

SNP STATION: 02-02

NORTH PILE DRAINAGE COLLECTION DITCH

Date	6/19/2020	6/29/2020	7/13/2020	7/13/2020	7/27/2020	8/10/2020	8/10/2020	8/17/2020
Sample Type	Sample	Sample	Sample	Travel Blank	Sample	Sample	Duplicate	Sample
Lab Reference	L2465217-2	L2468657-2	L2474412-2	L2474412-3	L2480766-2	L2487109-2	L2487109-4	L2490400-2
Alkalinity -Tot (CaCO3) (mg/L)	49	42.1	46.5	<1.0		44.8	62.7	64.8
Aluminum (Al) - Dis (µg/L)	26.3	23.1	24.6	<3.00		28.3	15.4	19
Aluminum (Al) - Tot (µg/L)	309	736	123	<3.00		69.8	61.5	101
Ammonia-N (mg/L)	0.0696	0.0306	0.0181	<0.0050		0.0299	0.048	0.094
Antimony (Sb) - Dis (µg/L)	<0.10	<0.10	0.11	<0.10		0.15	<0.10	0.13
Antimony (Sb) - Tot (µg/L)	<0.10	<0.10	0.12	<0.10		0.16	0.11	0.12
Arsenic (As) - Dis (µg/L)	0.12	0.17	0.11	<0.03		0.17	0.15	0.16
Arsenic (As) - Tot (µg/L)	0.2	0.17	0.14	<0.03		0.22	0.25	0.2
Barium (Ba) - Dis (µg/L)	19.5	17.5	22.2	<0.10		21.1	26.8	19.7
Barium (Ba) - Tot (µg/L)	22.8	20.6	23.7	<0.10		22.1	26.5	20.7
Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Beryllium (Be) - Tot (µg/L)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cadmium (Cd) - Dis (µg/L)	<0.02	0.01	<0.02	<0.01	<0.02	<0.03	<0.03	<0.02
Cadmium (Cd) - Tot (µg/L)	0.02	0.02	0.02	<0.01	<0.02	<0.03	<0.02	<0.01
Calcium (Ca) - Dis (mg/L)	58.2	54	68.6	<0.050		51.2	68.9	46.6
Carbon, Organic Total (mg/L)	6.24	5.87	6.4	<0.50		6.48	5.88	6.36
Cesium (Cs) - Dis (µg/L)	0.03	0.03	0.03	<0.01		0.03	0.05	0.03
Cesium (Cs) - Tot (µg/L)	0.06	0.07	0.04	<0.01		0.03	0.05	0.04
Chloride (mg/L)	54.7	43.3	51.5	<0.50		43.4	45.8	21.5
Chromium (Cr) - Dis (µg/L)	0.16	0.11	<0.10	<0.10		0.16	0.11	0.21
Chromium (Cr) - Tot (µg/L)	1.25	1.59	0.94	<0.10		0.33	0.41	0.58
Cobalt (Co) - Dis (µg/L)	0.66	0.65	0.42	<0.10		0.35	0.51	0.64
Cobalt (Co) - Tot (µg/L)	1	1.14	0.71	<0.10		0.41	0.66	0.73
Conductivity [Field] (µS/cm)	743	622	776			624	786	547
Conductivity [Lab] (µS/cm)	746	684	730	<2.0		659	786	558
Copper (Cu) - Dis (µg/L)	1.57	1.9	1.64	<0.50		2.1	2.42	3.03
Copper (Cu) - Tot (µg/L)	1.94	1.84	1.77	<0.50		2.08	1.86	2.81
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	I (<0.10)	I (<0.10)						
F2 (C10-C16 Hydrocarbons) (mg/L)	I (<0.30)	<0.30	I (<0.30)	I (<0.30)	<0.30	I (<0.30)	I (<0.30)	I (<0.30)
Fluoride (F) (mg/L)	0.28	0.272	0.35	<0.020		0.369	0.46	0.357
Hardness (as mg CaCO3/L)	278	258	318	<0.50		236	326	217
Iron (Fe) - Dis (µg/L)	31	24	<10.00	<10.00		30	12	67
Iron (Fe) - Tot (µg/L)	372	559	128	<10.00		83	92	220
Lead (Pb) - Dis (µg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb) - Tot (µg/L)	0.25	0.35	0.06	<0.05		0.07	<0.05	0.08
Lithium (Li) - Dis (µg/L)	0.0049	0.0049	0.0054	<0.0010		0.0048	0.0069	0.0041
Magnesium (Mg) - Dis (mg/L)	32.3	29.9	35.6	<0.0050		26.2	37.3	24.3
Manganese (Mn) - Dis (µg/L)	53.6	43.2	12.3	<0.10		16.4	36.7	38.6
Manganese (Mn) - Tot (µg/L)	63.5	59.1	27	<0.10		19.3	39.2	40.3
Mercury (Hg) - Tot (µg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum (Mo) - Dis (µg/L)	16.6	9.67	19.3	<0.05		22.4	18.1	19.3
Molybdenum (Mo) - Tot (µg/L)	18.8	11.1	19.9	<0.05		23.1	19.2	18.5
Nickel (Ni) - Dis (µg/L)	16.1	16.7	10.1	<0.10		9.82	11.4	13.4
Nickel (Ni) - Tot (µg/L)	19.6	22.6	12.9	<0.10		10.8	12.9	14.2
Nitrate-N (mg/L)	I (18.0)	I (14.3)	I (17.5)	I (<0.0050)	I (13.1)	I (17.2)	I (17.2)	I (12.5)
Nitrite-N (mg/L)	I (0.0383)	I (0.0365)	I (0.0310)	I (<0.0010)	I (0.0321)	I (0.0335)	I (0.0294)	I (0.0263)
Orthophosphate (PO4-P) (mg/L)	I (0.0011)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (0.0013)	I (<0.0010)	I (0.0130)
pH [Field]	6.79	6.93	7.31			7.01	7.35	6.59
pH [Lab]	7.56	7.68	7.77	5.57		7.74	7.74	7.66
Phosphorus, Total (mg/L)	0.0229	0.0134	0.0178	<0.0010		0.0231	0.0096	0.0249
Phosphorus, Total Dissolved (mg/L)	0.005	0.0048	0.0021	<0.0010		0.0048	0.0041	0.0088
Potassium (K) - Dis (mg/L)	7.75	6.21	8.64	<0.050		7.92	8.66	6.97
Rubidium (Rb) - Dis (µg/L)	8.1	7.03	8.37	<0.20		8.89	10.4	8.29

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Date	6/19/2020	6/29/2020	7/13/2020	7/13/2020	7/27/2020	8/10/2020	8/10/2020	8/17/2020
Sample Type	Sample	Sample	Sample	Travel Blank	Sample	Sample	Duplicate	Sample
Lab Reference	L2465217-2	L2468657-2	L2474412-2	L2474412-3	L2480766-2	L2487109-2	L2487109-4	L2490400-2
Rubidium (Rb) - Tot (µg/L)	9.01	7.63	8.58	<0.20	8.61	10.3	10.1	8.35
Selenium (Se) - Dis (µg/L)	0.17	0.12	0.15	<0.10	0.19	0.2	0.22	0.16
Selenium (Se) - Tot (µg/L)	0.15	0.22	0.16	<0.10	0.21	0.23	0.24	0.16
Sodium (Na) -Dis (µg/L)	28700	25100	27600	<10.00	24700	31600	32800	20600
Sodium (Na) -Dis (mg/L)	28.7	25.1	27.6	<0.010	24.7	31.6	32.8	20.6
Sodium (Na) -Tot (µg/L)	29700	24300	28200	<30.00	24200	32400	32000	21100
Strontium (Sr) - Dis (µg/L)	565	430	552	<0.20	505	563	582	387
Strontium (Sr) - Tot (µg/L)	618	494	538	<0.20	512	579	600	371
Thallium (Tl) - Dis (µg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium (Tl) - Tot (µg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium (Ti) - Dis (µg/L)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Titanium (Ti) - Tot (µg/L)	15	16	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Toluene (mg/L)	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045
Total Dissolved Solids - Measured (mg/L)	l (564)	l (489)	l (565)	l (<10)	454	606	610	400
Total Kjeldahl Nitrogen (mg/L)	0.382	0.767	0.621	<0.050	0.574	0.459	0.42	0.869
Total Suspended Solids (mg/L)	l (6.7)	l (9.1)	l (2.8)	l (<1.0)	3	4.2	3.1	4.4
Turbidity [Lab] (NTU)	4.68	6.48	0.58	<0.1	1.1	0.73	0.96	1.46
Uranium (U) - Dis (µg/L)	3.88	3.02	2.75	<0.01	2.24	2.56	2.73	2.59
Uranium (U) - Tot (µg/L)	4.05	3.54	3	<0.01	2.37	2.67	2.68	2.68
Vanadium (V) - Dis (µg/L)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Vanadium (V) - Tot (µg/L)	<1.00	1.4	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Water Temperature [Field] (°C)	10.8	7.1	13.6		14.9	16.2	16.2	12.8
Xylene (mg/L)	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075
Zinc (Zn) - Dis (µg/L)	<3.00	<3.00	<3.00	<3.00	<3.00	4.8	<3.00	5.9
Zinc (Zn) - Tot (µg/L)	3.5	4.2	<3.00	<3.00	<3.00	3.1	3.5	5.7

