



Town of The Pas - Water Plant
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Date Received: 15-DEC-15
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Client Phone: 204-627-1100

Certificate of Analysis

Lab Work Order #: L1714659
Project P.O. #: 11490
Job Reference: THE PAS PWS - 226.00
C of C Numbers:
Legal Site Desc:

Hua Wo
Chemistry Laboratory Manager

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ANALYTICAL REPORT

Physical Tests (WATER)

		ALS ID		L1714659-1	L1714659-2
		Sampled Date		14-DEC-15	14-DEC-15
		Sampled Time		11:00	11:00
		Sample ID		THE PAS 1-RAW	THE PAS 2-TREATED
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Colour, True	CU	15	-	9.7	<5.0
Conductivity	umhos/cm	-	-	441	454
Hardness (as CaCO3)	mg/L	-	-	209	210
Langelier Index (4 C)	No Unit	-	-	0.14	-0.35
Langelier Index (60 C)	No Unit	-	-	0.91	0.42
pH	pH units	6.5-8.5	-	7.96	7.51
Total Dissolved Solids	mg/L	500	-	291	286
Transmittance, UV (254 nm)	% T	-	-	69.7	86.1
Turbidity	NTU	-	-	8.26	0.20

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2015)

#1: GCDWQ - Aesthetic Objective

#2: GCDWQ - Maximum Acceptable Concentrations (MACs)

Anions and Nutrients (WATER)

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Analyte	Unit	Guide Limit #1	Guide Limit #2		
Alkalinity, Total (as CaCO3)	mg/L	-	-	147	128
Ammonia, Total (as N)	mg/L	-	-	0.021	<0.010
Bicarbonate (HCO3)	mg/L	-	-	180	157
Bromide (Br)	mg/L	-	-	<0.10	<0.10
Carbonate (CO3)	mg/L	-	-	<0.60	<0.60
Chloride (Cl)	mg/L	250	-	10.5	14.1
Fluoride (F)	mg/L	-	1.5	0.137	0.110
Hydroxide (OH)	mg/L	-	-	<0.34	<0.34
Nitrate (as N)	mg/L	-	10	0.0226	0.0251
Nitrite (as N)	mg/L	-	1	<0.0010	<0.0010
Sulfate (SO4)	mg/L	500	-	70.9	83.6

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Organic / Inorganic Carbon (WATER)

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Analyte	Unit	Guide Limit #1	Guide Limit #2		
Dissolved Organic Carbon	mg/L	-	-	8.04	5.88
Total Organic Carbon	mg/L	-	-	7.08	5.03

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Total Metals (WATER)

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Aluminum (Al)-Total	mg/L	0.1	-	0.337	0.0288
Antimony (Sb)-Total	mg/L	-	0.006	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	-	0.01	0.00102	0.00034
Barium (Ba)-Total	mg/L	-	1	0.0758	0.0616
Beryllium (Be)-Total	mg/L	-	-	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L	-	-	<0.00020	<0.00020
Boron (B)-Total	mg/L	-	5	0.034	0.035
Cadmium (Cd)-Total	mg/L	-	0.005	0.000012	<0.000010
Calcium (Ca)-Total	mg/L	-	-	48.3	51.0
Cesium (Cs)-Total	mg/L	-	-	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L	-	0.05	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	-	-	0.00024	<0.00020
Copper (Cu)-Total	mg/L	1	-	0.00219	0.00123
Iron (Fe)-Total	mg/L	0.3	-	0.406	<0.010
Lead (Pb)-Total	mg/L	-	0.01	0.000366	<0.000090
Lithium (Li)-Total	mg/L	-	-	0.0158	0.0158
Magnesium (Mg)-Total	mg/L	-	-	21.4	20.0
Manganese (Mn)-Total	mg/L	0.05	-	0.0287	0.0103
Molybdenum (Mo)-Total	mg/L	-	-	0.00123	0.00126
Nickel (Ni)-Total	mg/L	-	-	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L	-	-	<0.10	<0.10
Potassium (K)-Total	mg/L	-	-	3.02	2.91
Rubidium (Rb)-Total	mg/L	-	-	0.00159	0.00095
Selenium (Se)-Total	mg/L	-	0.05	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	-	-	1.61	0.86
Silver (Ag)-Total	mg/L	-	-	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	200	-	21.1	21.2
Strontium (Sr)-Total	mg/L	-	-	0.336	0.338
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	-	-	<0.00010	<0.00010
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	-	-	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L	-	-	0.0100	<0.00050

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Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.00097	0.00042
Vanadium (V)-Total	mg/L	-	-	0.00111	<0.00020
Zinc (Zn)-Total	mg/L	5	-	0.0052	<0.0020
Zirconium (Zr)-Total	mg/L	-	-	<0.00040	<0.00040

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