

Annual Samples 2018

Sample	Unit of Measure	Nominal Detection Limit	Guideline Limit	Sample Location								
				Well #1 Oct 17, 2018	Well #2 Oct 17, 2018	Well #3 Oct 17, 2018	Well #6 Oct 17, 2018	Well #7 Oct 17, 2018	Well #8 Oct 17, 2018	Chestnut Stn Oct 17, 2018	Marine Dr Stn Oct 17, 2018	Malabar Stn Oct 17, 2018
Inorganic Nonmetallic Parameters												
Organic Carbon	mg/L	0.5		<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	1.2
Ammonia - N	mg/L	0.01		0.02	<0.01	0.06	0.14	0.10	0.12	0.07	0.11	0.12
Metals Extractable												
Aluminum	mg/L	0.001	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	mg/L	0.00002	0.006	0.00007	0.00008	0.00006	0.00005	0.00006	0.00005	0.00006	0.00006	0.00007
Arsenic	mg/L	0.0001	0.010	0.0061	0.0039	0.0066	0.0090	0.0086	0.0069	0.0063	0.0064	0.0064
Barium	mg/L	0.0001	1	0.0167	0.0194	0.0182	0.0239	0.0189	0.0186	0.0155	0.0163	0.0167
Boron	mg/L	0.002	5	0.018	0.018	0.015	0.038	0.024	0.014	0.016	0.002	0.015
Cadmium	mg/L	0.00001	0.005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chromium	mg/L	0.00005	0.05	0.00030	0.00780	<0.00005	<0.00005	<0.00005	<0.00005	0.00015	0.00008	0.00018
Copper	mg/L	0.0005	1.0	0.0027	0.0013	0.00060	0.0012	<0.0005	0.0012	0.0008	0.0031	0.0025
Lead	mg/L	0.00001	0.01	0.00016	0.00013	0.00010	0.00004	0.00043	0.00003	0.00010	0.00031	0.00037
Selenium	mg/L	0.0002	0.05	0.0023	0.0130	0.0003	<0.0002	<0.0002	0.0003	0.0019	0.0019	0.0021
Uranium	mg/L	0.00001	0.02	0.00014	0.00027	0.00009	0.00015	0.00013	0.00011	0.00013	0.00013	0.00013
Vanadium	mg/L	0.00005		0.00271	0.00366	0.00300	0.00255	0.00231	0.00252	0.0026	0.00261	0.00259
Zinc	mg/L	0.0005	5.0	0.0040	0.0020	0.0012	0.0020	<0.0005	0.0007	0.0008	0.0019	0.0028
Metals Total												
Mercury	mg/L	0.00001	0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Physical and Aggregate Properties												
Colour	Colour Units	5		<5	<5	<5	<5	<5	<5	<5	<5	<5
Turbidity	NTU	0.02		<0.05	2.6	<0.05	<0.05	<0.05	0.05	0.11	0.09	0.06
Routine Water												
pH			6.5-8.5	7.83	7.82	7.83	7.92	7.90	7.86	7.79	7.80	7.79
Electrical Conductivity		1		263	306	242	315	265	240	270	269	272
Calcium	mg/L	0.01		23	29	21	24	23	23	23	23	23
Iron	mg/L	0.004	0.3	<0.004	0.14	0.010	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Mangesium	mg/L	0.02		9.4	13	8.6	10	9.6	9.2	9.5	9.5	9.6
Manganese	mg/L	0.001	0.05	0.0039	0.018	0.19	0.15	0.12	0.19	0.1	0.097	0.083
Potassium	mg/L	0.04	200	3.0	3.1	2.8	3.8	3.5	3.0	3.0	3.0	3.0
Silicon	mg/L	0.005		10	10	10	10	10	10	10	10	10
Sodium	mg/L	0.1		15	13	14	24	16	9.9	13	13	14
T-Alkalinity	mg/L	5		75	98	85	111	101	95	92	90	91
Chloride	mg/L	0.05	250	18.8	19.6	16.9	17.7	10.1	8.5	15.5	14.9	15.9
Fluoride	mg/L	0.01	1.5	0.06	0.05	0.06	0.13	0.11	0.07	0.06	0.06	0.06
Nitrate - N	mg/L	0.01	10	0.30	1.02	<0.01	<0.01	<0.01	<0.01	0.28	0.24	0.27
