

SUPPLEMENTARY GROUNDWATER QUALITY DATA

Table 1: Wabush 3 EIS - Groundwater Quality Baseline
Results from Golder (2012)

Well Name	Units	MAC ¹	AO ²	RDL	W3-13-175 09/07/2013	W3-13-174 09/07/2013	W3-13-174A 09/07/2013	RDL	W3-13-172A 11/07/2013	RDL	W3-13-172 11/07/2013
Anion Sum	mg/L	-	-	N/A	0.750	0.33	0.470	N/A	2.260	N/A	6.590
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	-	1	36	15	16	1	100	1	160
Calculated TDS	mg/L	-	≤500	1	42	20	31	1	114	1	402
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	-	1	ND	ND	ND	1	ND	1	ND
Cation Sum	mg/L	-	-	N/A	0.730	0.32	0.480	N/A	2.360	N/A	6.420
Hardness (CaCO3)	mg/L	NR	NR	1	33	13	20	1	110	1	140
Ion Balance (% Difference)	%	-	-	N/A	1.35	1.54	1.05	N/A	2.16	N/A	1.31
Langelier Index (@20C)	N/A	-	-	-	-1.74	-2.94	-2.46	-	0.003	-	-0.472
Langelier Index (@4C)	N/A	-	-	-	-1.99	-3.2	-2.72	-	-0.247	-	-0.72
Nitrate (N)	mg/L	10	-	0.05	0.063	ND	ND	0.05	ND	0.05	ND
Saturation pH (@20)	N/A	-	-	-	8.84	9.52	9.31	-	7.84	-	7.63
Saturation pH (@4C)	N/A	-	-	-	9.09	9.78	9.57	-	8.09	-	7.88
Inorganics											
Total Alkalinity (Total as CaCO3)	mg/L	-	-	5	36	15	16	10	100	25	160
Dissolved Chloride (Cl)	mg/L	-	≤250	1	1.1	1.4	1.9	1	3.5	1	4
Colour	TCU	-	≤15	5	ND	7.3	17	5	5	5	31
Dissolved Fluoride (F-)	mg/L	1.5	-	0.1	ND	ND	ND	0.1	ND	0.1	ND
Nitrate + Nitrite	mg/L	-	-	0.05	0.063	ND	ND	0.05	ND	0.05	ND
Nitrite (N)	mg/L	1	-	0.01	ND	ND	ND	0.01	ND	0.01	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	-	0.05	0.068	0.18	0.097	0.05	0.076	0.05	0.21
Total Organic Carbon (C)	mg/L	-	-	0.5	5.9	8.1	5.4	5	39.0	0.5	5.3
Orthophosphate (P)	mg/L	-	-	0.01	ND	ND	ND	0.01	ND	0.01	ND
pH	-	-	6.5-8.5	N/A	7.1	6.58	6.85	N/A	7.84	N/A	7.16
Phenols-4AAP	mg/L	-	-	0.001	ND	0.003	0.0032	0.001	0.0051	0.001	0.012
Reactive Silica (SiO2)	mg/L	-	-	0.5	6.3	3.8	4.9	0.5	1.9	0.5	11
Total Suspended Solids	mg/L	-	-	5	ND	200	8.4	2	32	20	110
Dissolved Sulphate (SO4)	mg/L	-	≤500	2	ND	ND	4.8	2	3.2	10	150
Total Kjeldahl Nitrogen	mg/L	-	-	0.1	0.65	0.76	0.41	0.1	0.94	0.5	9.1
Turbidity	NTU	0.3/1.0/0.1	-	0.1	0.6	16	24	0.1	2	0.3	60
Conductivity	µS/cm	-	-	1	71	35	48	1	210	1	600
Metals											
Total Mercury (Hg)	mg/L	0.001	-	0.000013	ND	0.000013	ND	0.000013	ND	0.000013	ND
