

Table B1: Analytical Results for Nutrients in Surface Water		E292898 ANCILLARY DISCHARGE				E305365 SW-1				
		7011107-01	7011234-01	7020950-02	7021028-01	7011107-02	7011234-02	7020950-01	7021028-02	
Laboratory ID	BCAWWQG ⁽²⁾	1-Weir	1-Weir	1-Weir	1-Weir	2-SW1	2-SW1	2-SW1	2-SW1	
Sample ID		2017-01-18	2017-01-19	2017-02-15	2017-02-16	2017-01-18	2017-01-19	2017-02-15	2017-02-16	
Date Sampled/Time										
Physical Tests										
Colour, True (Colour Units)	15 ⁽⁴⁾ units absolute, or 5 units above background (30-day average)	9	<5	5	5	<5	<5	<5	<5	
Conductivity (uS/cm)	-	252	276	291	231	370	337	313	236	
Hardness (as CaCO ₃)	-	71.6	83.6	93.4	80.3	125	114	115	89.9	
pH	-	7.4	7.56	7.72	7.68	7.52	7.56	7.65	7.61	
Total Suspended Solids (mg/L)	25 mg/L above background (24-hr during clear flow)	28	14	31	6	8	3	5	<2	
Total Dissolved Solids (mg/L)	-	145	152	189	144	208	189	193	144	
Turbidity (NTU)	8 NTU above background (24-hr during clear flow)									
	Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters	69.1	23.1	53.1	17	23	4.4	13.2	4.85	
	Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters									
Anions and Nutrients mg/L										
Alkalinity Total (as CaCO ₃)	<10 high sensitivity to acid inputs moderate sensitivity to acid inputs >20 low sensitivity to acid inputs	10-20	25	37	40	35	52	52	59	43
Acid Sensitivity			Low	Low	Low	Low	Low	Low	Low	Low
Chloride (Cl)	600 (instant max) 150 (30-day average)	36.7	35.3	31	16.9	40.3	39	23.2	13.1	
Fluoride (F)	1.5 (instant max) 1.0 (30-day average)	0.11	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	
	Hardness-Dependent BCAWWQG to protect AW ⁽⁷⁾	1.20	1.26	1.31	1.25	0.69	0.69	0.69	0.69	
Nitrate (as N)	32.8 (instant maximum) 3.0 (30-day average)	0.145	0.195	0.272	0.264	0.378	0.395	0.456	0.408	
Nitrite (as N) ⁽³⁾ Cl <2 mg/L	0.06 (max) 0.02 (30-day average)									
Cl 2 - <4 mg/L	0.12 (max) 0.04 (30-day average)									
Cl 4 - <6 mg/L	0.18 (max) 0.06 (30-day average)									
Cl 6 - <8 mg/L	0.24 (max) 0.08 (30-day average)									
Cl 8 - <10 mg/L	0.3 (max) 0.1 (30-day average)									
Cl ≥ 10 mg/L	0.6 (max) 0.2 (30-day average)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Sulfate (SO ₄) H 0-30 mg/L	128 (30-day average)				47.7	52.6		56.3	49.9	
H 31 - 75 mg/L	218 (30-day average)	30.8		47.9			55			
H 76 - 180 mg/L	309 (30-day average)		44.2							
H 181 - 250 mg/L	429 (30-day average)									
H > 250 mg/L	TBD									

Notes: Refer to Table Endnotes (attached)

