

**2.2.1 Bacteriological Data: Water Treatment Plants  
2020**

	Coliforms, total						E. coli					cATP (pg/mL)			
	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>January</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	568	1	816	0	0.0	153	1	345	9	34.928	18.830	42.560
E.L. Smith Raw (MPN/100mL)	4	0	0.0	1,209	866	1,730	0	0.0	315	156	517	7	35.689	23.700	53.770
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>639</b>	<b>1</b>	<b>1,730</b>	<b>0</b>	<b>0.0</b>	<b>171</b>	<b>1</b>	<b>517</b>	<b>16</b>	<b>35.261</b>	<b>18.830</b>	<b>53.770</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				9	0.080	0.040	0.150
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				9	0.059	0.010	0.120
<b>Treated Water Entering the Distribution System</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>18</b>	<b>0.069</b>	<b>0.010</b>	<b>0.150</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				9	0.082	0.050	0.130
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				9	0.084	0.020	0.400
<b>Water Entering the Plant Reservoir</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>18</b>	<b>0.083</b>	<b>0.020</b>	<b>0.400</b>
<b>February</b>															
Rossdale Raw (MPN/100mL)	30	0	0.0	642	1	1,550	0	0.0	168	1	397	8	26.556	17.260	34.730
E.L. Smith Raw (MPN/100mL)	4	0	0.0	711	436	980	0	0.0	237	178	261	8	24.561	15.120	39.500
<b>Raw River Water Entering the Treatment Plants</b>	<b>34</b>	<b>0</b>	<b>0.0</b>	<b>650</b>	<b>1</b>	<b>1,550</b>	<b>0</b>	<b>0.0</b>	<b>176</b>	<b>1</b>	<b>397</b>	<b>16</b>	<b>25.559</b>	<b>15.120</b>	<b>39.500</b>
Rossdale Reservoir (PA/100mL)	29	0	0.0				0	0.0				8	0.080	0.020	0.140
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				8	0.119	0.020	0.190
<b>Treated Water Entering the Distribution System</b>	<b>59</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>16</b>	<b>0.099</b>	<b>0.020</b>	<b>0.190</b>
Rossdale Treated (PA/100mL)	29	0	0.0				0	0.0				8	0.100	0.030	0.160
E.L. Smith Treated (PA/100mL)	29	0	0.0				0	0.0				8	0.099	0.030	0.150
<b>Water Entering the Plant Reservoir</b>	<b>58</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>16</b>	<b>0.099</b>	<b>0.030</b>	<b>0.160</b>

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	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>March</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	784	1	1,730	0	0.0	230	1	461	7	36.926	16.940	50.920
E.L. Smith Raw (MPN/100mL)	5	0	0.0	657	1	1,050	0	0.0	287	1	461	7	33.177	21.720	42.000
<b>Raw River Water Entering the Treatment Plants</b>	<b>37</b>	<b>0</b>	<b>0.0</b>	<b>767</b>	<b>1</b>	<b>1,730</b>	<b>0</b>	<b>0.0</b>	<b>238</b>	<b>1</b>	<b>461</b>	<b>14</b>	<b>35.051</b>	<b>16.940</b>	<b>50.920</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				7	0.160	0.110	0.340
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				7	0.224	0.120	0.340
<b>Treated Water Entering the Distribution System</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>14</b>	<b>0.192</b>	<b>0.110</b>	<b>0.340</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				7	0.150	0.030	0.340
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				7	0.179	0.090	0.270
<b>Water Entering the Plant Reservoir</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>14</b>	<b>0.164</b>	<b>0.030</b>	<b>0.340</b>
<b>April</b>															
Rossdale Raw (MPN/100mL)	31	0	0.0	4,889	1	39,700	0	0.0	285	1	682	1	873.150	873.150	873.150
E.L. Smith Raw (MPN/100mL)	5	0	0.0	2,144	1,050	6,150	0	0.0	226	20	488	1	945.370	945.370	945.370
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>4,508</b>	<b>1</b>	<b>39,700</b>	<b>0</b>	<b>0.0</b>	<b>277</b>	<b>1</b>	<b>682</b>	<b>2</b>	<b>909.260</b>	<b>873.150</b>	<b>945.370</b>
Rossdale Reservoir (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				1	0.140	0.140	0.140
<b>Treated Water Entering the Distribution System</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.070</b>	<b>0.140</b>	<b>0.140</b>
Rossdale Treated (PA/100mL)	30	0	0.0				0	0.0				1	0.060	0.060	0.060
E.L. Smith Treated (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
<b>Water Entering the Plant Reservoir</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.030</b>	<b>0.060</b>	<b>0.060</b>