Dissolved Aluminum (Al)	mg/L	-	-	0.005	ND	0.036	0.014	0.005	ND	0.005	ND
Total Aluminum (Al)	mg/L	-	-	0.005	0.014	0.41	0.27	0.005	0.093	0.005	0.093
Dissolved Antimony (Sb)	mg/L	0.006	-	0.001	ND	0.0043	ND	0.001	ND	0.001	ND
Total Antimony (Sb)	mg/L	0.006	-	0.001	ND	0.022	ND	0.001	ND	0.001	ND
Dissolved Arsenic (As)	mg/L	0.010	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Total Arsenic (As)	mg/L	0.010	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Dissolved Barium (Ba)	mg/L	1.0	-	0.001	0.0015	0.11	0.10	0.001	0.021	0.001	0.021
Total Barium (Ba)	mg/L	1.0	-	0.001	0.0011	0.13	0.12	0.001	0.019	0.001	0.019
Dissolved Beryllium (Be)	mg/L	-	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Total Beryllium (Be)	mg/L	-	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Dissolved Bismuth (Bi)	mg/L	-	-	0.002	ND	ND	ND	0.002	ND	0.002	ND
Total Bismuth (Bi)	mg/L	-	-	0.002	ND	ND	ND	0.002	ND	0.002	ND
Dissolved Boron (B)	mg/L	5	-	0.05	ND	ND	ND	0.05	ND	0.05	ND
Total Boron (B)	mg/L	5	-	0.05	ND	ND	ND	0.05	ND	0.05	ND
Dissolved Cadmium (Cd)	mg/L	0.005	-	0.000017	0.000021	0.00026	0.00014	0.000017	0.000019	0.000017	0.000019
Total Cadmium (Cd)	mg/L	0.005	-	0.000017	0.000018	0.00031	0.00019	0.000017	0.000011	0.000017	0.000011
Dissolved Calcium (Ca)	mg/L	NR	NR	0.1	8.1	3.9	6.0	0.1	31	0.1	31
Total Calcium (Ca)	mg/L	NR	NR	0.1	8.1	4.1	5.5	0.1	31	0.1	31
Dissolved Chromium (Cr)	mg/L	0.05	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Total Chromium (Cr)	mg/L	0.05	-	0.001	0.0017	0.0033	0.0054	0.001	0.0010	0.001	0.0010
Dissolved Cobalt (Co)	mg/L	-	-	0.0004	ND	0.0060	0.0024	0.0004	ND	0.0004	ND
Total Cobalt (Co)	mg/L	-	-	0.0004	ND	0.0060	0.0022	0.0004	ND	0.0004	ND
Dissolved Copper (Cu)	mg/L	-	≤1.0	0.002	ND	0.15	0.0080	0.002	0.0021	0.002	0.0021
Total Copper (Cu)	mg/L	-	≤1.0	0.002	ND	0.22	0.020	0.002	ND	0.002	ND
Dissolved Iron (Fe)	mg/L	-	≤3.0	0.05	ND	ND	0.48	0.05	ND	0.05	ND
Total Iron (Fe)	mg/L	-	≤3.0	0.05	0.057	1.3	1.7	0.05	0.53	0.05	0.53
Dissolved Lead (Pb)	mg/L	0.010	-	0.0005	ND	0.00063	ND	0.0005	ND	0.0005	ND
Total Lead (Pb)	mg/L	0.010	-	0.0005	0.0017	0.0096	0.0023	0.0005	0.0011	0.0005	0.0011
Dissolved Magnesium (Mg)	mg/L	NR	NR	0.1	3.1	0.70	1.1	0.1	8.0	0.1	8.0