		E292898 ANCILLARY DISCHARGE			
Table B2: Analytical Results for Total and Dissolved Metals in Surface Water					
Laboratory ID		7011107-01	7011234-01	7020950-02	7021028-01
Sample ID		1-Weir	1-Weir	1-Weir	1-Weir
Date Sampled/Time	BCAWWQG ⁽²⁾	2017-01-18	2017-01-19	2017-02-15	2017-02-16
Physical Tests					
Hardness (as CaCO3) (mg/L)	-	71.6	83.6	93.4	80.3
pH	-	7.4	7.56	7.72	7.68
Total Metals (mg/L)					
Aluminum (Al)-Total	-	3.31	0.9	2.58	0.985
Antimony (Sb)-Total	0.009	0.0003	0.0002	0.0002	0.0002
Arsenic (As)-Total	0.005	0.0008	<0.0005	0.0006	<0.0005
Barium (Ba)-Total	1.0	0.025	0.009	0.02	0.009
Beryllium (Be)-Total	0.00013	<0.0001	<0.0001	<0.0001	<0.0001
Boron (B)-Total	1.2	0.013	0.014	0.024	0.026
Cadmium (Cd)-Total	-	0.00002	<0.00001	0.00001	<0.00001
Calcium (Ca)-Total	-	23.9	27.2	31.8	28
Chromium (Cr)-Total Chromium	-	0.0062	0.0016	0.0045	0.002
Chromium (Cr(III))	0.0089	0.006	0.0016	0.0045	0.002
Chromium (Cr(VI))	0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co)-Total	0.004 (30-d average)	0.00148	0.00043	0.00113	0.00044
	Hardness-Dependent ⁽⁷⁾	0.0071	0.0026	0.0056	0.0034
Copper (Cu)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0087	0.0099	0.0108	0.0095
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.0029	0.0033	0.0037	0.0032
Iron (Fe)-Total	1	3.47	0.93	2.61	1.02
	Hardness-Dependent ⁽⁷⁾	0.0013	0.0005	0.0012	0.0006
Lead (Pb)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0534	0.0650	0.0748	0.0617
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.0054	0.0058	0.0062	0.0057
Magnesium (Mg)-Total	-	5.57	5.08	5.68	4.56
	Hardness-Dependent ⁽⁷⁾	0.0578	0.034	0.0347	0.0133
Manganese (Mn)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	1.3	1.5	1.6	1.4
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.9	1.0	1.0	1.0
Mercury (Hg)-Total	0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum (Mo)-Total	≤1 (instant max) 2 (30-d average)	0.0005	0.0005	0.0005	0.0006
Nickel (Ni)-Total	0.025 (Hardness-Dependent BCAWQG to protect AW H=60mg/L) Calculated Hardness-Dependent BCAWQG to protect AW 60≤H<180 mg/L CaCO3	0.0055	0.0017	0.0045	0.0018
		0.074	0.083	0.091	0.081
Potassium (K)-Total	-	1.41	0.88	1.16	0.78
Selenium (Se)-Total	0.002	<0.0005	<0.0005	<0.0005	<0.0005
	Hardness-Dependent ⁽⁷⁾	0.00165	0.0001	<0.00005	<0.00005
Silver (Ag)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0001	0.0001	0.0001	0.0001
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.00005	0.00005	0.00005	0.00005
Sodium (Na)-Total	-	18.1	17.2	16.4	11
Thallium (Tl)-Total	0.0008 (30-day average, site-specific objective for lower Columbia River)	<0.00002	<0.00002	<0.00002	<0.00002
Uranium (U)-Total	0.0085	0.00017	0.00016	0.00041	0.00026
	Hardness-Dependent ⁽⁷⁾	0.01	<0.004	0.008	0.004
Zinc (Zn)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.033	0.033	0.036	0.033
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.008	0.008	0.010	0.008
Dissolved Metals (mg/L)					
Aluminum (Al)-Dissolved	0.05 (30-day average where median pH > 6.5) 0.1 (maximum where instantaneous pH > 6.5) *** indicates pH-dependent maximum where instant pH < 6.5	0.011	0.005	0.008	0.007
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	-	-	-	-
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d Mean)	-	-	-	-
Antimony (Sb)-Dissolved	-	0.0002	0.0002	0.0002	0.0002
Arsenic (As)-Dissolved	-	<0.0005	<0.0005	<0.0005	<0.0005
Barium (Ba)-Dissolved	-	<0.005	<0.005	<0.005	<0.005
Boron (B)-Dissolved	-	0.011	0.013	0.019	0.015
	Hardness-Dependent ⁽⁷⁾	<0.00001	<0.00001	<0.00001	<0.00001
Cadmium (Cd)-Dissolved	Calculated Hardness-Dependent BCAWQG to protect AW (short-term max) e[1.03 * ln(Hss) - 5.274] ug/L H<455mg/L	0.00042	0.00049	0.00055	0.00047
	Calculated Hardness-Dependent BCAWQG to protect AW (long-term max) e[0.736 * ln(Hss) - 4.943] ug/L H<285mg/L	0.00017	0.00019	0.00020	0.00018
Calcium (Ca)-Dissolved	up to 4, highly sensitive to acid inputs 4 to 8, moderately sensitive over 8 low sensitivity	21.9	25.2	29.6	25.5
		Low	Low	Low	Low
Chromium (Cr)-Dissolved ⁽⁸⁾	-	<0.0005	<0.0005	<0.0005	<0.0005
Copper (Cu)-Dissolved	-	0.0006	0.0007	0.0007	0.0006
Iron (Fe)-Dissolved	0.35	0.014	<0.010	<0.010	<0.010
Lead (Pb)-Dissolved	-	<0.0001	<0.0001	<0.0001	<0.0001
Magnesium (Mg)-Dissolved	-	4.11	5.04	4.73	4.07
Manganese (Mn)-Dissolved	-	0.0126	0.0217	0.0007	0.0006
Mercury (Hg)-Dissolved	-	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	-	0.0004	0.0005	0.0005	0.0005
Potassium (K)-Dissolved	-	0.82	0.77	0.75	0.63
Selenium (Se)-Dissolved	-	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)-Dissolved	-	16.4	16.9	15.6	10.2
Uranium (U)-Dissolved	-	0.00009	0.00013	0.00033	0.00021
Zinc (Zn)-Dissolved	-	<0.004	<0.004	0.007	<0.004