Nitrite - N	mg/L	0.01	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01
Sulfate (SO4)	mg/L	0.5	500	14.7	21.2	10.8	20.0	14.6	12.9	15.1	14.8	15.1
Hardness	mg/L	1		96	124	89	103	97	96	97	98	98
Total Dissolved Solids	mg/L	1		157	190	153	196	166	152	165	163	165

Sample	Unit of Measure	Nominal Detection Limit	Guideline Limit	Sample Location								
				Mann Park Stn Oct 17, 2018	Balsam Stn Oct 17, 2018	Oxford Stn Oct 17, 2018	Oxford Reservoir Oct 17, 2018	Everall Stn Oct 17, 2018	Russell Stn Oct 17, 2018	Stevens Stn Oct 17, 2018	Finlay Stn Oct 17, 2018	Stayte Stn Oct 17, 2018
Inorganic Nonmetallic Parameters												
Organic Carbon	mg/L	0.5		<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.5	<0.5
Ammonia - N	mg/L	0.01		0.11	0.10	0.10	0.12	0.11	0.09	0.09	0.09	0.05
Metals Extractable												
Aluminum	mg/L	0.001	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Antimony	mg/L	0.00002	0.006	0.00008	0.00006	0.00006	0.00006	0.00007	0.00007	0.00006	0.00006	0.00007
Arsenic	mg/L	0.0001	0.010	0.0064	0.0077	0.0074	0.0064	0.0064	0.0089	0.0090	0.0086	0.0076
Barium	mg/L	0.0001	1	0.0171	0.0193	0.0187	0.0172	0.0175	0.0213	0.0213	0.0205	0.0185
Boron	mg/L	0.002	5	0.017	0.027	0.021	0.017	0.016	0.030	0.033	0.027	0.024
Cadmium	mg/L	0.00001	0.005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chromium	mg/L	0.00005	0.05	0.00021	0.00009	0.00011	0.00020	0.00021	<0.00005	<0.00005	<0.00005	0.00010
Copper	mg/L	0.0005	1.0	0.0041	0.0009	0.0009	0.0099	0.0010	0.0007	0.0021	0.0005	0.0029
Lead	mg/L	0.00001	0.01	0.00020	0.00020	0.00008	0.00016	0.00010	0.00012	0.00018	0.00007	0.00033
Selenium	mg/L	0.0002	0.05	0.0019	0.0008	0.0011	0.0018	0.0018	<0.0002	<0.0002	<0.0002	0.0009
Uranium	mg/L	0.00001	0.02	0.00014	0.00014	0.00013	0.00013	0.00013	0.00014	0.00014	0.00014	0.00014
Vanadium	mg/L	0.00005		0.00264	0.00251	0.00256	0.00254	0.00263	0.00241	0.00242	0.00236	0.00253
Zinc	mg/L	0.0005	5.0	0.0008	0.0007	<0.0005	0.0039	0.0013	0.0036	0.0024	<0.0005	0.0027
Metals Total												
Mercury	mg/L	0.00001	0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Physical and Aggregate Properties												
Colour	Colour Units	5		<5	<5	<5	<5	<5	<5	<5	<5	<5
Turbidity	NTU	0.02		0.16	0.13	0.11	<0.05	0.18	0.06	0.14	0.21	0.11
Routine Water												
pH			6.5-8.5	7.79	7.89	7.89	7.86	7.81	7.83	7.90	7.90	7.88
Electrical Conductivity		1		269	280	271	255	269	290	291	290	278
Calcium	mg/L	0.01		23	24	24	23	24	24	24	24	24
Iron	mg/L	0.004	0.3	<0.004	<0.004	<0.004	0.006	<0.004	<0.004	<0.004	<0.004	0.005
Mangesium	mg/L	0.02		9.6	9.7	9.7	9.7	9.6	9.9	9.9	9.8	9.7
Manganese	mg/L	0.001	0.05	0.093	0.12	0.11	0.096	0.095	0.13	0.14	0.13	0.12
Potassium	mg/L	0.04	200	3.0	3.4	3.2	3.0	3.0	3.6	3.6	3.6	3.3
Silicon	mg/L	0.005		10	10	10	11	10	10	10	10	10
Sodium	mg/L	0.1		13	18	16	13	13	20	20	20	17