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	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>May</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	1,205	1	13,700	0	0.0	172	1	1,810	1	161.110	161.110	161.110
E.L. Smith Raw (MPN/100mL)	4	0	0.0	1,039	131	3,440	0	0.0	187	3	710	1	155.590	155.590	155.590
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>1,186</b>	<b>1</b>	<b>13,700</b>	<b>0</b>	<b>0.0</b>	<b>174</b>	<b>1</b>	<b>1,810</b>	<b>2</b>	<b>158.350</b>	<b>155.590</b>	<b>161.110</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				1	0.000		0.000
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				1	0.000		0.000
<b>Treated Water Entering the Distribution System</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.000</b>		<b>0.000</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				1	0.000		0.000
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				1	0.000		0.000
<b>Water Entering the Plant Reservoir</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.000</b>		<b>0.000</b>
<b>June</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	3,180	1	39,700	0	0.0	224	1	2,250	1	581.340	581.340	581.340
E.L. Smith Raw (MPN/100mL)	4	0	0.0	2,405	980	4,130	0	0.0	215	57	365	1	135.040	135.040	135.040
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>3,094</b>	<b>1</b>	<b>39,700</b>	<b>0</b>	<b>0.0</b>	<b>223</b>	<b>1</b>	<b>2,250</b>	<b>2</b>	<b>358.190</b>	<b>135.040</b>	<b>581.340</b>
Rossdale Reservoir (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
<b>Treated Water Entering the Distribution System</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.000</b>		<b>0.000</b>
Rossdale Treated (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
E.L. Smith Treated (PA/100mL)	30	0	0.0				0	0.0				1	0.000		0.000
<b>Water Entering the Plant Reservoir</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>2</b>	<b>0.000</b>		<b>0.000</b>

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	Coliforms, total						E. coli					cATP (pg/mL)			
	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>July</b>															
Rossdale Raw (MPN/100mL)	31	0	0.0	5,511	398	28,300	0	0.0	305	4	1,810	2	158.100	111.890	204.310
E.L. Smith Raw (MPN/100mL)	6	0	0.0	1,818	1,120	4,230	0	0.0	51	16	172	1	115.290	115.290	115.290
<b>Raw River Water Entering the Treatment Plants</b>	<b>37</b>	<b>0</b>	<b>0.0</b>	<b>4,912</b>	<b>398</b>	<b>28,300</b>	<b>0</b>	<b>0.0</b>	<b>264</b>	<b>4</b>	<b>1,810</b>	<b>3</b>	<b>143.830</b>	<b>111.890</b>	<b>204.310</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				13	0.028	0.010	0.150
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				13	0.036	0.030	0.120
<b>Treated Water Entering the Distribution System</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>26</b>	<b>0.032</b>	<b>0.010</b>	<b>0.150</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				13	0.042	0.010	0.160
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				13	0.075	0.030	0.280
<b>Water Entering the Plant Reservoir</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>26</b>	<b>0.059</b>	<b>0.010</b>	<b>0.280</b>
<b>August</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	2,860	1	39,700	0	0.0	76	1	786	1	102.540	102.540	102.540
E.L. Smith Raw (MPN/100mL)	4	0	0.0	553	411	816	0	0.0	18	7	41	1	110.040	110.040	110.040
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>2,604</b>	<b>1</b>	<b>39,700</b>	<b>0</b>	<b>0.0</b>	<b>69</b>	<b>1</b>	<b>786</b>	<b>2</b>	<b>106.290</b>	<b>102.540</b>	<b>110.040</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.022	0.030	0.250
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.045	0.030	0.410
<b>Treated Water Entering the Distribution System</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>62</b>	<b>0.033</b>	<b>0.030</b>	<b>0.410</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.030	0.040	0.280
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.027	0.030	0.180
<b>Water Entering the Plant Reservoir</b>	<b>62</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>62</b>	<b>0.029</b>	<b>0.030</b>	<b>0.280</b>