Notes: Refer to Table Endnotes (attached)

Table B3: Analytical Results for Volatile Organic Compounds (VOCs) in Surface Water

Laboratory ID		E292898 ANCILLARY DISCHARGE				E305365 SW-1			
		7011107-01	7011234-01	7020950-02	7021028-01	7011107-02	7011234-02	7020950-01	7021028-02
		1-Weir	1-Weir	1-Weir	1-Weir	2-SW1	2-SW1	2-SW1	2-SW1
Sample ID	BCAWWQG ⁽²⁾	2017-01-18	2017-01-19	2017-02-15	2017-02-16	2017-01-18	2017-01-19	2017-02-15	2017-02-16
Date Sampled/Time		2017-01-18	2017-01-19	2017-02-15	2017-02-16	2017-01-18	2017-01-19	2017-02-15	2017-02-16
Volatile Organic Compounds (ug/L)									
Benzene	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	13.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	98.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,2-Dichloropropane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropene (cis & trans)	-	-	-	-	-	-	-	-	-
Ethylbenzene	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl t-butyl ether (MTBE)	3400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	72	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes: Refer to Table Endnotes (attached)

Table B4: Analytical Results for Hydrocarbons, PAHs, and Glycols in Surface Water

		E292898 ANCILLARY DISCHARGE				E305365 SW-1			
Laboratory ID	BCAWWQG ⁽²⁾	7011107-01	7011234-01	7020950-02	7021028-01	7011107-02	7011234-02	7020950-01	7021028-02
Sample ID		1-Weir	1-Weir	1-Weir	1-Weir	2-SW1	2-SW1	2-SW1	2-SW1
Date Sampled/ Time		2017-01-18	2017-01-19	2017-02-15	2017-02-16	2017-01-18	2017-01-19	2017-02-15	2017-02-16
Hydrocarbons ug/L									
LEPH	-	<250	<250	<250	<250	<250	<250	<250	<250
HEPH	-	<250	<250	<250	<250	<250	<250	<250	<250
ug/l									
Acenaphthene	6	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Acenaphthylene	-	<0.20	<0.20	<0.200	<0.200	<0.20	<0.20	<0.200	<0.200
Acridine	3	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Anthracene	4	<0.01	<0.01	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010
Benz(a)anthracene	0.1	<0.01	<0.01	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010
Benzo(a)pyrene	0.01	<0.01	<0.01	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010
Benzo(b)fluoranthene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Benzo(g,h,i)perylene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Benzo(k)fluoranthene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Chrysene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Dibenz(a,h)anthracene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Fluoranthene	4	<0.03	<0.03	<0.030	<0.030	<0.03	<0.03	<0.030	<0.030
Fluorene	12	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	-	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Naphthalene	1	<0.20	<0.20	<0.200	<0.200	<0.20	<0.20	<0.200	<0.200
Phenanthrene	0.3	<0.10	<0.10	<0.100	<0.100	<0.10	<0.10	<0.100	<0.100
Pyrene	0.02	<0.02	<0.02	<0.020	<0.020	<0.02	<0.02	<0.020	<0.020
Quinoline	3.4	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05	<0.050	<0.050
Glycols mg/l									
Diethylene Glycol	-	<5	<5	<5	<5	<5	<5	<5	<5
Ethylene Glycol	192 ⁽⁶⁾	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Propylene Glycol	500 ⁽⁶⁾	<5	<5	<5	<5	<5	<5	<5	<5