Total Magnesium (Mg)	mg/L	NR	NR	0.1	3.3	1.0	1.1	0.1	7.6	0.1	7.6
Dissolved Manganese (Mn)	mg/L	-	≤0.05	0.002	0.19	0.15	0.14	0.002	0.18	0.002	0.18
Total Manganese (Mn)	mg/L	-	≤0.05	0.002	0.21	0.19	0.14	0.002	0.18	0.002	0.18
Dissolved Molybdenum (Mo)	mg/L	-	-	0.002	ND	ND	0.0028	0.002	ND	0.002	ND
Total Molybdenum (Mo)	mg/L	-	-	0.002	ND	ND	0.0026	0.002	ND	0.002	ND
Dissolved Nickel (Ni)	mg/L	-	-	0.002	ND	0.059	0.0062	0.002	ND	0.002	ND
Total Nickel (Ni)	mg/L	-	-	0.002	ND	0.063	0.0073	0.002	ND	0.002	ND
Dissolved Phosphorus (P)	mg/L	-	-	0.1	ND	ND	ND	0.1	ND	0.1	ND
Total Phosphorus (P)	mg/L	-	-	0.1	ND	ND	ND	0.1	ND	0.1	ND
Dissolved Potassium (K)	mg/L	-	-	0.1	0.73	0.48	0.75	0.1	0.35	0.1	0.35
Total Potassium (K)	mg/L	-	-	0.1	0.72	0.59	0.78	0.1	0.26	0.1	0.26
Dissolved Selenium (Se)	mg/L	0.01	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Total Selenium (Se)	mg/L	0.01	-	0.001	ND	ND	ND	0.001	ND	0.001	ND
Dissolved Silver (Ag)	mg/L	NR	NR	0.0001	ND	0.00020	0.00022	0.0001	ND	0.0001	ND
Total Silver (Ag)	mg/L	NR	NR	0.0001	ND	0.0032	0.0017	0.0001	ND	0.0001	ND
Dissolved Sodium (Na)	mg/L	-	≤200	0.10	1.0	0.94	1.0	0.10	2.8	0.10	2.8
Total Sodium (Na)	mg/L	-	≤200	0.1	1.1	1.0	1.4	0.1	2.5	0.1	2.5
Dissolved Strontium (Sr)	mg/L	-	-	0.002	0.0075	0.0087	0.011	0.002	0.027	0.002	0.027
Total Strontium (Sr)	mg/L	-	-	0.002	0.0075	0.0093	0.011	0.002	0.025	0.002	0.025
Dissolved Thallium (Tl)	mg/L	-	-	0.0001	ND	ND	ND	0.0001	ND	0.0001	ND
Total Thallium (Tl)	mg/L	-	-	0.0001	ND	ND	ND	0.0001	ND	0.0001	ND
Dissolved Tin (Sn)	mg/L	-	-	0.002	0.0044	0.0039	0.0026	0.002	ND	0.002	ND
Total Tin (Sn)	mg/L	-	-	0.002	0.0029	0.010	0.0072	0.002	0.0038	0.002	0.0038
Dissolved Titanium (Ti)	mg/L	-	-	0.002	ND	ND	ND	0.002	ND	0.002	ND
Total Titanium (Ti)	mg/L	-	-	0.002	ND	0.017	0.0075	0.002	0.0024	0.002	0.0024
Dissolved Uranium (U)	mg/L	0.02	-	0.0001	ND	ND	ND	0.0001	ND	0.0001	ND
Total Uranium (U)	mg/L	0.02	-	0.0001	ND	ND	ND	0.0001	ND	0.0001	ND
Dissolved Vanadium (V)	mg/L	-	-	0.002	ND	ND	ND	0.002	ND	0.002	ND
Total Vanadium (V)	mg/L	-	-	0.002	ND	ND	ND	0.002	ND	0.002	ND
Dissolved Zinc (Zn)	mg/L	-	≤5.0	0.005	0.042	0.55	0.018	0.005	0.016	0.005	0.016
Total Zinc (Zn)	mg/L	-	≤5.0	0.005	0.026	0.65	0.032	0.005	0.018	0.005	0.018

