg/L	MAC = 10	<b>0.60</b>
Hardness, Total (as CaCO <sub>3</sub> )	0.50	mg/L	-	<b>63.4</b> <b>94.0</b>
<b>Total Metals (Water)</b>				
Aluminum, total	0.005	mg/L	OG < 0.1	<0.005      <0.005
Antimony, total	0.0001	mg/L	MAC = 0.006	<0.0001      <0.0001
Arsenic, total	0.0005	mg/L	MAC = 0.01	<0.0005 <b>0.0008</b>
Barium, total	0.005	mg/L	MAC = 1	<b>0.012</b> <b>0.025</b>
Beryllium, total	0.0001	mg/L	-	<0.0001      <0.0001
Bismuth, total	0.0001	mg/L	-	<0.0001      <0.0001
Boron, total	0.004	mg/L	MAC = 5	<b>0.007</b> <b>0.012</b>
Cadmium, total	0.00001	mg/L	MAC = 0.005	<0.00001      <0.00001
Calcium, total	0.2	mg/L	-	<b>22.8</b> <b>33.5</b>
Chromium, total	0.0005	mg/L	MAC = 0.05	<b>0.0005</b> <0.0005
Cobalt, total	0.00005	mg/L	-	<0.00005      <0.00005
Copper, total	0.0002	mg/L	AO <= 1	<b>0.0025</b> <b>0.0008</b>
Iron, total	0.01	mg/L	AO <= 0.3	<0.01      <0.01
Lead, total	0.0001	mg/L	MAC = 0.01	<b>0.0001</b> <0.0001
Lithium, total	0.0001	mg/L	-	<b>0.0004</b> <b>0.0009</b>
Magnesium, total	0.01	mg/L	-	<b>1.55</b> <b>2.53</b>
Manganese, total	0.0002	mg/L	AO <= 0.05	<0.0002      <0.0002

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SAMPLED TIME			09:20	09:35
SAMPLE ID			Pumphouse #1	Pumphouse #2
	MRL Units	CDWG		
<b>Total Metals (continued)</b>				
Mercury, total	0.00002 mg/L	MAC = 0.001	<0.00002	<0.00002
Molybdenum, total	0.0001 mg/L	-	<b>0.0011</b>	<b>0.0007</b>
Nickel, total	0.0002 mg/L	-	<0.0002	<0.0002
Phosphorus, total	0.02 mg/L	-	<0.02	<0.02
Potassium, total	0.02 mg/L	-	<b>0.36</b>	<b>0.67</b>
Selenium, total	0.0005 mg/L	MAC = 0.05	<0.0005	<0.0005
Silicon, total	0.5 mg/L	-	<b>4.9</b>	<b>5.4</b>
Silver, total	0.00005 mg/L	-	<0.00005	<0.00005
Sodium, total	0.02 mg/L	AO <= 200	<b>2.20</b>	<b>4.32</b>
Strontium, total	0.001 mg/L	-	<b>0.070</b>	<b>0.106</b>
Sulfur, total	1 mg/L	-	<1	<1
Tellurium, total	0.0002 mg/L	-	<0.0002	<0.0002
Thallium, total	0.00002 mg/L	-	<0.00002	<0.00002
Thorium, total	0.0001 mg/L	-	<0.0001	<0.0001
Tin, total	0.0002 mg/L	-	<0.0002	<0.0002
Titanium, total	0.005 mg/L	-	<0.005	<0.005
Uranium, total	0.00002 mg/L	MAC = 0.02	<b>0.00006</b>	<b>0.00025</b>
Vanadium, total	0.001 mg/L	-	<0.001	<0.001
Zinc, total	0.004 mg/L	AO <= 5	<b>0.005</b>	<0.004
Zirconium, total	0.0001 mg/L	-	<0.0001	<0.0001




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### Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL)
mg/L	Milligrams per Litre
NTU	Nephelometric Turbidity Units
pH units	pH units
PtCo units	Platinum Colbalt colour units
uS/cm	Micro Siemens per centimeter
	Maximum Acceptable Concentration. Values above MAC are formatted with <b>red</b> text and solid outline.
	Aesthetic Objective (not health related). Values above AO are formatted with a dashed outline.
	Operational guideline (for treated water)

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### Standards / Guidelines Referenced

<b>CDWG</b>	Canadian Drinking Water Quality Guidelines (2014) <a href="http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf">http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf</a>
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