SNP STATION: 02-05

UNCONTROLLED SURFACE RUNODD AT BULK SAMPLE MINE ROCK PAD

Date	7/7/2020	7/15/2020	8/16/2020
Sample Type	Sample	Sample	Sample
Lab Reference	L2474539-1	L2476553-2	L2490420-1
Alkalinity -Tot (CaCO3) (mg/L)	23.7	14.5	27.5
Aluminum (Al) - Dis (µg/L)	29.5	173	32.2
Aluminum (Al) - Tot (µg/L)	275	1040	104
Ammonia-N (mg/L)	0.0053	0.0204	0.0075
Antimony (Sb) - Dis (µg/L)	0.11	0.15	0.12
Antimony (Sb) - Tot (µg/L)	0.15	0.14	0.11
Arsenic (As) - Dis (µg/L)	0.11	0.19	0.12
Arsenic (As) - Tot (µg/L)	0.16	0.28	0.12
Barium (Ba) - Dis (µg/L)	25.5	15.1	17.2
Barium (Ba) - Tot (µg/L)	27.4	22.7	18.5
Benzene (mg/L)	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.20	<0.20	<0.20
Beryllium (Be) - Tot (µg/L)	<0.20	<0.20	<0.20
Cadmium (Cd) - Dis (µg/L)	0.06	0.06	0.04
Cadmium (Cd) - Tot (µg/L)	0.06	0.07	0.04
Calcium (Ca) - Dis (µg/L)	30700	16600	18400
Calcium (Ca) - Dis (mg/L)	30.7	16.6	18.4
Carbon, Organic Total (mg/L)	3.5	8.88	5.76
Cesium (Cs) - Dis (µg/L)	0.02	0.02	0.02
Cesium (Cs) - Tot (µg/L)	0.04	0.17	0.02
Chloride (mg/L)	7.87	2.08	2.76
Chromium (Cr) - Dis (µg/L)	0.16	0.53	0.23
Chromium (Cr) - Tot (µg/L)	1.02	2.84	0.46
Cobalt (Co) - Dis (µg/L)	4.26	5.6	1.99
Cobalt (Co) - Tot (µg/L)	4.82	7.08	2.4
Conductivity [Field] (µS/cm)	353	182.6	229
Conductivity [Lab] (µS/cm)	359	186	226
Copper (Cu) - Dis (µg/L)	6.31	13.5	6.35
Copper (Cu) - Tot (µg/L)	10.4	20.1	9.71
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	<0.10	<0.10	
F2 (C10-C16 Hydrocarbons) (mg/L)	I (<0.30)	I (<0.30)	I (<0.30)
Fluoride (F) (mg/L)	0.15	0.145	0.154
Hardness (as mg CaCO3/L)	147	74.4	92.2
Iron (Fe) - Dis (µg/L)	16	80	52
Iron (Fe) - Tot (µg/L)	312	1090	165
Lead (Pb) - Dis (µg/L)	0.06	0.05	<0.05
Lead (Pb) - Tot (µg/L)	0.2	0.44	0.07
Lithium (Li) - Dis (µg/L)	0.0029	0.0052	0.0025
Magnesium (Mg) - Dis (mg/L)	17	8.01	11.2
Manganese (Mn) - Dis (µg/L)	25.9	35.6	24.4
Manganese (Mn) - Tot (µg/L)	30.2	50.6	27
Mercury (Hg) - Tot (µg/L)		<0.00050	<0.00050
Molybdenum (Mo) - Dis (µg/L)	1.9	3.37	2.72
Molybdenum (Mo) - Tot (µg/L)	2.01	3.6	2.87

SNP STATION: 02-05

UNCONTROLLED SURFACE RUNODD AT BULK SAMPLE MINE ROCK PAD

Date	7/7/2020	7/15/2020	8/16/2020
Sample Type	Sample	Sample	Sample
Lab Reference	L2474539-1	L2476553-2	L2490420-1
Nickel (Ni) - Dis (µg/L)	18.3	14.9	12.6
Nickel (Ni) - Tot (µg/L)	23.5	19.7	14.1
Nitrate-N (mg/L)	I (1.15)	I (0.817)	I (0.396)
Nitrite-N (mg/L)	I (0.0036)	I (0.0014)	I (0.0013)
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (0.0025)	I (<0.0010)
pH [Field]	7.04	6.99	6.67
pH [Lab]	7.26	6.93	7.31
Phosphorus, Total (mg/L)	0.0036	0.0244	0.0074
Phosphorus, Total Dissolved (mg/L)	<0.020	0.0078	0.0039
Potassium (K) - Dis (µg/L)	4640	3330	4120
Rubidium (Rb) - Dis (µg/L)	5.86	4.14	5.44
Rubidium (Rb) - Tot (µg/L)	6.46	6.35	6.14
Selenium (Se) - Dis (µg/L)	0.15	0.11	0.14
Selenium (Se) - Tot (µg/L)	0.17	0.13	0.13
Sodium (Na) -Dis (µg/L)	5370	3240	4350
Sodium (Na) -Dis (mg/L)	5.37	3.24	4.35
Sodium (Na) -Tot (µg/L)	5210	3350	4470
Strontium (Sr) - Dis (µg/L)	106	66.6	83.4
Strontium (Sr) - Tot (µg/L)	118	71.9	84.4
Thallium (Tl) - Dis (µg/L)	<0.05	<0.05	<0.05
Thallium (Tl) - Tot (µg/L)	<0.05	<0.05	<0.05
Titanium (Ti) - Dis (µg/L)	<1.00	1.5	<1.00
Titanium (Ti) - Tot (µg/L)	12	52	<10.00
Toluene (mg/L)	<0.00045	<0.00045	<0.00045
Total Dissolved Solids - Measured (mg/L)	I (271)	140	169
Total Kjeldahl Nitrogen (mg/L)	0.308	0.384	0.257
Total Suspended Solids (mg/L)	I (3.6)	8.5	1.2
Turbidity [Lab] (NTU)	I (5.08)	I (19.0)	I (1.84)
Uranium (U) - Dis (µg/L)	0.08	0.26	0.11
Uranium (U) - Tot (µg/L)	0.13	0.36	0.13
Vanadium (V) - Dis (µg/L)	<1.00	<1.00	<1.00
Vanadium (V) - Tot (µg/L)	<1.00	2.4	<1.00
Water Temperature [Field] (°C)	9.1	9.4	11.9
Xylene (mg/L)	<0.00075	<0.00075	<0.00075
Zinc (Zn) - Dis (µg/L)	12.7	14.8	9.1
Zinc (Zn) - Tot (µg/L)	16.4	19.8	8.2

SNP STATION: 02-06

UNCONTROLLED SURFACE RUNOFF AT QUARRY SITE

Date	7/7/2020	7/15/2020	8/16/2020
Sample Type	Sample	Sample	Sample
Lab Reference	L2474539-2	L2476553-1	L2490420-2
Alkalinity -Tot (CaCO3) (mg/L)	38.9	29.8	43.3
Aluminum (Al) - Dis (µg/L)	17.7	12.6	87
Aluminum (Al) - Tot (µg/L)	1880	2390	1140
Ammonia-N (mg/L)	0.0063	0.0075	0.0083
Antimony (Sb) - Dis (µg/L)	0.35	0.28	0.33
Antimony (Sb) - Tot (µg/L)	0.37	0.31	0.32
Arsenic (As) - Dis (µg/L)	0.25	0.39	0.17
Arsenic (As) - Tot (µg/L)	0.4	0.7	0.29
Barium (Ba) - Dis (µg/L)	11.3	6.59	11.7
Barium (Ba) - Tot (µg/L)	27.4	29.8	22.8
Benzene (mg/L)	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.20	<0.20	<0.20
Beryllium (Be) - Tot (µg/L)	<0.20	<0.20	<0.20
Cadmium (Cd) - Dis (µg/L)	<0.01	<0.02	<0.01
Cadmium (Cd) - Tot (µg/L)	0.01	<0.02	<0.01
Calcium (Ca) - Dis (µg/L)	33600	17600	33100
Calcium (Ca) - Dis (mg/L)	33.6	17.6	33.1
Carbon, Organic Total (mg/L)	2.24	3.28	2.4
Cesium (Cs) - Dis (µg/L)	<0.01	<0.01	0.01
Cesium (Cs) - Tot (µg/L)	0.23	0.28	0.12
Chloride (mg/L)	0.97	0.72	1.17
Chromium (Cr) - Dis (µg/L)	0.16	0.17	0.71
Chromium (Cr) - Tot (µg/L)	8.24	10.2	5.15
Cobalt (Co) - Dis (µg/L)	<0.10	0.11	0.13
Cobalt (Co) - Tot (µg/L)	2.7	2.99	1.48
Conductivity [Field] (µS/cm)	231	142	232
Conductivity [Lab] (µS/cm)	230	143	227
Copper (Cu) - Dis (µg/L)	1.79	1.98	1.05
Copper (Cu) - Tot (µg/L)	4.09	5.04	2.56
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	<0.10	<0.10	
F2 (C10-C16 Hydrocarbons) (mg/L)	(<0.30)	(<0.30)	(<0.30)
Fluoride (F) (mg/L)	0.291	0.286	0.291
Hardness (as mg CaCO3/L)	94.7	56.4	95.1
Iron (Fe) - Dis (µg/L)	<10.00	<10.00	93
Iron (Fe) - Tot (µg/L)	2760	3150	1550
Lead (Pb) - Dis (µg/L)	<0.05	<0.05	<0.05
Lead (Pb) - Tot (µg/L)	1.23	1.3	0.56
Lithium (Li) - Dis (µg/L)	0.0114	0.0095	0.0119
Lithium (Li) - Tot (µg/L)			
Magnesium (Mg) - Dis (mg/L)	2.6	3.04	3.04
Manganese (Mn) - Dis (µg/L)	1.56	2.81	2.18
Manganese (Mn) - Tot (µg/L)	47	50.9	24.4
Mercury (Hg) - Tot (µg/L)		<0.00025	<0.00050
Molybdenum (Mo) - Dis (µg/L)	5.2	13.8	5.59

SNP STATION: 02-06

UNCONTROLLED SURFACE RUNOFF AT QUARRY SITE

Date	7/7/2020	7/15/2020	8/16/2020
Sample Type	Sample	Sample	Sample
Lab Reference	L2474539-2	L2476553-1	L2490420-2
Molybdenum (Mo) - Tot (µg/L)	4.64	14.1	5.81
Nickel (Ni) - Dis (µg/L)	1.29	2.04	2.47
Nickel (Ni) - Tot (µg/L)	28.7	32.9	17.2
Nitrate-N (mg/L)	I (0.345)	I (2.19)	I (0.0142)
Nitrite-N (mg/L)	I (0.0038)	I (0.0074)	I (<0.0010)
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (0.0022)	I (0.0013)
pH [Field]	7.38	7.39	7.54
pH [Lab]	7.66	7.64	8.06
Phosphorus, Total (mg/L)	0.0362	0.0366	0.021
Phosphorus, Total Dissolved (mg/L)	<0.020	0.003	0.0032
Potassium (K) - Dis (µg/L)	6090	3220	5700
Potassium (K) - Dis (mg/L)	6.09	3.22	5.7
Rubidium (Rb) - Dis (µg/L)	3.79	3.17	4.54
Rubidium (Rb) - Tot (µg/L)	7.85	7.59	6.6
Selenium (Se) - Dis (µg/L)	<0.10	<0.10	<0.10
Selenium (Se) - Tot (µg/L)	<0.10	<0.10	<0.10
Sodium (Na) -Dis (µg/L)	2860	2340	3230
Sodium (Na) -Tot (µg/L)	3160	2680	3400
Strontium (Sr) - Dis (µg/L)	143	59.5	146
Strontium (Sr) - Tot (µg/L)	166	67	154
Thallium (Tl) - Dis (µg/L)	<0.05	<0.05	<0.05
Thallium (Tl) - Tot (µg/L)	<0.05	<0.05	<0.05
Titanium (Ti) - Dis (µg/L)	<1.00	<1.00	4.2
Titanium (Ti) - Tot (µg/L)	112	138	64
Toluene (mg/L)	<0.00045	<0.00045	<0.00045
Total Dissolved Solids - Measured (mg/L)	I (181)	126	165
Total Kjeldahl Nitrogen (mg/L)	0.164	0.354	0.112
Total Suspended Solids (mg/L)	I (16.1)	12.1	4.3
Turbidity [Lab] (NTU)	I (58.9)	I (63.6)	I (36.5)
Uranium (U) - Dis (µg/L)	4.7	2.21	3.62
Uranium (U) - Tot (µg/L)	5.46	2.56	3.83
Vanadium (V) - Dis (µg/L)	<1.00	<1.00	<1.00
Vanadium (V) - Tot (µg/L)	4.3	5	2.7
Water Temperature [Field] (°C)	12.3	11.6	16
Xylene (mg/L)	<0.00075	<0.00075	<0.00075
Zinc (Zn) - Dis (µg/L)	<3.00	<3.00	<3.00
Zinc (Zn) - Tot (µg/L)	14.3	15.3	6.9