Notes:

1: MAC - Maximum Allowable Concentration, Table 2, Summary of Guideline for Canadian Drinking Water Quality (SGCDWG), Health Canada, August 2012

BOLD and Shaded Values exceed MAC

2: AO - Aesthetic Objective, Table 2, Summary of Guideline for Canadian Drinking Water Quality (SGCDWG), Health Canada, August 2012

Italics and Shaded exceed AO

3: NR - None Required

4: ND - Non Detect

Table 2: Wabush 3 EIS - Groundwater Quality during pumping test of TW-13-01
Results from IOC

Well Name	Units	MAC ¹	AO ²	RDL	TW-13-01A 11/10/2013	TW-13-01B 11/10/2013	TW-13-01C 12/10/2013	TW-13-01D 13/10/2013	TW-13-01E 14/10/2013	TW-13-01F 15/10/2013	W3-13-174 15/10/2013	TW-13-01G 16/10/2013	TW-13-01H 17/10/2013	RDL	W3-13-172 15/10/2013
Anion Sum	me/L	-	-	N/A	0.580	0.570	0.590	0.580	0.560	0.520	0.470	0.550	0.550	N/A	6.75
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	-	1	28	28	29	28	28	25	19	27	27	1	170
Calculated TDS	mg/L	-	≤500	1	34	34	35	34	33	30	27	32	32	1	420
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	-	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
Cation Sum	me/L	-	-	N/A	0.600	0.610	0.640	0.600	0.590	0.540	0.400	0.560	0.570	N/A	6.95
Hardness (CaCO3)	mg/L	NR	NR	1	27	28	30	28	28	25	17	26	27	1	150
Ion Balance (% Difference)	%	-	-	N/A	1.69	3.39	4.07	1.69	2.61	1.89	8.05	0.900	1.79	N/A	1.46
Langelier Index (@20C)	N/A	-	-	-	-1.99	-1.89	-1.85	-1.93	-1.88	-2.06	-2.58	-1.94	-1.99	-	-0.513
Langelier Index (@4C)	N/A	-	-	-	-2.24	-2.15	-2.11	-2.18	-2.14	-2.31	-2.84	-2.19	-2.25	-	-0.762
Nitrate (N)	mg/L	45	-	0.05	0.098	0.088	0.092	0.095	0.10	0.15	ND	0.11	0.10	0.05	ND
Saturation pH (@20)	N/A	-	-	-	9.02	9.02	8.98	9.02	9.04	9.12	9.25	9.07	9.06	-	7.59
Saturation pH (@4C)	N/A	-	-	-	9.28	9.28	9.24	9.27	9.30	9.37	9.51	9.32	9.32	-	7.84
Inorganics															
Total Alkalinity (Total as CaCO3)	mg/L	-	-	5	29	28	29	29	28	25	19	27	27	25	170
Dissolved Chloride (Cl)	mg/L	-	≤250	1	ND	ND	ND	ND	ND	ND	1.2	ND	ND	1	4.3
Colour	TCU	-	≤15	5	ND	ND	ND	ND	ND	ND	9.5	ND	ND	5	28
Dissolved Fluoride (F-)	mg/L	1.5	-	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND
Nitrate + Nitrite	mg/L	-	-	0.05	0.098	0.088	0.092	0.095	0.10	0.15	ND	0.11	0.10	0.05	ND
Nitrite (N)	mg/L	3.2	-	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	-	0.05	0.072	0.10	0.097	ND	0.062	0.11	0.066	ND	0.065	0.05	0.13
Total Organic Carbon (C)	mg/L	-	-	0.5	ND	ND	ND	ND	ND	ND	5.9	ND	ND	5	46 (1)
Orthophosphate (P)	mg/L	-	-	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND
pH	-	-	6.5-8.5	N/A	7.03	7.13	7.13	7.09	7.16	7.06	6.67	7.13	7.07	N/A	7.08
Phenols-4AAP	mg/L	-	-	0.001	0.0011	0.0010	ND	ND	0.0021	ND	0.0034 (2)	ND	ND	0.001	0.0081 (2)
Reactive Silica (SiO2)	mg/L	-	-	0.5	5.6	5.6	5.7	5.6	5.7	5.0	3.7	5.6	5.6	0.5	11
Total Suspended Solids	mg/L	-	-	1.0	1.4	1.8	ND	ND	ND	ND	35	ND	ND	10	72
Dissolved Sulphate (SO4)	mg/L	-	≤500	2.0	ND	ND	ND	ND	ND	ND	2.3	ND	ND	10	160