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	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>September</b>															
Rossdale Raw (MPN/100mL)	31	0	0.0	140	1	1,410	0	0.0	34	1	517	1	120.400	120.400	120.400
E.L. Smith Raw (MPN/100mL)	5	0	0.0	192	78	517	0	0.0	34	11	101	1	73.800	73.800	73.800
<b>Raw River Water Entering the Treatment Plants</b>	<b>36</b>	<b>0</b>	<b>0.0</b>	<b>147</b>	<b>1</b>	<b>1,410</b>	<b>0</b>	<b>0.0</b>	<b>34</b>	<b>1</b>	<b>517</b>	<b>2</b>	<b>97.100</b>	<b>73.800</b>	<b>120.400</b>
Rossdale Reservoir (PA/100mL)	30	0	0.0				0	0.0				30	0.068	0.040	0.230
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				30	0.175	0.060	0.530
<b>Treated Water Entering the Distribution System</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>60</b>	<b>0.121</b>	<b>0.040</b>	<b>0.530</b>
Rossdale Treated (PA/100mL)	30	0	0.0				0	0.0				30	0.069	0.030	0.320
E.L. Smith Treated (PA/100mL)	30	0	0.0				0	0.0				30	0.260	0.030	2.290
<b>Water Entering the Plant Reservoir</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>60</b>	<b>0.164</b>	<b>0.030</b>	<b>2.290</b>
<b>October</b>															
Rossdale Raw (MPN/100mL)	30	0	0.0	778	36	19,600	0	0.0	29	1	456	1	46.720	46.720	46.720
E.L. Smith Raw (MPN/100mL)	4	0	0.0	129	88	172	0	0.0	10	4	15	0			
<b>Raw River Water Entering the Treatment Plants</b>	<b>34</b>	<b>0</b>	<b>0.0</b>	<b>702</b>	<b>36</b>	<b>19,600</b>	<b>0</b>	<b>0.0</b>	<b>26</b>	<b>1</b>	<b>456</b>	<b>1</b>	<b>46.720</b>	<b>46.720</b>	<b>46.720</b>
Rossdale Reservoir (PA/100mL)	30	0	0.0				0	0.0				30	0.121	0.030	0.400
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.324	0.110	1.200
<b>Treated Water Entering the Distribution System</b>	<b>61</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>61</b>	<b>0.224</b>	<b>0.030</b>	<b>1.200</b>
Rossdale Treated (PA/100mL)	30	0	0.0				0	0.0				30	0.155	0.050	0.490
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.412	0.060	3.500
<b>Water Entering the Plant Reservoir</b>	<b>61</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>61</b>	<b>0.285</b>	<b>0.050</b>	<b>3.500</b>

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	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
<b>November</b>															
Rossdale Raw (MPN/100mL)	30	0	0.0	266	63	1,990	0	0.0	11	2	29	1	21.650	21.650	21.650
E.L. Smith Raw (MPN/100mL)	5	0	0.0	149	24	308	0	0.0	4	1	9	1	26.890	26.890	26.890
<b>Raw River Water Entering the Treatment Plants</b>	<b>35</b>	<b>0</b>	<b>0.0</b>	<b>249</b>	<b>24</b>	<b>1,990</b>	<b>0</b>	<b>0.0</b>	<b>10</b>	<b>1</b>	<b>29</b>	<b>2</b>	<b>24.270</b>	<b>21.650</b>	<b>26.890</b>
Rossdale Reservoir (PA/100mL)	30	0	0.0				0	0.0				30	0.249	0.030	1.000
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				30	0.201	0.060	0.520
<b>Treated Water Entering the Distribution System</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>60</b>	<b>0.225</b>	<b>0.030</b>	<b>1.000</b>
Rossdale Treated (PA/100mL)	30	0	0.0				0	0.0				30	0.186	0.030	1.000
E.L. Smith Treated (PA/100mL)	30	0	0.0				0	0.0				30	0.212	0.050	1.000
<b>Water Entering the Plant Reservoir</b>	<b>60</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>60</b>	<b>0.199</b>	<b>0.030</b>	<b>1.000</b>
<b>December</b>															
Rossdale Raw (MPN/100mL)	32	0	0.0	97	1	387	0	0.0	9	1	40	1	32.030	32.030	32.030
E.L. Smith Raw (MPN/100mL)	5	0	0.0	152	41	461	0	0.0	8	1	30	1	31.660	31.660	31.660
<b>Raw River Water Entering the Treatment Plants</b>	<b>37</b>	<b>0</b>	<b>0.0</b>	<b>105</b>	<b>1</b>	<b>461</b>	<b>0</b>	<b>0.0</b>	<b>9</b>	<b>1</b>	<b>40</b>	<b>2</b>	<b>31.845</b>	<b>31.660</b>	<b>32.030</b>
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				22	0.151	0.030	0.420
E.L. Smith Reservoir (PA/100mL)	30	0	0.0				0	0.0				21	0.199	0.090	0.660
<b>Treated Water Entering the Distribution System</b>	<b>61</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>43</b>	<b>0.174</b>	<b>0.030</b>	<b>0.660</b>
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				22	0.134	0.040	0.200
E.L. Smith Treated (PA/100mL)	30	0	0.0				0	0.0				21	0.357	0.120	2.920
<b>Water Entering the Plant Reservoir</b>	<b>61</b>	<b>0</b>	<b>0.0</b>				<b>0</b>	<b>0.0</b>				<b>43</b>	<b>0.243</b>	<b>0.040</b>	<b>2.920</b>