SNP STATION: 02-14

WATER MANAGEMENT POND (STILLING WELL NEAR THE PUMPHOUSE)

Date	6/19/2020	6/29/2020	6/29/2020	7/13/2020	7/27/2020	8/10/2020	8/17/2020
Sample Type	Sample	Sample	Travel Blank	Sample	Sample	Sample	Sample
Lab Reference	L2465217-1	L2468657-1	L2468657-3	L2474412-4	L2480766-3	L2487109-3	L2490400-1
Alkalinity -Tot (CaCO3) (mg/L)	60	55.1	<1.0	56.1	54.6	60.9	75.5
Aluminum (Al) - Dis (µg/L)	16.6			17.8	24.2	31.7	9.4
Aluminum (Al) - Tot (µg/L)	507			51.5	190	76.9	142
Ammonia-N (mg/L)	0.0098	0.0129	0.0059	0.0252	0.0381	0.0378	0.114
Antimony (Sb) - Dis (µg/L)	0.15			0.13	0.16	0.14	0.16
Antimony (Sb) - Tot (µg/L)	0.16			0.17	0.17	0.16	0.16
Arsenic (As) - Dis (µg/L)	0.17			0.14	0.21	0.2	0.22
Arsenic (As) - Tot (µg/L)	0.33			0.17	0.26	0.28	0.21
Barium (Ba) - Dis (µg/L)	19.7			23.2	24.1	26.4	25.7
Barium (Ba) - Tot (µg/L)	26.6			24.5	31.4	25.9	27.7
Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.20			<0.20	<0.20	<0.20	<0.20
Beryllium (Be) - Tot (µg/L)	<0.20			<0.20	<0.20	<0.20	<0.20
Cadmium (Cd) - Dis (µg/L)	<0.01			<0.02	<0.02	<0.03	<0.02
Cadmium (Cd) - Tot (µg/L)	0.01			0.01	<0.02	<0.02	<0.01
Calcium (Ca) - Dis (µg/L)	39600			62100	49400	57100	62700
Calcium (Ca) - Dis (mg/L)	39.6	49.7	<0.050	62.1	49.4	57.1	62.7
Carbon, Organic Total (mg/L)	5.55	5.95	<0.50	5.7	5.98	6.82	6.44
Cesium (Cs) - Dis (µg/L)	0.03			0.03	0.04	0.04	0.04
Cesium (Cs) - Tot (µg/L)	0.06			0.04	0.05	0.05	0.05
Chloride (mg/L)	35.2	42.6	<0.50	49.4	42.9	39.8	44.6
Chromium (Cr) - Dis (µg/L)	0.16			<0.10	0.22	0.34	0.16
Chromium (Cr) - Tot (µg/L)	6.95			0.66	3.93	0.92	2.11
Cobalt (Co) - Dis (µg/L)	0.22			0.33	0.33	0.29	0.49
Cobalt (Co) - Tot (µg/L)	1.67			0.47	1.01	0.43	0.78
Conductivity [Field] (µS/cm)	483		605	734	629	729	771
Conductivity [Lab] (µS/cm)	493	643	<2.0	679	641	660	728
Copper (Cu) - Dis (µg/L)	2.48			1.76	2.05	2.32	2.3
Copper (Cu) - Tot (µg/L)	2.98			1.86	2.4	2.27	2.27
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	I (<0.10)	I (<0.10)	I (<0.10)				
F2 (C10-C16 Hydrocarbons) (mg/L)	I (<0.30)	<0.30	<0.30	I (<0.30)	<0.30	I (<0.30)	I (<0.30)
Fluoride (F) (mg/L)	0.302	0.314	<0.020	0.35	0.398	0.415	0.44
Hardness (as mg CaCO3/L)	182	234	<0.50	281	233	271	288
Iron (Fe) - Dis (µg/L)	11			<10.00	24	47	23
Iron (Fe) - Tot (µg/L)	873			77	416	140	292
Lead (Pb) - Dis (µg/L)	<0.05			<0.05	<0.05	0.06	<0.05
Lead (Pb) - Tot (µg/L)	0.48			0.05	0.16	0.11	0.17
Lithium (Li) - Dis (µg/L)	0.0066	0.0052	<0.0010	0.0056	0.0058	0.0057	0.0058
Lithium (Li) - Tot (µg/L)							
Magnesium (Mg) - Dis (mg/L)	20.1	26.7	<0.0050	30.5	26.6	31.2	31.9
Manganese (Mn) - Dis (µg/L)	4.57			7.21	9.78	6.96	32.7
Manganese (Mn) - Tot (µg/L)	38.7			13	19.4	12.1	41.6
Mercury (Hg) - Tot (µg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

SNP STATION: 02-14

WATER MANAGEMENT POND (STILLING WELL NEAR THE PUMPHOUSE)

Date	6/19/2020	6/29/2020	6/29/2020	7/13/2020	7/27/2020	8/10/2020	8/17/2020
Sample Type	Sample	Sample	Travel Blank	Sample	Sample	Sample	Sample
Lab Reference	L2465217-1	L2468657-1	L2468657-3	L2474412-4	L2480766-3	L2487109-3	L2490400-1
Molybdenum (Mo) - Dis (µg/L)	12.2			18	20.6	20.6	20.4
Molybdenum (Mo) - Tot (µg/L)	13.7			18.5	21.4	22	21.1
Nickel (Ni) - Dis (µg/L)	17.4			11.7	12.8	13.1	16.9
Nickel (Ni) - Tot (µg/L)	38.2			14.6	22.9	14.8	20.9
Nitrate-N (mg/L)	I (6.27)	I (10.3)	I (<0.0050)	I (14.1)	I (11.2)	I (12.7)	I (13.3)
Nitrite-N (mg/L)	I (0.0331)	I (0.0463)	I (<0.0010)	I (0.0445)	I (0.0462)	I (0.0683)	I (0.0668)
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (0.0010)
o-Xylene (µg/L)							
pH [Field]	7.65		8.1	7.7	7.4	7.38	7.91
pH [Lab]	7.92	8.11	5.47	8	8	7.91	7.99
Phosphorus, Total (mg/L)	0.0558	0.0126	<0.0010	0.0082	0.036	0.012	0.0219
Phosphorus, Total Dissolved (mg/L)	0.0065	0.0036	<0.0010	0.0021	0.0056	0.0066	0.0067
Potassium (K) - Dis (µg/L)	6040	6690		8030	7850	8320	8390
Rubidium (Rb) - Dis (µg/L)	7.04			8.51	9.14	11.1	10.3
Rubidium (Rb) - Tot (µg/L)	7.67			9.15	9.3	10.1	10.6
Selenium (Se) - Dis (µg/L)	<0.10			0.12	0.19	0.18	0.18
Selenium (Se) - Tot (µg/L)	0.1			0.12	0.13	0.21	0.17
Sodium (Na) -Dis (mg/L)	17.7	21.9	<0.010	24.2	24.2	27.2	28.2
Sodium (Na) -Tot (µg/L)	18700			26700	23700	27400	28700
Strontium (Sr) - Dis (µg/L)	370			520	493	522	565
Strontium (Sr) - Tot (µg/L)	407			516	497	530	546
Thallium (Tl) - Dis (µg/L)	<0.05			<0.05	<0.05	<0.05	<0.05
Thallium (Tl) - Tot (µg/L)	<0.05			<0.05	<0.05	<0.05	<0.05
Titanium (Ti) - Dis (µg/L)	<1.00			<1.00	<1.00	<1.00	<1.00
Titanium (Ti) - Tot (µg/L)	20			<10.00	11	<10.00	<10.00
Toluene (mg/L)	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045
Total Dissolved Solids - Measured (mg/L)	I (346)	I (434)	I (<10)	I (522)	413	491	496
Total Kjeldahl Nitrogen (mg/L)	0.611	0.739	<0.050	0.617	0.605	0.63	0.811
Total Suspended Solids (mg/L)	I (16.3)	I (5.8)	I (<1.0)	I (2.0)	13.2	4.7	6.3
Turbidity [Lab] (NTU)	I (15.7)	I (1.6)	I (<0.10)	I (0.56)	I (3.42)	I (1.59)	I (6.41)
Uranium (U) - Dis (µg/L)	2.57			2.84	2.52	2.23	3
Uranium (U) - Tot (µg/L)	2.74			3.14	2.67	2.3	3.18
Vanadium (V) - Dis (µg/L)	<1.00			<1.00	<1.00	<1.00	<1.00
Vanadium (V) - Tot (µg/L)	1.6			<1.00	1.1	<1.00	<1.00
Water Temperature [Field] (°C)	14.1		15.1	16.4	16.9	18.2	12.2
Xylene (mg/L)	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075
Zinc (Zn) - Dis (µg/L)	<3.00			<3.00	<3.00	<3.00	<3.00
Zinc (Zn) - Tot (µg/L)	3.5			<3.00	<3.00	<3.00	<3.00