Notes: Refer to Table Endnotes (attached)

Table B5: Analytical Results for Total and Dissolved Metals in Surface Water using Background Hardness		E305365 SW-1			
Laboratory ID	BCAWWQG ⁽²⁾	7011107-02	7011234-02	7020950-01	7021028-02
Sample ID		2-SW1	2-SW1	2-SW1	2-SW1
Date Sampled/Time		2017-01-18	2017-01-19	2017-02-15	2017-02-16
Physical Tests					
Background Hardness (as CaCO ₃) (mg/L)		20	20	20	20
Hardness (as CaCO ₃) (mg/L)	-	125	114	115	89.9
pH	-	7.52	7.56	7.65	7.61
Total Metals (mg/L)					
Aluminum (Al)-Total	-	0.744	0.107	0.354	0.226
Antimony (Sb)-Total	0.009	0.0002	0.0002	0.0002	0.0002
Arsenic (As)-Total	0.005	<0.0005	<0.0005	<0.0005	<0.0005
Barium (Ba)-Total	1.0	0.012	0.007	0.008	0.006
Beryllium (Be)-Total	0.00013	<0.0001	<0.0001	<0.0001	<0.0001
Boron (B)-Total	1.2	0.013	0.013	0.03	0.026
Cadmium (Cd)-Total	-	<0.00001	<0.00001	<0.00001	<0.00001
Calcium (Ca)-Total	-	43	37.2	38.7	29.8
Chromium (Cr)-Total Chromium	-	0.0014	<0.0005	0.0008	0.0005
Chromium (Cr(III))	0.0089	0.001	<0.0010	<0.0010	<0.001
Chromium (Cr(VI))	0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Co)-Total	0.004	0.00042	0.00011	0.00025	0.00016
Copper (Cu)-Total	Hardness-Dependent⁽⁷⁾	0.0026	0.0012	0.0018	0.0015
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0039	0.0039	0.0039	0.0039
Iron (Fe)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.0020	0.0020	0.0020	0.0020
	1	0.77	0.11	0.39	0.23
Lead (Pb)-Total	Hardness-Dependent⁽⁷⁾	0.0005	0.0001	0.0003	0.0002
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0105	0.0105	0.0105	0.0105
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.0037	0.0037	0.0037	0.0037
Magnesium (Mg)-Total	-	6.35	5.76	5.81	4.59
Manganese (Mn)-Total	Hardness Dependent⁽⁷⁾	0.0182	0.0067	0.0078	0.0042
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.8	0.8	0.8	0.8
Mercury (Hg)-Total	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.7	0.7	0.7	0.7
	0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum (Mo)-Total	≤1 (instant max) 2 (30-d average)	0.0006	0.0006	0.0006	0.0007
Nickel (Ni)-Total	0.025 (Hardness-Dependent BCAWQG to protect AW H<60mg/L)	0.0017	0.0006	0.001	0.0007
	Calculated Hardness-Dependent BCAWQG to protect AW 60≤H≤180 mg/L CaCO ₃	0.025	0.025	0.025	0.025
Potassium (K)-Total	-	0.98	0.81	0.76	0.59
Selenium (Se)-Total	0.002	<0.0005	<0.0005	<0.0005	<0.0005
Silver (Ag)-Total	Hardness-Dependent⁽⁷⁾	0.0002	0.00008	<0.00005	<0.00005
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.0001	0.0001	0.0001	0.0001
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.00005	0.00005	0.00005	0.00005
Sodium (Na)-Total	-	18.3	16.6	11.6	8.37
Thallium (Tl)-Total	0.0008 (30-day average, site-specific objective for lower Columbia River)	<0.00002	<0.00002	<0.00002	<0.00002
Uranium (U)-Total	0.0085	0.00039	0.00028	0.00045	0.00025
Zinc (Zn)-Total	Hardness Dependent⁽⁷⁾	<0.004	<0.004	<0.004	<0.004
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	0.033	0.033	0.033	0.033
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d average)	0.008	0.008	0.008	0.008
Dissolved Metals (mg/L)					
Aluminum (Al)-Dissolved	0.05 (30-day average where median pH > 6.5) 0.1 (maximum where instantaneous pH > 6.5) *** indicates pH-dependent maximum where instant pH < 6.5	<0.005	<0.005	<0.005	<0.005
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (instant max)	-	-	-	-
	Hardness-Dependent BCAWQG to protect AW ⁽⁷⁾ (30-d Mean)	-	-	-	-
Antimony (Sb)-Dissolved	-	0.0002	0.0002	0.0002	0.0002
Arsenic (As)-Dissolved	-	<0.0005	<0.0005	<0.0005	<0.0005
Barium (Ba)-Dissolved	-	0.008	0.007	0.006	<0.005
Boron (B)-Dissolved	-	0.013	0.012	0.02	0.014
Cadmium (Cd)-Dissolved	Hardness-Dependent⁽⁷⁾	<0.00001	<0.00001	<0.00001	<0.00001
	Calculated Hardness-Dependent BCAWQG to protect AW (short-term max) e[1.03 * ln(Hss) - 5.274] ug/L H<455mg/L	0.00011	0.00011	0.00011	0.00011
Calcium (Ca)-Dissolved	Calculated Hardness-Dependent BCAWQG to protect AW (long-term max) e[0.736 * ln(Hss) - 4.943] ug/L H<285mg/L	0.00006	0.00006	0.00006	0.00006
	up to 4, highly sensitive to acid inputs 4 to 8, moderately sensitive over 8 low sensitivity	39.3	35.5	36.8	28.7
Chromium (Cr)-Dissolved ⁽⁸⁾	-	<0.0005	<0.0005	<0.0005	<0.0005
Copper (Cu)-Dissolved	-	0.0008	0.0008	0.0008	0.0007
Iron (Fe)-Dissolved	0.35	<0.010	<0.010	<0.010	<0.010
Lead (Pb)-Dissolved	-	<0.0001	<0.0001	<0.0001	<0.0001
Magnesium (Mg)-Dissolved	-	6.42	6.05	5.59	4.4
Manganese (Mn)-Dissolved	-	0.0066	0.0046	0.0018	0.0007
Mercury (Hg)-Dissolved	-	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	-	0.0007	0.0007	0.0007	0.0006
Potassium (K)-Dissolved	-	0.9	0.82	0.7	0.57
Selenium (Se)-Dissolved	-	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)-Dissolved	-	18.6	16.7	11.3	7.97
Uranium (U)-Dissolved	-	0.00034	0.00026	0.00041	0.00024
Zinc (Zn)-Dissolved	-	<0.004	<0.004	<0.004	<0.004