\* Indicates EPCOR Operations Program

PA = present or absent, MPN = most probable number

## 2.2.2 Bacteriological Data: Distribution System

2020

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
<b>January</b>									
FIELD DISTRIBUTION	119	0	0.0	0	0.0	39	0.16	0.03	0.70
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	61	0	0.0	0	0.0	12	0.07	0.03	0.14
FIELD RESERVOIR - PLPH (duplicate-not counted) *	60	0	0.0	0	0.0	0			
Monthly	300	0	0.0	0	0.0	51	0.14	0.03	0.03
<b>February</b>									
FIELD DISTRIBUTION	125	0	0.0	0	0.0	41	0.08	0.01	0.26
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	47	0	0.0	0	0.0	12	0.09	0.06	0.13
FIELD RESERVOIR - PLPH (duplicate-not counted) *	47	0	0.0	0	0.0	0			
Monthly	279	0	0.0	0	0.0	53	0.08	0.01	0.01
<b>March</b>									
FIELD DISTRIBUTION	113	0	0.0	0	0.0	44	0.22	0.03	0.90
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	48	0	0.0	0	0.0	12	0.17	0.10	0.40
FIELD RESERVOIR - PLPH (duplicate-not counted) *	48	0	0.0	0	0.0	0			
Monthly	269	0	0.0	0	0.0	56	0.20	0.03	0.03
<b>April</b>									
FIELD DISTRIBUTION	56	0	0.0	0	0.0	0			
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	61	0	0.0	0	0.0	0			
FIELD RESERVOIR - PLPH (duplicate-not counted) *	60	0	0.0	0	0.0	0			
Monthly	237	0	0.0	0	0.0	0			
<b>May</b>									
FIELD DISTRIBUTION	104	0	0.0	0	0.0	0			
FIELD DISTRIBUTION - PLPH	61	0	0.0	0	0.0	0			
FIELD RESERVOIR	48	0	0.0	0	0.0	0			
FIELD RESERVOIR - PLPH (duplicate-not counted) *	47	0	0.0	0	0.0	0			
Monthly	260	0	0.0	0	0.0	0			

## 2.2.2 Bacteriological Data: Distribution System

2020

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
<b>June</b>									
FIELD DISTRIBUTION	134	0	0.0	0	0.0	0			
FIELD DISTRIBUTION - PLPH	61	0	0.0	0	0.0	0			
FIELD RESERVOIR	55	0	0.0	0	0.0	0			
FIELD RESERVOIR - PLPH (duplicate-not counted) *	55	0	0.0	0	0.0	0			
Monthly	305	0	0.0	0	0.0	0			
<b>July</b>									
FIELD DISTRIBUTION	121	0	0.0	0	0.0	0			
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	55	0	0.0	0	0.0	30	1.64	0.03	7.08
FIELD RESERVOIR - PLPH (duplicate-not counted) *	48	0	0.0	0	0.0	0			
Monthly	284	0	0.0	0	0.0	30	1.64	0.03	0.03
<b>August</b>									
FIELD DISTRIBUTION	118	0	0.0	0	0.0	60	0.49	0.04	3.81
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	52	0	0.0	0	0.0	52	1.26	0.04	4.06
FIELD RESERVOIR - PLPH (duplicate-not counted) *	48	0	0.0	0	0.0	0			
Monthly	278	0	0.0	0	0.0	112	0.85	0.04	0.04
<b>September</b>									
FIELD DISTRIBUTION	122	0	0.0	0	0.0	61	0.31	0.05	1.16
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	59	0	0.0	0	0.0	59	0.42	0.06	1.25
FIELD RESERVOIR - PLPH (duplicate-not counted) *	52	0	0.0	0	0.0	0			
Monthly	293	0	0.0	0	0.0	120	0.36	0.05	0.05
<b>October</b>									
FIELD DISTRIBUTION	108	0	0.0	0	0.0	64	1.13	0.03	33.37
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	58	0	0.0	0	0.0	58	0.29	0.04	2.67
FIELD RESERVOIR - PLPH (duplicate-not counted) *	54	0	0.0	0	0.0	0			
Monthly	280	0	0.0	0	0.0	122	0.73	0.03	0.03