SNP STATION: 02-15 (Monthly)
WATER INTAKE from SNAP Lake

Date	6/16/2020	6/28/2020	7/6/2020	7/7/2020	7/7/2020	8/14/2020	8/14/2020	8/14/2020
Sample Type	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample
Lab Reference	L2462744-1	L2467208-1	L2471045-1	L2470997-1	L2470742-1	L2489527-2	L2489527-1	L2489543-1
Alkalinity -Tot (CaCO3) (mg/L)	40.7			29.9		29.2	28.9	
Ammonia-N (mg/L)								
Calcium (Ca) - Dis (µg/L)	53300			40500		42500	42300	
Calcium (Ca) - Dis (mg/L)	53.3			40.5		42.5	42.3	
Carbon, Organic Total (mg/L)								
Chloride (mg/L)	124			87.1		87.6	87.6	
Conductivity [Field] (µS/cm)	512	424					357	
Conductivity [Lab] (µS/cm)								
E.Coli (MPN/100mL)		<1.0		<1.0		<1.0		
Fluoride (F) (mg/L)	0.164			0.143		0.149	0.149	
Hardness (as mg CaCO3/L)	165			125				116
Lithium (Li) - Dis (µg/L)								
Lithium (Li) - Tot (µg/L)								
Magnesium (Mg) - Dis (mg/L)	7.73			5.89		5.91	5.87	
Nitrate-N (mg/L)	I (0.0563)			I (0.0970)		I (0.105)	I (0.104)	
Nitrite-N (mg/L)	I (<0.0010)			I (<0.0010)		I (<0.0010)	I (<0.0010)	
Orthophosphate (PO4-P) (mg/L)								
pH [Field]	6.68	6.88					6.8	
Phosphorus, Total (mg/L)								<0.030
Phosphorus, Total Dissolved (mg/L)								
Potassium (K) - Dis (mg/L)	2.69			2.16		2.1	2.1	
Sodium (Na) -Dis (mg/L)	28.6			21.6		20.5	21.2	20.2
Sodium (Na) -Tot (µg/L)								18900
Total Dissolved Solids - Measured (mg/L)	I (397)			I (330)		I (341)	I (303)	
Total Kjeldahl Nitrogen (mg/L)								
Total Suspended Solids (mg/L)								
Water Temperature [Field] (°C)	9.3	9					16.9	

SNP STATION: 02-16i (Monthly)

SEWAGE EFFLUENT FROM SEWAGE TREATMENT PLANT PRIOR TO MIXING WITH WATER FROM WATER TREATMENT PLANT

Sample Point	SNP 02-16i	SNP 02-16i	SNP 02-16i	SNP 02-16i	SNP 02-16i
Date	6/30/2020	7/14/2020	7/28/2020	8/11/2020	8/18/2020
Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	200359-003	200417-005	200491-005	200555-004	200603-001
Ammonia-N (mg/L)	6.59	4.89	8.34	6.5	14.6
Carbon, Organic Total (mg/L)	22.3	20.3	17.1	15.3	20.9
Conductivity [Field] (µS/cm)	1134		956		966
Conductivity [Lab] (µS/cm)					
E.Coli (MPN/100mL)	<1.0	<1.0	<1.0	<1.0	<1.0
Fecal Coliform (CFU/100mL)	<1	<1	<1	<1	<1
Nitrate-N (mg/L)	I (2.49)	I (2.31)	I (2.17)	I (1.12)	1.48
Nitrite-N (mg/L)	I (0.827)	I (0.371)	I (0.470)	I (0.188)	0.42
Orthophosphate (PO4-P) (mg/L)	2.96	2.78	I (3.74)	I (3.29)	3.98
pH [Field]	7.39		7.32		7.02
pH [Lab]					
Phosphorus, Total (mg/L)	3.33	3.27	4.27	3.64	4.12
Total Kjeldahl Nitrogen (mg/L)	10.1	5.75	12.2	9.17	17.4
Total Suspended Solids (mg/L)	<3	4	I (<3)	10	I (10)
Water Temperature [Field] (°C)	18.7		21.1		18.4

PERMANENT WATER TREATMENT PLANT EFFLUENT

Date	6/20/2020	6/28/2020	6/30/2020	7/7/2020	7/14/2020	7/14/2020	7/22/2020	7/28/2020	8/4/2020	8/11/2020	8/17/2020
Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type	Field Blank	No Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	L2465207-1	XZ8574	L2468671-1	L2470977-1	L2474422-2	L2474422-1	L2480770-1	L2480770-2	L2483426-1	L2487115-1	L2489501-1
1,4-Difluorobenzene (SS) (%)	105.5		105.2	108.1	102.5	103.8	101.1	88.6			107.3
2-Bromobenzotrifluoride (%)	90.6		98.2	84.2	81.6	86.3	86	86.1	103.1	99.5	77.4
3,4-Dichlorotoluene (SS) (%)			86.8	102	111.1	109.2	109.7	89.3			
4-Bromofluorobenzene (SS) (%)	95.4		89.1	100	92.1	94.1	95.2	90.8			86.4
Alkalinity -Tot (CaCO3) (mg/L)	41.2	42.4	38.1	44.5	<1.0		57.7	57.1	53.7		75.2
Aluminum (Al) - Dis (mg/L)	0.0091				<0.0030		0.0166				0.0115
Aluminum (Al) - Tot (mg/L)	0.0637		0.0354	0.0415	<0.0030		0.0266	0.0542	0.0291		0.0941
Ammonia-N (mg/L)	0.0094	0.0079	0.0288	0.0255	<0.0050		0.0279	0.0276	0.0502	0.0298	0.0636 (0.109)
Antimony (Sb) - Dis (mg/L)	0.0001				<0.00010		0.00014				0.00017
Antimony (Sb) - Tot (mg/L)	0.0001		0.00011	0.00012	<0.00010		0.00016	0.00018	0.00015		0.00016
Arsenic (As) - Dis (mg/L)	0.000097				<0.000030		0.00017				0.000196
Arsenic (As) - Tot (mg/L)	0.000176		0.000332	0.000163	<0.000030		0.000191	0.000226	0.000177		0.00018
Barium (Ba) - Dis (mg/L)	0.0124				<0.00010		0.0246				0.0287
Barium (Ba) - Tot (mg/L)	0.0134		0.0149	0.0185	<0.00010		0.025	0.0238	0.0226		0.0305
Benzene (mg/L)	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
Beryllium (Be) - Dis (mg/L)	<0.00020				<0.00020		<0.00020				<0.00020
Beryllium (Be) - Tot (mg/L)	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			<0.00020
Biochemical Oxygen Demand (mg/L)	I (4.0)	I (<2.0)			<2.0		2				
Bismuth (Bi) - Dis (mg/L)	<0.000050				<0.000050		<0.000050				<0.000050
Bismuth (Bi) - Tot (mg/L)	<0.000050		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			<0.000050
Boron (B) - Dis (mg/L)	0.159				<0.0050		0.232				0.302
Boron (B) - Tot (mg/L)	0.17		0.207	0.188	<0.010		0.298	0.229	0.249		0.332
Bromide (Br) (mg/L)	0.301		0.367	0.452	<0.050		0.604	0.459	0.509		0.57
Cadmium (Cd) - Dis (mg/L)	<0.0000050				<0.0000050	<0.000020					<0.000010
Cadmium (Cd) - Tot (mg/L)	0.0000076		<0.0000050	<0.000010	<0.0000050	0.0000083	<0.000015	<0.000015			0.000015
Calcium (Ca) - Dis (mg/L)	30.2	38.8			<0.050		62.1				64.3
Calcium (Ca) - Tot (mg/L)	28.5		34.9	40.1	<0.050		60.4	47.8	48.9		65.8
Carbon, Dissolved Organic (mg/L)		3.9									6.79
Carbon, Organic Total (mg/L)	4.19	3.5	4.27	4.69	0.55	5.7	6.03	5.96	6.33	6.26	
Carbonate (CO3) (mg/L)		<0.50									
Cation - Anion Balance (%)			-0.1	-1			-0.9	-4.6			
Cation Sum (meq/L)			4.15	4.83			5.54	5.71			
Cesium (Cs) - Dis (mg/L)	0.00002				<0.000010	0.000035					0.000047
Cesium (Cs) - Tot (mg/L)	0.000023		0.000025	0.000027	<0.000010	0.000036	0.000034	0.000037			0.000046
Chloride (Cl) - Dissolved (mg/L)		36									
Chloride (mg/L)	24.9		29.7	35.8	<0.50		48.5	38.2	42.4		47.2
Chromium (Cr) - Dis (mg/L)	0.00027				<0.00010		0.00013				0.0002
Chromium (Cr) - Tot (mg/L)	0.00085		0.00024	0.00065	<0.00010		0.0003	0.00077	0.00026		0.00119
Cobalt (Co) - Dis (mg/L)	0.00016				<0.00010		0.00024				0.00028
Cobalt (Co) - Tot (mg/L)	0.00043		0.00026	0.0003	<0.00010		0.00028	0.00036	0.00022		0.0005
Conductivity [Field] (µS/cm)	382	513									
Conductivity [Lab] (µS/cm)	360	517	463	514	<2.0		701	577	626	626	716
Copper (Cu) - Dis (mg/L)	0.00142				<0.00050		0.0018				0.00197
Copper (Cu) - Tot (mg/L)	0.00171		0.00133	0.0015	<0.00050		0.00198	0.00222	0.00264		0.00236
E.Coli (MPN/100mL)											5.2
Ethylbenzene (mg/L)	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
F1 (C6-C10) (mg/L)			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			<0.10
F1-BTEX (mg/L)			I (<0.10)	<0.10	<0.10	<0.10	I (<0.10)	<0.10			
F2 (C10-C16 Hydrocarbons) (mg/L)	I (<0.30)	<0.10	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30			I (<0.30)
F3 (C16-C34 Hydrocarbons) (mg/L)											
F4 (C34-C50 Hydrocarbons) (mg/L)											
Fecal Coliform (CFU/100mL)			<1	4		<1	<1	21	3	1	5
Fluoride (F) (mg/L)	0.209	0.265	0.218	0.244	<0.020	0.35	0.389	0.391			0.42
Hardness (as mg CaCO3/L)	135	180		189	<0.50	289	221	227			298
Hardness, Dissolved (mg/L)		178									
Hydroxide (mg/L)		<0.50									
Ion Balance (%)		6.7									
Iron (Fe) - Dis (mg/L)	0.239				<0.010		0.023				0.038
Iron (Fe) - Tot (mg/L)	0.67		0.325	0.147	<0.010		0.05	0.112	0.048		0.271
Lead (Pb) - Dis (mg/L)	<0.000050				<0.000050	<0.000050	<0.000050				<0.000050
Lead (Pb) - Tot (mg/L)	0.000125		0.000054	0.000067	<0.000050	<0.000050	0.000076	0.000064			0.000127
Lithium (Li) - Dis (mg/L)	0.0033				<0.0010		0.0053				0.006
m & p-Xylene (µg/L)		<0.80									
Magnesium (Mg) - Dis (mg/L)	14.6	19.7			<0.0050		32.6				33.4
Magnesium (Mg) - Tot (mg/L)	16.3		18.8	21.7	<0.0050		33.4	24.8	25.4		33.3
Magnesium (mg/L)		21.4									
Manganese (Mn) - Dis (mg/L)	0.00435				<0.00010		0.00518				0.0166