Notes: Refer to Table Endnotes (attached)

Analytical Table Footnotes: Analytical Results for Surface Water

- All concentrations in mg/L, except pH or as indicated.
- "<" less than the laboratory detection limit indicated.
- "-" means not analyzed or no standard or guideline applies.
- * RPDs are not normally calculated where one or more concentrations are less than five times MDL.
- (2) A Compendium of Approved and Working Water Quality Guidelines for BC (updated January 2010). Applicable water uses include Drinking Water (for toxicity, not odour/taste), and Freshwater Aquatic Life.
- (3) Nitrite BCAWWQG Guideline is Chloride dependent. Nitrite AW Standard is dissolved Chloride-dependent. The most conservative standard has been applied.
- (4) Guideline of 15 mg/L Pt for Drinking Water. Once background levels are established, colour should also not exceed 5 mg/L above background, to protect for Aquatic Life. This is considered a clearwater system (background less than 20 mg/L Pt.)
- (6) Working Water Quality Guidelines for Glycols
- (7) Standard is calculated based on the hardness dependent BCAWWQG formula, and has been calculated and shown for each individual result
- (8) Standards exist for Trivalent (III) and Hexavalent (VI) Chromium. As chromium results were not speciated, the most stringent standard has been applied.
- (9) Standard applies to all sites irrespective of water use.
- (10) pH-dependent maximum where instant pH < 6.5
- ** No hardness value was reported for the WTP Outlet sample from March 10, 2014. The Hardness value from the previous sampling event (3 March 14) has been used for calculating hardness-dependent guidelines.

<u>BOLD, UNDERLINE</u>	Laboratory Detection Limit exceeds one or more applicable Standard
BOLD, BLUE SHADING	Concentration greater than BCAWWQG Guideline
BOLD, BEIGE SHADING	Concentration greater than BCAWWQG Chronic Guideline
RED FONT	Concentration less than laboratory detection limit (Formula 0.5MRL utilized for statistical analysis)