**2.2.2 Bacteriological Data: Distribution System  
2020**

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
<b>November</b>									
FIELD DISTRIBUTION	102	0	0.0	0	0.0	60	0.51	0.04	11.72
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	54	0	0.0	0	0.0	54	0.25	0.03	2.07
FIELD RESERVOIR - PLPH (duplicate-not counted) *	48	0	0.0	0	0.0	0			
Monthly	264	0	0.0	0	0.0	114	0.39	0.03	0.03
<b>December</b>									
FIELD DISTRIBUTION	100	0	0.0	0	0.0	47	0.19	0.03	1.00
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	0			
FIELD RESERVOIR	64	0	0.0	0	0.0	50	0.21	0.03	1.00
FIELD RESERVOIR - PLPH (duplicate-not counted) *	60	0	0.0	0	0.0	0			
Monthly	284	0	0.0	0	0.0	97	0.20	0.03	0.03
Year to Date	3,333	0	0.0	0	0.0	755	0.48	0.01	33.37

Guidelines for Canadian Drinking Water Quality recommend 190 bacteriological samples for a city the size of Edmonton. Total Coliform and E.coli testing is required in the AEP Approval. At least 95 of the 190 samples must be tested at ProvLab each month according to our Operations Program.

\* Testing conducted by Laboratory for Provincial Laboratory for Public Health (ProvLAB) are labelled with PLPH.

EPCOR's operations program specifies a minimum of 190 samples to be collected and analyzed in each month for random bacteriological monitoring purposes. Due to the closure of many public places, buildings and facilities because of COVID-19, and to protect the health of our employees, we were able to collect only 177 samples as part of the random program in April. An additional 58 samples were collected as part of system depressurizations and complaint monitoring. AEP was notified of the variance from the operations program (EDGE # 366491).

**2.2.2 Bacteriological Data: Distribution System  
2020**

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)				
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max	
<b>Samples from Complaints</b>										
January	8	0	0.0	0	0.0	0				
February	4	0	0.0	0	0.0	0				
March	5	0	0.0	0	0.0	0				
April	6	0	0.0	0	0.0	0				
May	11	0	0.0	0	0.0	0				
June	9	0	0.0	0	0.0	0				
July	8	0	0.0	0	0.0	0				
August	14	0	0.0	0	0.0	14	0.42	0.06	0.06	
September	12	0	0.0	0	0.0	12	0.36	0.07	0.07	
October	4	0	0.0	0	0.0	5	0.25	0.20	0.20	
November	5	0	0.0	0	0.0	5	0.42	0.13	0.13	
	Year to Date	86	0	0.0	0	0.0	36	0.38	0.06	1.15
<b>Samples from Depressurizations</b>										
January	69	0	0.0	0	0.0	0				
February	51	0	0.0	0	0.0	0				
March	52	0	0.0	0	0.0	0				
April	52	0	0.0	0	0.0	0				
May	61	0	0.0	0	0.0	0				
June	82	0	0.0	0	0.0	0				
July	105	0	0.0	0	0.0	0				
August	102	0	0.0	0	0.0	0				
September	99	0	0.0	0	0.0	0				
October	116	0	0.0	0	0.0	4	0.04	0.14	0.14	
November	87	0	0.0	0	0.0	0				
December	65	0	0.0	0	0.0	0				
	Year to Date	941	0	0.0	0	0.0	4	0.04	0.14	0.14