PERMANENT WATER TREATMENT PLANT EFFLUENT

Date	6/20/2020	6/28/2020	6/30/2020	7/7/2020	7/14/2020	7/14/2020	7/22/2020	7/28/2020	8/4/2020	8/11/2020	8/17/2020
Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type	Field Blank	No Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	L2465207-1	XZ8574	L2468671-1	L2470977-1	L2474422-2	L2474422-1	L2480770-1	L2480770-2	L2483426-1	L2487115-1	L2489501-1
Manganese (Mn) - Tot (mg/L)	0.0192		0.0108	0.00749	<0.00010	0.00644	0.0042	0.00513			0.0241
Mercury (Hg) - Tot (µg/L)	<0.00050	<0.0019	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
meta- & para-Xylene (mg/L)	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
Methyl-tert-butylether (MTBE) (mg/L)	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
Molybdenum (Mo) - Dis (mg/L)	0.00863				<0.000050	0.0175					0.0204
Molybdenum (Mo) - Tot (mg/L)	0.00939		0.0104	0.0116	<0.000050	0.0189	0.0191	0.019			0.0208
Nickel (Ni) - Dis (mg/L)	0.0105				<0.00010	0.0131					0.0163
Nickel (Ni) - Tot (mg/L)	0.0143		0.0109	0.0129	<0.00010	0.014	0.0141	0.0115			0.0196
Nitrate (N) Dissolved (mg/L)		I (8.7)									
Nitrate+Nitrite-N (mg/L)	4.76	8.7	7.4	8.82	<0.0051	13.1	8.86	11.3	11.1	12.7	13.6
Nitrate-N (mg/L)	I (4.73)		I (7.36)	I (8.78)	I (<0.0050)	I (13.0)	I (8.81)	I (11.2)	I (11.0)	I (12.6)	13.5
Nitrite (N) Dissolved (mg/L)		I (0.038)									
Nitrite-N (mg/L)	I (0.0234)		I (0.0417)	I (0.0418)	I (<0.0010)	I (0.0492)	I (0.0450)	I (0.0427)	I (0.0636)	I (0.0671)	0.0856
Nitrogen (N), Total (mg/L)		9.4									
Oil and Grease (mg/L)	<5.0	<2.0									<1.0
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (0.0024)	0.0013
o-Xylene (mg/L)	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			<0.00050
pH [Field]	7.34	8.16									
pH [Lab]	7.64	7.4	7.88	7.76	5.18	7.89	8.08	7.93	7.98	7.82	8.04
Phosphorus, Dissolved (mg/L)	<0.30	0.0022			<0.30	<0.30					<0.30
Phosphorus, Total (mg/L)	0.0165	0.008	0.0066	0.0095	<0.0010	0.0055	0.0125	0.0106	0.0086	0.011	0.0161
Potassium (mg/L)	4.39		4.82	5.94	<0.050	7.38	7.03	6.95			9.08
Rubidium (Rb) - Dis (mg/L)	0.00508				<0.00020	0.00912					0.0115
Rubidium (Rb) - Tot (mg/L)	0.00505		0.00598	0.00704	<0.00020	0.00936	0.00891	0.00865			0.0113
Selenium (Se) - Dis (mg/L)	<0.00010				<0.00010	0.00016					0.00016
Selenium (Se) - Tot (mg/L)	<0.00010		<0.00010	<0.00010	<0.00010	0.00012	0.00015	0.00015			0.00027
Silica, Reactive (as SiO2) (mg/L)	1.36	1.3	0.88	1.09	<0.50	1.56	2.55	2.59			3.85
Silver (Ag) - Dis (mg/L)	<0.000010				<0.000010	<0.000010					<0.000010
Silver (Ag) - Tot (mg/L)	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010			<0.000010
Sodium (Na) - Dis (mg/L)	13.5	17.3			<0.010	26.1					29.5
Sodium (Na) - Tot (mg/L)	13.2	18.9	16.6	20.2	<0.030	27.5	21.4	22.9			28.7
Strontium (Sr) - Dis (mg/L)	0.257				<0.00020	0.528					0.585
Strontium (Sr) - Tot (mg/L)	0.27		0.334	0.359	<0.00020	0.534	0.407	0.421			0.588
Sulphate (mg/L)	79.7		97.1	114	<0.30	160	133	152			185
TEH (C10-C30) (mg/L)	<0.25								<0.25	<0.25	<0.25
Thallium (Tl) - Dis (mg/L)	<0.000050				<0.000050	<0.000050					<0.000050
Thallium (Tl) - Tot (mg/L)	<0.000050		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			<0.000050
Tin (Sn) - Dis (mg/L)	<0.00010				<0.00010	<0.00010					<0.00010
Tin (Sn) - Tot (mg/L)	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			<0.00010
Titanium (Ti) - Dis (mg/L)	0.0026				<0.0010	<0.0010					<0.0010
Titanium (Ti) - Tot (mg/L)	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			<0.010
Toluene (mg/L)	<0.00045		<0.00045	<0.00045	<0.00045	<0.00045	<0.00045	<0.00045			<0.00045
Total Dissolved Solids - Calculated (mg/L)		307	262	309			353	387			
Total Dissolved Solids - Measured (mg/L)	I (237)	321	287	304	<10	451	I (402)	I (423)	407	503	544
Total Kjeldahl Nitrogen (mg/L)	0.487	0.64	0.722	0.637	<0.050	0.486	0.765	0.633	0.673	0.724	0.793
Total Suspended Solids (mg/L)	I (4.1)	I (1.4)	I (2.6)	3	<1.0	<1.0	I (2.8)	1.7	1.4	2.7	4.3
Turbidity [Lab] (NTU)	I (2.36)	I (0.79)	I (1.2)	I (1.27)	I (<0.10)	I (0.65)	I (0.30)	I (1.33)	I (0.96)	I (0.92)	2.9
Uranium (U) - Dis (mg/L)	0.00177				<0.000010	0.00296					0.00327
Uranium (U) - Tot (mg/L)	0.00185		0.00227	0.00244	<0.000010	0.00317	0.00266	0.00239			0.00328
Vanadium (V) - Dis (mg/L)	<0.0010				<0.0010	<0.0010					<0.0010
Vanadium (V) - Tot (mg/L)	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			<0.0010
Volatile Hydrocarbons (VH6-10) (mg/L)			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			
VPH (C6-C10) (mg/L)			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			
Water Temperature [Field] (°C)	13.6	14.4									
Xylene (mg/L)	<0.00075		<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075			<0.00075
Zinc (Zn) - Dis (mg/L)	<0.0030				<0.0030	<0.0030					<0.0030
Zinc (Zn) - Tot (mg/L)	0.0035		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030			<0.0030

SNP STATION: 02-20d

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/27/2020		6/28/2020		7/16/2020		7/16/2020		8/16/2020
Sample Type	Sample	Duplicate	Sample	Duplicate	Duplicate	Sample	Lab Split Sample	Sample	Sample
Lab Reference	VA20A9906-001	VA20A9906-004	VA20A9906-009	VA20A9906-012	VA20B0833-009	VA20B0833-009	YC5128	YC5128	YL2000015-001
Alkalinity -Tot (CaCO3) (mg/L)			48.7	49.4	38.2	38.2	34	34	36.6
Aluminum (Al) - Dis (µg/L)			2.5	2.1	5.6	5.6	4.72	4.72	5.9
Aluminum (Al) - Tot (µg/L)			1.5	1.8	5.9	5.9	5.69	5.69	7
Ammonia-N (mg/L)			0.0282	0.0315	0.0078	0.0078	0.0073	0.0073	0.0111
Antimony (Sb) - Dis (µg/L)			<0.020	<0.020	0.022	0.022	0.027	0.027	0.024
Antimony (Sb) - Tot (µg/L)			0.026	0.022	0.02	0.02	<0.020	<0.020	0.024
Arsenic (As) - Dis (µg/L)			0.13	0.12	0.105	0.105	0.14	0.14	0.102
Arsenic (As) - Tot (µg/L)			0.148	0.146	0.109	0.109	0.14	0.14	0.104
Barium (Ba) - Dis (µg/L)			26	25.1	20.7	20.7	20.6	20.6	18.6
Barium (Ba) - Tot (µg/L)			28	27.5	21	21	20.7	20.7	18.7
Benzene (mg/L)			<0.00050	<0.00050	<0.00050	<0.00050	<0.00040	<0.00040	<0.00050
Beryllium (Be) - Dis (µg/L)			<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050
Beryllium (Be) - Tot (µg/L)			<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050
Boron (B) - Dis (µg/L)			64.8	61.4	54.5	54.5	53	53	49
Boron (B) - Tot (µg/L)			66.6	65.9	54.8	54.8	50	50	51.8
Cadmium (Cd) - Dis (µg/L)			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium (Cd) - Tot (µg/L)			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dis (µg/L)			66000	63900	54600	54600	51300	51300	52600
Calcium (Ca) - Dis (mg/L)			66	63.9	54.6	54.6	51.3	51.3	52.6
Carbon, Dissolved Organic (mg/L)			3.88	3.95	3.61	3.61	3	3	3.94
Carbon, Organic Total (mg/L)			4.07	3.96	3.47	3.47	3.3	3.3	3.19
Carbonaceous Biochemical Oxygen Demand (mg/L)					<2	<2			<2
Cesium (Cs) - Dis (µg/L)			0.0374	0.0371	0.0298	0.0298	<0.050	<0.050	0.037
Cesium (Cs) - Tot (µg/L)			0.037	0.0408	0.0334	0.0334	<0.050	<0.050	0.0321
Chloride (mg/L)			152	153	112	112			113
Chromium (Cr) - Dis (µg/L)			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium (Cr) - Tot (µg/L)			<0.10	<0.10	<0.10	<0.10	0.12	0.12	<0.10
Cobalt (Co) - Dis (µg/L)			0.0229	0.0196	0.0113	0.0113	0.014	0.014	0.0074
Cobalt (Co) - Tot (µg/L)			0.0317	0.0272	0.0249	0.0249	0.0271	0.0271	0.0252
Conductivity [Lab] (µS/cm)			656	673	520	520	518	518	502
Copper (Cu) - Dis (µg/L)			0.548	0.528	0.503	0.503	0.438	0.438	XM (0.749)
Copper (Cu) - Tot (µg/L)			0.568	0.566	0.457	0.457	0.455	0.455	0.555
E.Coli (MPN/100mL)					1	1	1 (1.0)	1 (1)	<1.0
Ethylbenzene (mg/L)			<0.00050	<0.00050	<0.00050	<0.00050	<0.00040	<0.00040	<0.00050
F1 (C6-C10) (mg/L)			<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
F2 (C10-C16 Hydrocarbons) (mg/L)			<0.10	<0.14	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride (F) (mg/L)			0.208	0.203	0.169	0.169	0.152	0.152	0.179
Hardness (as mg CaCO3/L)	195	196	203	196	163	163	150	159	160
Iron (Fe) - Dis (µg/L)			12	10.9	5.3	5.3	5.5	5.5	4.9
Iron (Fe) - Tot (µg/L)			22.6	21.2	21.3	21.3	20.6	20.6	18.8
Lead (Pb) - Dis (µg/L)			<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010
Lead (Pb) - Tot (µg/L)			<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010
Lithium (Li) - Dis (µg/L)			11.2	10.8	9.26	9.26	7.84	7.84	8.34
Lithium (Li) - Tot (µg/L)			11.2	11.3	9.02	9.02	8.07	8.07	8.35
Magnesium (Mg) - Dis (µg/L)			9300	8990	6430	6430	6500	6500	6860