Total Kjeldahl Nitrogen	mg/L	-	-	0.1	0.10	0.20	0.40	0.34	1.3	0.48	0.43	0.12	0.50	0.3	6.2
Turbidity	NTU	0.3/1.0/0.1	-	0.1	0.37	0.52	0.14	ND	ND	0.19	3.3	ND	0.10	0.5	71
Conductivity	µS/cm	-	-	1	55	55	55	54	55	53	41	54	54	1	640
Metals															
Total Mercury (Hg)	mg/L	0.001	-	0.00013	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00013	ND
Dissolved Aluminum (Al)	mg/L	-	-	0.005	ND	ND	0.011	ND	ND	ND	0.037	ND	ND	0.005	0.0089
Total Aluminum (Al)	mg/L	-	-	0.005	0.018	0.0087	0.0061	0.0071	0.013	ND	0.18	0.0096	0.0089	0.005	0.10
Dissolved Antimony (Sb)	mg/L	0.006	-	0.001	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	0.001	0.0012
Total Antimony (Sb)	mg/L	0.006	-	0.001	ND	ND	ND	ND	ND	ND	0.0031	ND	ND	0.001	0.0014
Dissolved Arsenic (As)	mg/L	0.010	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
Total Arsenic (As)	mg/L	0.010	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
Dissolved Barium (Ba)	mg/L	1.0	-	0.001	ND	0.0013	0.0073	0.0020	0.0049	0.0051	0.10	ND	0.0012	0.001	0.022
Total Barium (Ba)	mg/L	1.0	-	0.001	0.0019	0.0038	0.0017	0.0027	0.013	0.0021	0.12	0.0018	0.0049	0.001	0.025
Dissolved Beryllium (Be)	mg/L	-	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
Total Beryllium (Be)	mg/L	-	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
Dissolved Bismuth (Bi)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND
Total Bismuth (Bi)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND
Dissolved Boron (B)	mg/L	5	-	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND
Total Boron (B)	mg/L	5	-	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND
Dissolved Cadmium (Cd)	mg/L	0.005	-	0.000017	ND	ND	ND	ND	ND	0.000017	0.00041	ND	ND	0.00001	0.000085
Total Cadmium (Cd)	mg/L	0.005	-	0.000017	ND	ND	ND	ND	ND	ND	0.00051	ND	ND	0.00001	0.00012
Dissolved Calcium (Ca)	mg/L	NR	NR	0.1	6.5	6.6	7.0	6.6	6.4	5.9	5.6	6.2	6.2	0.1	43
Total Calcium (Ca)	mg/L	NR	NR	0.1	6.6	6.5	6.4	6.5	6.4	6.3	6.0	6.3	6.7	0.1	44
Dissolved Chromium (Cr)	mg/L	0.05	-	0.001	ND	ND	0.0012	ND	ND	0.0032	ND	ND	ND	0.001	ND
Total Chromium (Cr)	mg/L	0.05	-	0.001	ND	ND	ND	ND	0.0026	ND	0.0025	ND	0.0010	0.001	0.0017
Dissolved Cobalt (Co)	mg/L	-	-	0.0004	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	0.0004	0.00081
Total Cobalt (Co)	mg/L	-	-	0.0004	ND	ND	ND	ND	ND	ND	0.0066	ND	ND	0.0004	0.00099
Dissolved Copper (Cu)	mg/L	-	≤1.0	0.002	ND	ND	0.0020	ND	ND	ND	0.15	ND	ND	0.002	0.0057
Total Copper (Cu)	mg/L	-	≤1.0	0.002	ND	ND	ND	ND	0.0025	ND	0.19	ND	ND	0.002	0.014
Dissolved Iron (Fe)	mg/L	-	≤3.0	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	0.89
Total Iron (Fe)	mg/L	-	≤3.0	0.05	0.098	ND	ND	ND	0.077	ND	0.40	0.062	0.13	0.1	3.6
Dissolved Lead (Pb)	mg/L	0.010	-	0.0005	ND	ND	0.0024	ND	0.00080	0.00099	0.00064	ND	ND	0.0005	0.00073
Total Lead (Pb)	mg/L	0.010	-	0.0005	ND	0.0010	ND	ND	0.0057	ND	0.0043	ND	0.0020	0.0005	0.0032
