

2.2.1 Bacteriological Data: Water Treatment Plants

June 2018

Treated Water Entering the Distribution System

	ROSSDALE			E.L. SMITH			YTD (combined)			Limit	Unit
	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	Approval	
Coliforms, total	30	0	0	30	0	0	362	0	0	0/100 mL	PA/100 mL
E. coli	30	0	0	30	0	0	362	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	0	0	362	7	2	N/A	CFU/mL

Water Entering the Plant Reservoir

	ROSSDALE			E.L. SMITH			YTD (combined)			Limit	Unit
	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	Approval	
Coliforms, total	30	0	0	30	0	0	361	0	0	N/A	PA/100 mL
E. coli	30	0	0	30	0	0	361	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	2	7	361	10	3	N/A	CFU/mL

Raw River Water Entering the Treatment Plants

	ROSSDALE			E.L. SMITH			YTD (combined)			Limit	Unit
	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	# Samples	# +ve	% +ve	Approval	
Coliforms, total	30	30	100	4	4	100	207	207	100	N/A	MPN/100 mL
E. coli	30	30	100	4	4	100	207	207	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	12	12	100	N/A	CFU/mL

2.2.2 Bacteriological Data: Distribution System

June 2018

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	104	9	8.7
FIELD DISTRIBUTION - PLPH	53	0	0.0	53	0	0.0	0	0	0.0
FIELD RESERVOIR	55	0	0.0	55	0	0.0	55	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	66	0	0.0	66	0	0.0	0	0	0.0
Monthly	214	0	0.0	214	0	0.0	159	9	5.7
February									
FIELD DISTRIBUTION	96	0	0.0	96	0	0.0	96	3	3.1
FIELD DISTRIBUTION - PLPH	66	0	0.0	66	0	0.0	0	0	0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	55	0	0.0	55	0	0.0	0	0	0.0
Monthly	206	0	0.0	206	0	0.0	140	3	2.1
March									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	6	6.2
FIELD DISTRIBUTION - PLPH	58	0	0.0	58	0	0.0	0	0	0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	1	2.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	55	0	0.0	55	0	0.0	0	0	0.0
Monthly	199	0	0.0	199	0	0.0	141	7	5.0
April									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	7	7.2
FIELD DISTRIBUTION - PLPH	57	0	0.0	57	0	0.0	0	0	0.0
FIELD RESERVOIR	44	0	0.0	44	0	0.0	44	1	2.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	44	0	0.0	44	0	0.0	0	0	0.0
Monthly	198	0	0.0	198	0	0.0	141	8	5.7
May									
FIELD DISTRIBUTION	152	1	0.7	152	0	0.0	152	15	9.9
FIELD DISTRIBUTION - PLPH	60	0	0.0	60	0	0.0	0	0	0.0
FIELD RESERVOIR	58	0	0.0	58	0	0.0	58	4	6.9
FIELD RESERVOIR - PLPH (duplicate-not counted)	57	0	0.0	57	0	0.0	0	0	0.0
Monthly	270	1	0.4	270	0	0.0	210	19	9.0

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	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
June									
FIELD DISTRIBUTION	124	0	0.0	124	0	0.0	124	5	4.0
FIELD DISTRIBUTION - PLPH	58	0	0.0	58	0	0.0	0	0	0.0
FIELD RESERVOIR	52	0	0.0	52	0	0.0	52	1	1.9
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	234	0	0.0	234	0	0.0	176	6	3.4
Year to Date	1,321	1	0.1	1,321	0	0.0	967	52	5.4

Guidelines for Canadian Drinking Water Quality recommend 180 bacteriological samples for a city the size of Edmonton. Total Coliform and E.coli testing is required in the AEP Approval. HPC bacteria testing is additional testing and is not required by approval.

Testing conducted by Laboratory for Public Health are labelled with PLPH.

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	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
Samples from Complaints									
January	7	0	0.0	7	0	0.0	7	1	14.3
February	5	0	0.0	5	0	0.0	5	0	0.0
March	6	0	0.0	6	0	0.0	6	0	0.0
April	3	0	0.0	3	0	0.0	3	0	0.0
May	4	0	0.0	4	0	0.0	4	0	0.0
June	5	0	0.0	5	0	0.0	5	0	0.0
Year to Date	30	0	0.0	30	0	0.0	30	1	3.3
Samples from Depressurizations									
January	76	0	0.0	76	0	0.0	0	0	0.0
February	101	0	0.0	101	0	0.0	0	0	0.0
March	64	0	0.0	64	0	0.0	0	0	0.0
April	59	0	0.0	59	0	0.0	0	0	0.0
May	115	1	0.9	115	0	0.0	9	2	22.2
June	80	0	0.0	80	0	0.0	0	0	0.0
Year to Date	495	1	0.2	495	0	0.0	9	2	22.2