SNP STATION: 02-20d

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/27/2020		6/28/2020		7/16/2020		7/16/2020		8/16/2020
Sample Type	Sample	Duplicate	Sample	Duplicate	Duplicate	Sample	Lab Split Sample	Sample	Sample
Lab Reference	VA20A9906-001	VA20A9906-004	VA20A9906-009	VA20A9906-012	VA20B0833-009	VA20B0833-009	YC5128	YC5128	YL2000015-001
Magnesium (Mg) - Dis (mg/L)			9.3	8.99	6.43	6.43	6.5	6.5	6.86
Manganese (Mn) - Dis (µg/L)	7.44	7.66	17.9	16.8	1.83	1.83	1.87	1.87	0.463
Manganese (Mn) - Tot (µg/L)	12.5	12.4	22.4	21.8	9.21	9.21	8.86	8.86	9.3
Mercury (Hg) - Tot (µg/L)			<0.00050	<0.00050	<0.00050	<0.00050	<0.0019	<0.0019	<0.00050
Molybdenum (Mo) - Dis (µg/L)			0.964	0.927	0.831	0.831	0.859	0.859	0.917
Molybdenum (Mo) - Tot (µg/L)			0.984	1.02	0.84	0.84	0.815	0.815	1.79
Nickel (Ni) - Dis (µg/L)			1.08	1.02	0.833	0.833	0.838	0.838	0.855
Nickel (Ni) - Tot (µg/L)			1.1	1.08	0.829	0.829	0.803	0.803	0.878
Nitrate-N (mg/L)			I (0.0577)	I (0.0577)	I (0.0453)	I (0.0453)			I (0.0712)
Nitrite-N (mg/L)			I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)			I (<0.0010)
Oil and Grease (mg/L)			<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0
Orthophosphate (PO4-P) (mg/L)			I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
pH [Lab]			7.42	7.68	7.16	7.16	6.96	6.96	7.79
Phosphorus, Total (mg/L)			0.0032	0.0035	0.0018	0.0018	<0.0010	<0.0010	0.0011
Phosphorus, Total Dissolved (mg/L)			0.0017	0.0023	<0.0010	<0.0010			<0.0010
Potassium (K) - Dis (µg/L)			3160	3120	2340	2340	2250	2250	2490
Rubidium (Rb) - Dis (µg/L)			4.28	4.23	3.3	3.3	3.29	3.29	3.6
Rubidium (Rb) - Tot (µg/L)			4.4	4.36	3.38	3.38	3.34	3.34	3.48
Selenium (Se) - Dis (µg/L)			<0.040	<0.040	0.044	0.044	<0.040	<0.040	<0.040
Selenium (Se) - Tot (µg/L)			0.04	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Sodium (Na) -Dis (µg/L)			35100	34800	26800	26800	25700	25700	25700
Sodium (Na) -Dis (mg/L)			35.1	34.8	26.8	26.8	25.7	25.7	25.7
Strontium (Sr) - Dis (µg/L)			898	864	720	720	733	733	667
Strontium (Sr) - Tot (µg/L)			947	962	742	742	720	720	652
Sulphate (mg/L)			25.8	25.9	18.8	18.8			20
Thallium (Tl) - Dis (µg/L)			0.0054	0.0055	0.0055	0.0055	0.004	0.004	0.0065
Thallium (Tl) - Tot (µg/L)			0.0052	0.0051	0.0052	0.0052	0.002	0.002	0.0066
Titanium (Ti) - Dis (µg/L)			<0.050	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050
Titanium (Ti) - Tot (µg/L)			<0.050	<0.050	0.064	0.064	<0.50	<0.50	<0.050
Toluene (mg/L)			<0.00050	<0.00050	<0.00050	<0.00050	<0.00040	<0.00040	<0.00050
Total Dissolved Solids - Calculated (mg/L)			322	320	244	244	255	255	244
Total Dissolved Solids - Measured (mg/L)			I (558)	I (543)	424	424	399	399	427
Total Kjeldahl Nitrogen (mg/L)			0.266	0.265	0.234	0.234	0.22	0.22	0.248
Total Suspended Solids (mg/L)			I (<3.0)	I (<3.0)	<3.0	<3.0	1.1	1.1	<3.0
Turbidity [Lab] (NTU)			I (0.36)	I (0.31)	I (0.28)	I (0.28)	I (0.13)	I (0.13)	I (0.35)
Uranium (U) - Dis (µg/L)			0.431	0.422	0.314	0.314	0.31	0.31	0.284
Uranium (U) - Tot (µg/L)			0.397	0.407	0.309	0.309	0.306	0.306	0.286
Vanadium (V) - Dis (µg/L)			<0.050	<0.050	<0.050	<0.050	<0.20	<0.20	<0.050
Vanadium (V) - Tot (µg/L)			<0.050	<0.050	<0.050	<0.050	<0.20	<0.20	<0.050
Xylene (mg/L)			<0.00075	<0.00075	<0.00071	<0.00071	<0.00089	<0.00089	<0.00071
Zinc (Zn) - Dis (µg/L)			0.54	0.84	1.65	1.65	XM (0.67)	XM (0.67)	0.6
Zinc (Zn) - Tot (µg/L)			<0.50	0.57	0.52	0.52	0.51	0.51	<0.50

SNP STATION: 02-20e

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/27/2020	6/28/2020	7/16/2020	7/16/2020	8/16/2020	8/16/2020	8/16/2020
Sample Type	No Sample Type	No Sample Type	Duplicate	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	VA20A9906-002	VA20A9906-010	VA20B0833-010	VA20B0833-010	YL2000015-002	YL2000015-004	YL2000015-008
Alkalinity -Tot (CaCO3) (mg/L)		48.8	50.4	50.4	45.7	46.3	36.5
Aluminum (Al) - Dis (µg/L)		1.6	1.4	1.4	1.7	1.7	6.4
Aluminum (Al) - Tot (µg/L)		2.2	3.2	3.2	3.7	2.8	7
Ammonia-N (mg/L)		0.0437	0.0387	0.0387	0.0492	0.0523	0.0114
Antimony (Sb) - Dis (µg/L)		<0.020	0.025	0.025	0.025	0.025	0.022
Antimony (Sb) - Tot (µg/L)		0.02	0.035	0.035	0.026	0.025	0.023
Arsenic (As) - Dis (µg/L)		0.127	0.096	0.096	0.12	0.13	0.105
Arsenic (As) - Tot (µg/L)		0.145	0.128	0.128	0.12	0.118	0.1
Barium (Ba) - Dis (µg/L)		25.6	26.6	26.6	23.2	24.2	19.1
Barium (Ba) - Tot (µg/L)		28.1	26.2	26.2	24.2	24.7	18.6
Benzene (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium (Be) - Tot (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron (B) - Dis (µg/L)		63.9	68.8	68.8	59.4	62.9	50.4
Boron (B) - Tot (µg/L)		64.7	65.1	65.1	64.8	67.1	55.5
Cadmium (Cd) - Dis (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium (Cd) - Tot (µg/L)		<0.0050	0.0057	0.0057	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dis (µg/L)		66200	69200	69200	66900	71500	53900
Calcium (Ca) - Dis (mg/L)		66.2	69.2	69.2	66.9	71.5	53.9
Carbon, Dissolved Organic (mg/L)		4.23	3.54	3.54	4.23	3.17	3.53
Carbon, Organic Total (mg/L)		4.01	3.51	3.51	3.6	3.38	3.32
Carbonaceous Biochemical Oxygen Demand (mg/L)			<2	<2	<2	<2	<2
Cesium (Cs) - Dis (µg/L)		0.0374	0.0351	0.0351	0.0371	0.0366	0.0313
Cesium (Cs) - Tot (µg/L)		0.0351	0.0357	0.0357	0.0364	0.0332	0.033
Chloride (mg/L)		150	147	147	144	145	113
Chromium (Cr) - Dis (µg/L)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium (Cr) - Tot (µg/L)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co) - Dis (µg/L)		0.0705	0.0626	0.0626	0.0207	0.0259	0.0098
Cobalt (Co) - Tot (µg/L)		0.0966	0.078	0.078	0.0832	0.0929	0.0266
Conductivity [Lab] (µS/cm)		649	668	668	630	637	502
Copper (Cu) - Dis (µg/L)		0.521	0.493	0.493	XM (0.858)	0.496	0.725
Copper (Cu) - Tot (µg/L)		0.573	0.521	0.521	0.516	0.528	0.563
E.Coli (MPN/100mL)			<1.0	<1.0	1	<1.0	<1.0
Ethylbenzene (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
F2 (C10-C16 Hydrocarbons) (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride (F) (mg/L)		0.204	0.207	0.207	0.207	0.207	0.179
Hardness (as mg CaCO3/L)	198	203	208	208	204	215	163
Iron (Fe) - Dis (µg/L)		5.6	7.3	7.3	2.8	2.5	4.7
Iron (Fe) - Tot (µg/L)		59.1	50.8	50.8	44.7	47.9	20
Lead (Pb) - Dis (µg/L)		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (Pb) - Tot (µg/L)		<0.010	0.012	0.012	<0.010	<0.010	<0.010
Lithium (Li) - Dis (µg/L)		10.8	11.6	11.6	9.94	10.6	8.33
Lithium (Li) - Tot (µg/L)		11.2	10.8	10.8	10.2	10.7	8.68
Magnesium (Mg) - Dis (µg/L)		9120	8670	8670	8910	8950	6980