T-Alkalinity	mg/L	5		92	91	72	69	92	109	94	106	73
Chloride	mg/L	0.05	250	15.2	14.9	15.0	15.0	14.8	14.3	14.3	14.4	14.9
Fluoride	mg/L	0.01	1.5	0.06	0.10	0.09	0.06	0.06	0.13	0.13	0.12	0.09
Nitrate - N	mg/L	0.01	10	0.25	0.10	0.16	0.23	0.23	<0.01	<0.01	<0.01	0.15
Nitrite - N	mg/L	0.01	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
Sulfate (SO4)	mg/L	0.5	500	14.9	16.4	15.9	14.9	14.8	17.2	17.2	17.2	16.1
Hardness	mg/L	1		98	99	99	98	99	100	100	99	99
Total Dissolved Solids	mg/L	1		163	168	155	150	163	182	174	181	158

Sample	Unit of Measure	Nominal Detection Limit	Guideline Limit	Sample Location				
				Roper Stn Oct 17, 2018	Roper PRV Oct 17, 2018	Merklin Reservoir Oct 17, 2018	Merklin Low Reservoir Oct 17, 2018	Roper Reservoir Oct 17, 2018
Inorganic Nonmetallic Parameters								
Organic Carbon	mg/L	0.5		<0.5	<0.5	<0.5	<0.5	<0.5
Ammonia - N	mg/L	0.01		0.09	0.09	0.10	0.09	0.08
Metals Extractable								
Aluminum	mg/L	0.001	0.1	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	mg/L	0.00002	0.006	0.00006	0.00006	0.00011	0.00005	0.00006
Arsenic	mg/L	0.0001	0.010	0.0088	0.0086	0.0088	0.0087	0.0084
Barium	mg/L	0.0001	1	0.0212	0.0206	0.0213	0.0215	0.0208
Boron	mg/L	0.002	5	0.032	0.032	0.036	0.032	0.028
Cadmium	mg/L	0.00001	0.005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Chromium	mg/L	0.00005	0.05	<0.00005	<0.00005	<0.00005	<0.00005	0.00005
Copper	mg/L	0.0005	1.0	0.0031	0.0007	<0.0005	0.0335	0.0011
Lead	mg/L	0.00001	0.01	0.00048	0.00005	<0.00001	0.00011	0.00004
Selenium	mg/L	0.0002	0.05	<0.0002	<0.0002	<0.0002	<0.0002	0.0003
Uranium	mg/L	0.00001	0.02	0.00014	0.00014	0.00014	0.00014	0.00014
Vanadium	mg/L	0.00005		0.00244	0.00241	0.00229	0.00239	0.00253
Zinc	mg/L	0.0005	5.0	0.0026	0.0019	<0.0005	0.0014	0.0024
Metals Total								
Mercury	mg/L	0.00001	0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Physical and Aggregate Properties								
Colour	Colour Units	5		<5	<5	<5	<5	<5
Turbidity	NTU	0.02		0.16	<0.05	<0.05	<0.05	0.09
Routine Water								
pH			6.5-8.5	7.90	7.90	7.91	7.90	7.91
Electrical Conductivity		1		292	288	291	291	283
Calcium	mg/L	0.01		24	24	24	24	24
Iron	mg/L	0.004	0.3	<0.004	<0.004	<0.004	<0.004	<0.004
Mangesium	mg/L	0.02		9.9	9.7	9.8	9.8	9.8
Manganese	mg/L	0.001	0.05	0.13	0.13	0.14	0.14	0.13
Potassium	mg/L	0.04	200	3.5	3.5	3.6	3.6	3.5
Silicon	mg/L	0.005		11	10	10	10	10
Sodium	mg/L	0.1		21	20	20	20	18
T-Alkalinity	mg/L	5		71	94	107	106	102
Chloride	mg/L	0.05	250	14.4	14.4	14.4	14.4	14.4
Fluoride	mg/L	0.01	1.5	0.12	0.12	0.13	0.12	0.10
Nitrate - N	mg/L	0.01	10	<0.01	0.02	<0.01	<0.01	0.05
Nitrite - N	mg/L	0.01	1	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfate (SO4)	mg/L	0.5	500	17.2	17.1	17.3	17.2	16.6
Hardness	mg/L	1		100	99	100	100	99
Total Dissolved Solids	mg/L	1		160	172	182	181	176