Dissolved Magnesium (Mg)	mg/L	NR	NR	0.1	2.7	2.8	2.9	2.8	2.8	2.5	0.75	2.6	2.7	0.1	9.3
Total Magnesium (Mg)	mg/L	NR	NR	0.1	2.6	2.6	2.7	2.7	2.7	2.7	0.89	2.8	2.9	0.1	10
Dissolved Manganese (Mn)	mg/L	-	≤0.05	0.002	0.0077	0.0074	0.016	0.0031	0.0022	0.0032	0.16	ND	ND	0.002	0.66
Total Manganese (Mn)	mg/L	-	≤0.05	0.002	0.044	0.033	0.014	0.0099	0.0085	0.0032	0.19	0.0054	0.0088	0.002	0.81
Dissolved Molybdenum (Mo)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.0078
Total Molybdenum (Mo)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.0068
Dissolved Nickel (Ni)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	0.062	ND	ND	0.002	0.0022
Total Nickel (Ni)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	0.067	0.0027	0.0042	0.002	0.0038
Dissolved Phosphorus (P)	mg/L	-	-	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND
Total Phosphorus (P)	mg/L	-	-	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.10
Dissolved Potassium (K)	mg/L	-	-	0.1	0.69	0.65	0.71	0.62	0.63	0.61	0.59	0.64	0.62	0.1	1.6
Total Potassium (K)	mg/L	-	-	0.1	0.75	0.68	0.65	0.67	0.71	0.67	0.78	0.63	0.72	0.1	1.7
Dissolved Selenium (Se)	mg/L	0.01	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0012
Total Selenium (Se)	mg/L	0.01	-	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0011
Dissolved Silver (Ag)	mg/L	NR	NR	0.0001	ND	ND	ND	ND	ND	ND	0.00016	ND	ND	0.0001	ND
Total Silver (Ag)	mg/L	NR	NR	0.0001	ND	ND	ND	ND	ND	ND	0.00063	ND	ND	0.0001	0.00068
Dissolved Sodium (Na)	mg/L	-	≤200	0.10	0.68	0.59	0.69	0.54	0.54	0.49	0.94	0.50	0.49	0.10	91
Total Sodium (Na)	mg/L	-	≤200	0.10	0.62	0.55	0.52	0.51	0.58	0.49	1.1	0.50	0.52	0.10	92
Dissolved Strontium (Sr)	mg/L	-	-	0.002	0.0063	0.0060	0.0070	0.0056	0.0057	0.0056	0.0098	0.0053	0.0059	0.002	0.10
Total Strontium (Sr)	mg/L	-	-	0.002	0.0068	0.0063	0.0057	0.0061	0.0061	0.0059	0.011	0.0060	0.0061	0.002	0.10
Dissolved Thallium (Tl)	mg/L	-	-	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	ND
Total Thallium (Tl)	mg/L	-	-	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	ND
Dissolved Tin (Sn)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	0.002	0.0039
Total Tin (Sn)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.002	0.012
Dissolved Titanium (Ti)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND
Total Titanium (Ti)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	0.0084	ND	ND	0.002	0.0063
Dissolved Uranium (U)	mg/L	0.02	-	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	0.0019
Total Uranium (U)	mg/L	0.02	-	0.0001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	0.0022
Dissolved Vanadium (V)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND
Total Vanadium (V)	mg/L	-	-	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND
Dissolved Zinc (Zn)	mg/L	-	≤5.0	0.005	ND	ND	0.027	ND	ND	ND	0.026	0.17	ND	0.005	0.11
Total Zinc (Zn)	mg/L	-	≤5.0	0.005	0.0057	ND	ND	ND	0.018	ND	0.23	ND	0.0053	0.005	0.12