SNP STATION: 02-20e

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/27/2020	6/28/2020	7/16/2020	7/16/2020	8/16/2020	8/16/2020	8/16/2020
Sample Type	No Sample Type	No Sample Type	Duplicate	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	VA20A9906-002	VA20A9906-010	VA20B0833-010	VA20B0833-010	YL2000015-002	YL2000015-004	YL2000015-008
Magnesium (Mg) - Dis (mg/L)		9.12	8.67	8.67	8.91	8.95	6.98
Manganese (Mn) - Dis (µg/L)	3.34	43.1	41.6	41.6	27.6	30.6	0.809
Manganese (Mn) - Tot (µg/L)	10.7	52.6	43.1	43.1	54.5	59.1	9.36
Mercury (Hg) - Tot (µg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum (Mo) - Dis (µg/L)		0.904	0.996	0.996	0.926	0.996	0.949
Molybdenum (Mo) - Tot (µg/L)		1.03	0.956	0.956	1.12	0.986	0.944
Nickel (Ni) - Dis (µg/L)		1.05	1.1	1.1	1.15	1.16	0.859
Nickel (Ni) - Tot (µg/L)		1.12	1.04	1.04	1.13	1.17	0.885
Nitrate-N (mg/L)		I (0.0556)	I (0.0601)	I (0.0601)	I (0.0713)	I (0.0781)	I (0.0745)
Nitrite-N (mg/L)		I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
Oil and Grease (mg/L)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Orthophosphate (PO4-P) (mg/L)		I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
pH [Lab]		7.57	7.17	7.17	7.56	7.61	7.83
Phosphorus, Total (mg/L)		0.004	0.0028	0.0028	0.0061	0.0056	0.0018
Phosphorus, Total Dissolved (mg/L)		0.0013	0.0029	0.0029	<0.0010	<0.0010	<0.0010
Potassium (K) - Dis (µg/L)		3140	2950	2950	2990	3070	2510
Rubidium (Rb) - Dis (µg/L)		4.23	4.14	4.14	4.19	4.32	3.62
Rubidium (Rb) - Tot (µg/L)		4.22	3.98	3.98	4.13	4.27	3.54
Selenium (Se) - Dis (µg/L)		<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Selenium (Se) - Tot (µg/L)		<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Sodium (Na) -Dis (µg/L)		34500	33600	33600	32800	33900	26000
Sodium (Na) -Dis (mg/L)		34.5	33.6	33.6	32.8	33.9	26
Strontium (Sr) - Dis (µg/L)		876	920	920	869	873	670
Strontium (Sr) - Tot (µg/L)		916	905	905	857	863	638
Sulphate (mg/L)		25.2	24.4	24.4	24.6	24.9	19.9
Thallium (Tl) - Dis (µg/L)		0.0052	0.0051	0.0051	<0.0050	<0.0050	0.0068
Thallium (Tl) - Tot (µg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0063
Titanium (Ti) - Dis (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti) - Tot (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Dissolved Solids - Calculated (mg/L)		318	317	317	308	316	245
Total Dissolved Solids - Measured (mg/L)		I (538)	551	551	554	556	404
Total Kjeldahl Nitrogen (mg/L)		0.28	0.296	0.296	0.291	0.289	0.245
Total Suspended Solids (mg/L)		I (<3.0)	<3.0	<3.0	<3.0	<3.0	<3.0
Turbidity [Lab] (NTU)		I (0.51)	I (0.5)	I (0.5)	I (0.69)	I (0.65)	I (0.34)
Uranium (U) - Dis (µg/L)		0.405	0.385	0.385	0.355	0.358	0.29
Uranium (U) - Tot (µg/L)		0.402	0.375	0.375	0.346	0.36	0.272
Vanadium (V) - Dis (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vanadium (V) - Tot (µg/L)		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Xylene (mg/L)		<0.00075	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
Zinc (Zn) - Dis (µg/L)		0.77	1.36	1.36	1.1	<0.50	0.61
Zinc (Zn) - Tot (µg/L)		0.58	0.54	0.54	0.62	<0.50	<0.50
Titanium (Ti) - Tot (µg/L)			<0.050	<0.50	<0.10	<0.50	<0.050
Toluene (mg/L)			<0.00050	<0.00040	<0.00050	<0.00040	<0.00050
Total Dissolved Solids - Calculated (mg/L)			I (332)	I (325)	I (359)	I (354)	I (370)

SNP STATION: 02-20e

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/27/2020	6/28/2020	7/16/2020	7/16/2020	8/16/2020	8/16/2020	8/16/2020
Sample Type	No Sample Type	No Sample Type	Duplicate	No Sample Type	No Sample Type	No Sample Type	No Sample Type
Lab Reference	VA20A9906-002	VA20A9906-010	VA20B0833-010	VA20B0833-010	YL2000015-002	YL2000015-004	YL2000015-008
Total Dissolved Solids - Measured (mg/L)			622	I (482)	471	I (520)	609
Total Kjeldahl Nitrogen (mg/L)			0.293	0.68	0.257	<0.50	0.315
Total Suspended Solids (mg/L)			1.6	I (1.8)	<3.0	I (<1.0)	<3.0
Turbidity [Lab] (NTU)			I (1.1)	I (1.4)	I (0.33)	I (0.33)	0.41
Uranium (U) - Dis (µg/L)			0.402	0.463	0.44	0.477	0.406
Uranium (U) - Tot (µg/L)			0.442	0.454	0.434	0.437	0.441
Vanadium (V) - Dis (µg/L)			<0.050	<0.20	<0.050	<0.20	<0.050
Vanadium (V) - Tot (µg/L)			<0.050	<0.20	<0.050	<0.20	<0.050
Water Temperature [Field] (°C)			4.6	4.6	2.3		3.6
Xylene (mg/L)			<0.00071	<0.00040	<0.00071	<0.00040	<0.00071
Zinc (Zn) - Dis (µg/L)			1.06	0.46	1.61	0.13	<0.50
Zinc (Zn) - Tot (µg/L)			<0.50	0.28	<0.80	<0.10	<0.50

SNP STATION: 02-20f

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/28/2020	7/16/2020	7/16/2020	7/16/2020	8/16/2020	8/16/2020
Sample Type	Sample	Duplicate	Sample	Duplicate	Sample	Lab Split Sample
Lab Reference	VA20A9906-011	VA20B0833-011	VA20B0833-011	VA20B0833-012	YL2000015-003	YH0551
Alkalinity -Tot (CaCO3) (mg/L)	49.6	38.3	38.3	39.4	36.6	36.5
Aluminum (Al) - Dis (µg/L)	1.9	4.9	4.9	5.3	5.6	5.53
Aluminum (Al) - Tot (µg/L)	1.9	5.3	5.3	6.5	7.3	8.48
Ammonia-N (mg/L)	0.0283	0.0074	0.0074	0.0102	0.0111	0.011
Antimony (Sb) - Dis (µg/L)	<0.020	0.021	0.021	0.022	0.024	<0.020
Antimony (Sb) - Tot (µg/L)	0.023	0.028	0.028	<0.020	0.024	<0.020
Arsenic (As) - Dis (µg/L)	0.15	0.084	0.084	0.115	0.106	0.084
Arsenic (As) - Tot (µg/L)	0.142	0.117	0.117	0.102	0.106	0.079
Barium (Ba) - Dis (µg/L)	24.6	21.1	21.1	21.3	19.1	21.3
Barium (Ba) - Tot (µg/L)	27.9	21.5	21.5	21.6	18.6	22.5
Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Beryllium (Be) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Beryllium (Be) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Boron (B) - Dis (µg/L)	62.2	55.8	55.8	54.9	49.7	49
Boron (B) - Tot (µg/L)	65.8	54.2	54.2	54.4	53.4	50
Cadmium (Cd) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium (Cd) - Tot (µg/L)	<0.0050	0.006	0.006	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dis (µg/L)	63400	56700	56700	56600	52900	53300
Calcium (Ca) - Dis (mg/L)	63.4	56.7	56.7	56.6	52.9	53.3
Carbon, Dissolved Organic (mg/L)	3.93	3.32	3.32	3.47	3.72	3.2
Carbon, Organic Total (mg/L)	3.8	3.53	3.53	3.44	3.54	2.6
Carbonaceous Biochemical Oxygen Demand (mg/L)	<2	<2	<2	<2	<2	<2
Cesium (Cs) - Dis (µg/L)	0.0356	0.0295	0.0295	0.0308	0.0342	<0.050
Cesium (Cs) - Tot (µg/L)	0.0381	0.0316	0.0316	0.0305	0.0342	<0.050
Chloride (mg/L)	153	112	112	112	113	
Chromium (Cr) - Dis (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium (Cr) - Tot (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co) - Dis (µg/L)	0.0145	0.0106	0.0106	0.0108	0.0069	0.0109
Cobalt (Co) - Tot (µg/L)	0.0332	0.0327	0.0327	0.0258	0.0212	0.0383
Conductivity [Lab] (µS/cm)	661	515	515	516	504	498
Copper (Cu) - Dis (µg/L)	0.612	0.458	0.458	0.504	0.591	0.492
Copper (Cu) - Tot (µg/L)	0.728	0.5	0.5	0.47	0.56	0.541
E.Coli (MPN/100mL)		<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
F1 (C6-C10) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	
F2 (C10-C16 Hydrocarbons) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride (F) (mg/L)	0.208	0.168	0.168	0.168	0.179	0.159
Hardness (as mg CaCO3/L)	194	169	169	168	161	
Iron (Fe) - Dis (µg/L)	3.1	5.2	5.2	5.1	3.7	3.7
Iron (Fe) - Tot (µg/L)	20.9	21.6	21.6	20.9	18.5	25.8
Lead (Pb) - Dis (µg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
Lead (Pb) - Tot (µg/L)	0.016	<0.010	<0.010	<0.010	<0.010	<0.0050
Lithium (Li) - Dis (µg/L)	10.6	9.39	9.39	9.3	8.21	8.23
Lithium (Li) - Tot (µg/L)	11.2	9.08	9.08	8.98	8.61	8.71
Magnesium (Mg) - Dis (µg/L)	8790	6580	6580	6440	7070	6770
Magnesium (Mg) - Dis (mg/L)	8.79	6.58	6.58	6.44	7.07	6.77
Manganese (Mn) - Dis (µg/L)	13.2	1.7	1.7	1.77	0.371	0.41

