

**2.2.1 Bacteriological Data: Water Treatment Plants
2022**

	Coliforms, total						E. coli					cATP (pg/mL)			
	Count	# +ve	% +ve	Mean	Min	Max	# +ve	% +ve	Mean	Min	Max	Count	Mean	Min	Max
January															
Rossdale Raw (MPN/100mL)	32	0	0.0	81	1	387	0	0.0	9	1	51	1	10.7	10.7	10.7
E.L. Smith Raw (MPN/100mL)	5	0	0.0	44	31	68	0	0.0	1	1	2	1	15.0	15.0	15.0
Raw River Water Entering the Treatment Plants	37	0	0.0	76	1	387	0	0.0	8	1	51	2	12.9	10.7	15.0
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.61	0.03	1.00
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.43	0.03	1.00
Water Entering the Plant Reservoir	62	0	0.0				0	0.0				62	0.52	0.03	1.00
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.66	0.03	1.00
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.49	0.03	1.00
Treated Water Entering the Distribution System	62	0	0.0				0	0.0				62	0.58	0.03	1.00
February															
Rossdale Raw (MPN/100mL)	29	0	0.0	188	1	1,990	0	0.0	12	1	58	1	24.8	24.8	24.8
E.L. Smith Raw (MPN/100mL)	5	0	0.0	57	19	196	0	0.0	1	1	3	1	29.6	29.6	29.6
Raw River Water Entering the Treatment Plants	34	0	0.0	169	1	1,990	0	0.0	10	1	58	2	27.2	24.8	29.6
Rossdale Treated (PA/100mL)	28	0	0.0				0	0.0				28	0.48	0.03	1.00
E.L. Smith Treated (PA/100mL)	28	0	0.0				0	0.0				28	0.40	0.03	1.00
Water Entering the Plant Reservoir	56	0	0.0				0	0.0				56	0.44	0.03	1.00
Rossdale Reservoir (PA/100mL)	28	0	0.0				0	0.0				28	0.61	0.04	1.00
E.L. Smith Reservoir (PA/100mL)	29	0	0.0				0	0.0				29	0.22	0.03	1.00
Treated Water Entering the Distribution System	57	0	0.0				0	0.0				57	0.41	0.03	1.00

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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
March															
Rossdale Raw (MPN/100mL)	32	0	0.0	1,105	1	7,310	0	0.0	40	1	161	1	11.5	11.5	11.5
E.L. Smith Raw (MPN/100mL)	5	0	0.0	240	8	722	0	0.0	5	1	20	1	15.2	15.2	15.2
Raw River Water Entering the Treatment Plants	37	0	0.0	988	1	7,310	0	0.0	35	1	161	2	13.3	11.5	15.2
Rossdale Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.70	0.03	1.00
E.L. Smith Treated (PA/100mL)	31	0	0.0				0	0.0				31	0.62	0.03	1.00
Water Entering the Plant Reservoir	62	0	0.0				0	0.0				62	0.66	0.03	1.00
Rossdale Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.76	0.03	1.00
E.L. Smith Reservoir (PA/100mL)	31	0	0.0				0	0.0				31	0.53	0.03	1.00
Treated Water Entering the Distribution System	62	0	0.0				0	0.0				62	0.64	0.03	1.00

PA = present or absent, MPN = most probable number, cATP = cellular adenosine triphosphate

2.2.2 Bacteriological Data: Distribution System
March 2022

	Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
	Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
January									
FIELD DISTRIBUTION	91	0	0.0	0	0.0	60	0.09	0.03	0.37
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0				
FIELD RESERVOIR	50	0	0.0	0	0.0	50	0.07	0.02	0.20
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	0	0.0				
Monthly	201	0	0.0	0	0.0	110	0.09	0.02	0.37
February									
FIELD DISTRIBUTION	89	0	0.0	0	0.0	57	0.09	0.03	0.28
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0	3	0.13	0.13	0.13
FIELD RESERVOIR	48	0	0.0	0	0.0	48	0.11	0.03	0.30
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	0	0.0				
Monthly	197	0	0.0	0	0.0	108	0.10	0.03	0.30
March									
FIELD DISTRIBUTION	85	0	0.0	0	0.0	61	0.09	0.03	0.37
FIELD DISTRIBUTION - PLPH	60	0	0.0	0	0.0				
FIELD RESERVOIR	60	0	0.0	0	0.0	60	0.09	0.03	0.58
FIELD RESERVOIR - PLPH (duplicate-not counted)	59	0	0.0	0	0.0				
Monthly	205	0	0.0	0	0.0	121	0.09	0.03	0.58
Year to Date	603	0	0.0	0	0.0	339	0.09	0.02	0.58

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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.

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March 2022**

		Coliforms, total (PA/100 mL)			E. coli (PA/100 mL)		cATP (pg/mL)			
		Count	# +ve	% +ve	# +ve	% +ve	Count	Mean	Min	Max
Samples from Complaints										
January		4	0	0.0	0	0.0	4	0.21	0.03	0.68
February		10	0	0.0	0	0.0	10	0.19	0.03	0.50
March		12	0	0.0	0	0.0	12	0.17	0.07	0.30
Year to Date		26	0	0.0	0	0.0	26	0.18	0.03	0.68
Samples from Depressurizations										
January		67	0	0.0	0	0.0				
February		49	0	0.0	0	0.0				
March		58	0	0.0	0	0.0				
Year to Date		174	0	0.0	0	0.0				