Notes:
1: MAC - Maximum Allowable Concentration, Table 2, Summary of Guideline for Canadian Drinking Water Quality (SCGDWG), Health Canada, August 2012
BOLD and Shaded Values exceed MAC
2: AO - Aesthetic Objective, Table 2, Summary of Guideline for Canadian Drinking Water Quality (SCGDWG), Health Canada, August 2012
Italics and Shaded exceed AO
3: NR - None Required
4: ND - Non Detect

Table 3: Wabush 3 EIS - Domestic Well Results
Results from IOC

Sample Name	Units	MAC ¹	AO ²	RDL	DW-Cabin	DW-Smokey Mountain Lodge	DW-Menihek
Date Sampled					18-Jun-14	18-Jun-14	18-Jun-14
Anion Sum	me/L	-	-	N/A	2.90	2.63	2.75
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	-	1	130	120	120
Calculated TDS	mg/L	-	≤500	1	150	140	140
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	-	1	1.00	ND	ND
Cation Sum	me/L	-	-	N/A	2.77	2.81	2.63
Hardness (CaCO ₃)	mg/L	NR	NR	1	130	130	130
Ion Balance (% Difference)	%	-	-	N/A	2.29	3.31	2.23
Langelier Index (@20C)	N/A	-	-	-	0.23	0.01	-0.15
Langelier Index (@4C)	N/A	-	-	-	-0.02	-0.25	-0.40
Nitrate (N)	mg/L	10.00	-	0.05	0.20	0.18	0.73
Saturation pH (@20)	N/A	-	-	-	7.67	7.69	7.84
Saturation pH (@4C)	N/A	-	-	-	7.92	7.95	8.09
Inorganics							
Total Alkalinity (Total as CaCO ₃)	mg/L	-	-	25	140	130	120
Dissolved Chloride (Cl)	mg/L	-	≤250	1	ND	ND	4.80
Colour	TCU	-	≤15	5	ND	ND	ND
Nitrate + Nitrite	mg/L	-	-	0.05	0.30	0.18	0.77
Nitrite (N)	mg/L	1.00	-	0.01	ND	ND	0.04
Nitrogen (Ammonia Nitrogen)	mg/L	-	-	0.05	ND	ND	ND
Total Organic Carbon (C)	mg/L	-	-	0.5	ND	ND	ND
Orthophosphate (P)	mg/L	-	-	0.01	ND	ND	ND
pH	-	-	6.5-8.5	N/A	7.90	7.70	7.69
Reactive Silica (SiO ₂)	mg/L	-	-	0.5	9.70	8.70	7.20
Dissolved Sulphate (SO ₄)	mg/L	-	≤500	2	7.90	5.60	4.00
Turbidity	NTU	0.3/1.0/.0.1	-	0.1	ND	0.55	0.39
Conductivity	µS/cm	-	-	1	250	260	250
Metals							
Total Aluminum (Al)	mg/L	-	-	0.005	0.01	ND	0.03
Total Antimony (Sb)	mg/L	0.01	-	0.001	ND	ND	ND
Total Arsenic (As)	mg/L	0.01	-	0.001	ND	ND	ND
Total Barium (Ba)	mg/L	1.00	-	0.001	0.03	0.03	0.01
Total Beryllium (Be)	mg/L	-	-	0.001	ND	ND	ND
Total Bismuth (Bi)	mg/L	-	-	0.002	ND	ND	ND
Total Boron (B)	mg/L	5.00	-	0.05	ND	ND	ND
Total Cadmium (Cd)	mg/L	0.01	-	0.00001	ND	ND	ND
Total Calcium (Ca)	mg/L	NR	NR	0.1	37	38	27
Total Chromium (Cr)	mg/L	0.05	-	0.001	ND	ND	ND
Total Cobalt (Co)	mg/L	-	-	0.0004	ND	ND	ND
Total Copper (Cu)	mg/L	-	≤1.0	0.002	0.00	0.01	0.00
Total Iron (Fe)	mg/L	-	≤3.0	0.05	0.06	0.07	0.08
Total Lead (Pb)	mg/L	0.01	-	0.0005	ND	ND	0.62
Total Magnesium (Mg)	mg/L	NR	NR	0.1	8.8	8.9	14.0
Total Manganese (Mn)	mg/L	-	≤0.05	0.002	ND	0.02	ND
Total Molybdenum (Mo)	mg/L	-	-	0.002	ND	ND	ND
Total Nickel (Ni)	mg/L	-	-	0.002	ND	ND	ND
Total Phosphorus (P)	mg/L	-	-	0.1	ND	ND	ND
Total Potassium (K)	mg/L	-	-	0.1	6.0	6.3	1.3
Total Selenium (Se)	mg/L	0.01	-	0.001	ND	ND	ND
Total Silver (Ag)	mg/L	NR	NR	0.001	ND	ND	ND
Total Sodium (Na)	mg/L	-	≤200	0.1	1.20	0.89	1.10
Total Strontium (Sr)	mg/L	-	-	0.002	0.09	0.06	0.02
Total Thallium (Tl)	mg/L	-	-	0.0001	ND	ND	ND
Total Tin (Sn)	mg/L	-	-	0.002	ND	ND	ND
Total Titanium (Ti)	mg/L	-	-	0.002	ND	ND	ND
Total Uranium (U)	mg/L	0.02	-	0.0001	4.20E-04	3.30E-04	1.50E-04
Total Vanadium (V)	mg/L	-	-	0.002	ND	ND	ND
Total Zinc (Zn)	mg/L	-	≤5.0	0.005	0.01	0.02	0.04

1: MAC - Maximum Allowable Concentration. Table 2, Summary of Guideline for Canadian Drinking Water Quality (SGCDWG), Health Canada, August 2012

BOLD and Shaded Values exceed MAC

2: AO - Aesthetic Objective. Table 2, Summary of Guideline for Canadian Drinking Water Quality (SGCDWG), Health Canada, August 2012

Italics and Shaded exceed AO