SNP STATION: 02-20f

200 METERS FROM THE DIFFUSER MIXING ZONE AROUND DIFFUSER

Date	6/28/2020	7/16/2020	7/16/2020	7/16/2020	8/16/2020	8/16/2020
Sample Type	Sample	Duplicate	Sample	Duplicate	Sample	Lab Split Sample
Lab Reference	VA20A9906-011	VA20B0833-011	VA20B0833-011	VA20B0833-012	YL2000015-003	YH0551
Manganese (Mn) - Tot (µg/L)	23.4	9.61	9.61	9.16	9.02	13.9
Mercury (Hg) - Tot (µg/L)	<0.00050	<0.00050	<0.00050	0.00051	<0.00050	<0.0019
Molybdenum (Mo) - Dis (µg/L)	0.921	0.868	0.868	0.859	1.06	1.01
Molybdenum (Mo) - Tot (µg/L)	1.04	0.9	0.9	0.857	1.06	0.994
Nickel (Ni) - Dis (µg/L)	1.04	0.82	0.82	0.855	0.85	0.844
Nickel (Ni) - Tot (µg/L)	1.17	0.88	0.88	0.912	0.872	0.907
Nitrate-N (mg/L)	I (0.0596)	I (0.0444)	I (0.0444)	I (0.0437)	I (0.0739)	
Nitrite-N (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	
Oil and Grease (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
pH [Lab]	7.55	7.16	7.16	7.21	7.81	6.71
Phosphorus, Total (mg/L)	0.0035	0.0014	0.0014	0.0019	0.0012	<0.0010
Phosphorus, Total Dissolved (mg/L)	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	
Potassium (K) - Dis (µg/L)	3090	2380	2380	2320	2550	2360
Rubidium (Rb) - Dis (µg/L)	4.17	3.35	3.35	3.3	3.65	3.64
Rubidium (Rb) - Tot (µg/L)	4.29	3.3	3.3	3.34	3.52	3.88
Selenium (Se) - Dis (µg/L)	<0.040	<0.040	<0.040	0.043	<0.040	<0.040
Selenium (Se) - Tot (µg/L)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Sodium (Na) - Dis (µg/L)	34400	26900	26900	26600	26100	25600
Sodium (Na) - Dis (mg/L)	34.4	26.9	26.9	26.6	26.1	25.6
Strontium (Sr) - Dis (µg/L)	848	728	728	719	692	783
Strontium (Sr) - Tot (µg/L)	968	745	745	742	655	814
Sulphate (mg/L)	25.9	18.8	18.8	18.8	20	
Thallium (Tl) - Dis (µg/L)	0.0052	0.0054	0.0054	0.0056	0.0065	0.0041
Thallium (Tl) - Tot (µg/L)	0.0052	0.0054	0.0054	0.0053	0.0065	0.0054
Titanium (Ti) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.50
Titanium (Ti) - Tot (µg/L)	<0.050	0.084	0.084	0.055	<0.050	<0.50
Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Total Dissolved Solids - Calculated (mg/L)	320	247	247	247	245	256
Total Dissolved Solids - Measured (mg/L)	I (544)	404	404	410	419	376
Total Kjeldahl Nitrogen (mg/L)	0.278	0.251	0.251	0.243	0.243	0.26
Total Suspended Solids (mg/L)	I (<3.0)	<3.0	<3.0	<3.0	<3.0	<1.0
Turbidity [Lab] (NTU)	I (0.36)	I (0.3)	I (0.3)	I (0.3)	I (0.38)	0.27
Uranium (U) - Dis (µg/L)	0.422	0.297	0.297	0.304	0.287	0.309
Uranium (U) - Tot (µg/L)	0.416	0.314	0.314	0.308	0.284	0.322
Vanadium (V) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.20
Vanadium (V) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.20
Xylene (mg/L)	<0.00075	<0.00071	<0.00071	<0.00071	<0.00071	
Zinc (Zn) - Dis (µg/L)	0.95	0.7	0.7	0.92	<0.50	0.12
Zinc (Zn) - Tot (µg/L)	0.67	0.61	0.61	<0.50	<0.50	0.23

QA/QC: TRAVEL BLANKS

Date	6/28/2020	7/16/2020	7/16/2020	7/17/2020	7/22/2020	8/8/2020	8/9/2020	8/11/2020
Sample Type	Travel Blank	Duplicate	Travel Blank	Travel Blank	Travel Blank	Travel Blank	Travel Blank	Travel Blank
Lab Reference	VA20A9906-008	VA20B0833-013	VA20B0833-013	YL2000001-032	YL2000003-017	YL2000013-006	YL2000013-011	YL2000014-006
Alkalinity -Tot (CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Aluminum (Al) - Dis (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Aluminum (Al) - Tot (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia-N (mg/L)	0.013	0.0108	0.0108	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Sb) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Antimony (Sb) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Barium (Ba) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Barium (Ba) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium (Be) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron (B) - Dis (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Boron (B) - Tot (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium (Cd) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium (Cd) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dis (µg/L)	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Calcium (Ca) - Dis (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Carbon, Dissolved Organic (mg/L)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon, Organic Total (mg/L)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbonaceous Biochemical Oxygen Demand (mg/L)						<3	<3	<3
Cesium (Cs) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cesium (Cs) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chloride (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (Cr) - Dis (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium (Cr) - Tot (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt (Co) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Conductivity [Lab] (µS/cm)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Copper (Cu) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (Cu) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	0.087	<0.050	<0.050
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
F2 (C10-C16 Hydrocarbons) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride (F) (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hardness (as mg CaCO3/L)	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Iron (Fe) - Dis (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron (Fe) - Tot (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead (Pb) - Dis (µg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (Pb) - Tot (µg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium (Li) - Dis (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium (Li) - Tot (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium (Mg) - Dis (µg/L)	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Magnesium (Mg) - Dis (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese (Mn) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Manganese (Mn) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Mercury (Hg) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Mercury (Hg) - Tot (µg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum (Mo) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum (Mo) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (Ni) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (Ni) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-N (mg/L)	I (<0.0050)	I (<0.0050)	I (<0.0050)	I (<0.0050)	I (<0.0050)	I (<0.0050)	I (<0.0050)	I (<0.0050)
Nitrite-N (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
Oil and Grease (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Orthophosphate (PO4-P) (mg/L)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)	I (<0.0010)
pH [Lab]	5.27	5.3	5.3	5.33	5.44	5.47	5.38	5.44
Phosphorus, Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus, Total Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Potassium (K) - Dis (µg/L)	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Rubidium (Rb) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Rubidium (Rb) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Selenium (Se) - Dis (µg/L)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Selenium (Se) - Tot (µg/L)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Sodium (Na) -Dis (µg/L)	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Sodium (Na) -Dis (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Strontium (Sr) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Strontium (Sr) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Sulphate (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Thallium (Tl) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium (Tl) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Titanium (Ti) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Dissolved Solids - Calculated (mg/L)	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids - Measured (mg/L)	I (<10)	<10	<10	I (<10)	I (<10)	<10	<10	I (<10)
Total Kjeldahl Nitrogen (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Suspended Solids (mg/L)	I (<3.0)	<3.0	<3.0	I (<3.0)	I (<3.0)	<3.0	<3.0	I (<3.0)
Turbidity [Lab] (NTU)	I (<0.10)	I (<0.10)	I (<0.10)	I (<0.10)	I (<0.10)	I (<0.10)	I (<0.10)	I (<0.10)
Uranium (U) - Dis (µg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U) - Tot (µg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Vanadium (V) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vanadium (V) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Xylene (mg/L)	<0.00075	<0.00071	<0.00071	<0.00075	<0.00075	<0.00075	<0.00075	<0.00071
Zinc (Zn) - Dis (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Zinc (Zn) - Tot (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

QA/QC: FIELD BLANK

Date	6/27/2020	7/17/2020	7/19/2020	7/21/2020	8/6/2020	8/10/2020	8/16/2020
Sample Type	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Lab Reference	VA20A9906-007	YL2000001-015	YL2000001-030	YL2000003-016	YL2000010-009	YL2000013-010	YL2000015-011
Alkalinity -Tot (CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Aluminum (Al) - Dis (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Aluminum (Al) - Tot (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia-N (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (Sb) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Antimony (Sb) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Arsenic (As) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Barium (Ba) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Barium (Ba) - Tot (µg/L)	<0.020	0.054	<0.020	<0.020	<0.020	<0.020	<0.020
Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (Be) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium (Be) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron (B) - Dis (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Boron (B) - Tot (µg/L)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium (Cd) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium (Cd) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dis (µg/L)	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Calcium (Ca) - Dis (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Carbon, Dissolved Organic (mg/L)	1.01	1.11	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon, Organic Total (mg/L)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbonaceous Biochemical Oxygen Demand (mg/L)		<2	<2	<2	<2	<2	<2
Cesium (Cs) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cesium (Cs) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chloride (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (Cr) - Dis (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chromium (Cr) - Tot (µg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cobalt (Co) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt (Co) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Conductivity [Lab] (µS/cm)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Copper (Cu) - Dis (µg/L)	<0.050	0.07	<0.050	0.157	0.146	0.112	0.108
Copper (Cu) - Tot (µg/L)	0.532	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
E.Coli (MPN/100mL)		l (<1.0)	<1.0	l (<1.0)	l (<1.0)	<1.0	<1.0
Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
F1 (C6-C10) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
F2 (C10-C16 Hydrocarbons) (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride (F) (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hardness (as mg CaCO3/L)	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Iron (Fe) - Dis (µg/L)	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0
Iron (Fe) - Tot (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead (Pb) - Dis (µg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (Pb) - Tot (µg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lithium (Li) - Dis (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Lithium (Li) - Tot (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium (Mg) - Dis (µg/L)	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Magnesium (Mg) - Dis (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese (Mn) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Manganese (Mn) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

QA/QC: FIELD BLANK

Date	6/27/2020	7/17/2020	7/19/2020	7/21/2020	8/6/2020	8/10/2020	8/16/2020
Sample Type	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Lab Reference	VA20A9906-007	YL2000001-015	YL2000001-030	YL2000003-016	YL2000010-009	YL2000013-010	YL2000015-011
Alkalinity -Tot (CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Aluminum (Al) - Dis (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Mercury (Hg) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Mercury (Hg) - Tot (µg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Molybdenum (Mo) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum (Mo) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (Ni) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (Ni) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-N (mg/L)	l (<0.0050)	l (<0.0050)	l (<0.0050)	l (<0.0050)	l (<0.0050)	l (<0.0050)	l (<0.0050)
Nitrite-N (mg/L)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)
Oil and Grease (mg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Orthophosphate (PO4-P) (mg/L)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)	l (<0.0010)
pH [Lab]	5.31	5.5	5.42	5.4	5.25	5.50	5.37
Phosphorus, Total (mg/L)	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Phosphorus, Total Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Potassium (K) - Dis (µg/L)	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Rubidium (Rb) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Rubidium (Rb) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Selenium (Se) - Dis (µg/L)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Selenium (Se) - Tot (µg/L)	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Sodium (Na) -Dis (µg/L)	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Sodium (Na) -Dis (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Strontium (Sr) - Dis (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Strontium (Sr) - Tot (µg/L)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Sulphate (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Thallium (Tl) - Dis (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium (Tl) - Tot (µg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Titanium (Ti) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Titanium (Ti) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Dissolved Solids - Calculated (mg/L)	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids - Measured (mg/L)	l (<10)	l (<10)	<10	l (<10)	l (<10)	<10	<10
Total Kjeldahl Nitrogen (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Suspended Solids (mg/L)	l (<3.0)	l (<3.0)	<3.0	l (<3.0)	l (<3.0)	<3.0	<3.0
Turbidity [Lab] (NTU)	l (<0.10)	l (<0.10)	l (<0.10)	l (<0.10)	l (<0.10)	l (<0.10)	l (<0.10)
Uranium (U) - Dis (µg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U) - Tot (µg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Vanadium (V) - Dis (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vanadium (V) - Tot (µg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Xylene (mg/L)	<0.00075	<0.00075	<0.00075	<0.00075	<0.00071	<0.00075	<0.00071
Zinc (Zn) - Dis (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Zinc (Zn) - Tot (µg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50