

2.2.1 Bacteriological Data: Water Treatment Plants

March 2017

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	31	0	0	31	0	0	180	0	0	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	180	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	0	0	180	2	1	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	31	0	0	31	0	0	180	0	0	N/A	PA/100 mL
E. coli	31	0	0	31	0	0	180	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	0	0	180	3	2	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	6	6	100	104	104	100	N/A	MPN/100 mL
E. coli	30	30	100	6	6	100	104	104	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	6	6	100	N/A	CFU/mL

2.2.2 Bacteriological Data: Distribution System

March 2017

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	2	1.9
FIELD DISTRIBUTION - PLPH	62	0	0.0	62	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0		0.0
Monthly	217	0	0.0	217	0	0.0	155	2	1.3
February									
FIELD DISTRIBUTION	111	0	0.0	111	0	0.0	106	3	2.8
FIELD DISTRIBUTION - PLPH	54	1	1.9	54	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	2	4.2
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0		0.0
Monthly	213	1	0.5	213	0	0.0	154	5	3.2
March									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	8	7.5
FIELD DISTRIBUTION - PLPH	54	1	1.9	54	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	0	0.0	58	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	58	0	0.0	58	0	0.0	0		0.0
Monthly	220	1	0.5	220	0	0.0	164	8	4.9
Year to Date	650	2	0.3	650	0	0.0	473	15	3.2

Guidelines for Canadian Drinking Water Quality recommend 180 bacteriological samples for a city the size of Edmonton. HPC are not required.

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

2.2.2 Bacteriological Data: Distribution System

March 2017

Samples from Depressurizations

	Coliforms, total			E. coli		
	Count	# +ve	% +ve	Count	# +ve	% +ve
January	64	0	0.0	64	0	0.0
February	65	0	0.0	65	0	0.0
March	65	0	0.0	65	0	0.0
YTD	194	0	0.0	194	0	0.0

Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	9	0	0.0	9	0	0.0	9	1	11.1
February	9	0	0.0	9	0	0.0	9	0	0.0
March	6	0	0.0	6	0	0.0	6	1	16.7
YTD	24	0	0.0	24	0	0.0	24	2	8.3