

**2.2.1 Bacteriological Data: Water Treatment Plants**

March 2016

**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	184	1	1	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	184	1	1	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	1	3	31	0	0	183	5	3	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	184	0	0	N/A	PA/100 mL
E. coli	31	0	0	31	0	0	184	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	0	0	183	1	1	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	31	31	100	5	5	100	106	106	100	N/A	MPN/100 mL
E. coli	31	31	100	5	5	100	106	106	100	N/A	MPN/100 mL
Heterotrophic Plate Count	0	0	0	0	0	0	5	5	100	N/A	CFU/mL

January: Incorrect sampling procedure produced a false *E. coli* result at E.L. Smith WTP.

## 2.2.2 Bacteriological Data: Distribution System

March 2016

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>January</b>									
FIELD DISTRIBUTION	115	0	0.0	115	0	0.0	115	9	7.8
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	48	0	0.0	48	0	0.0	48	1	2.1
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	163	10	6.1
<b>February</b>									
FIELD DISTRIBUTION	110	0	0.0	110	0	0.0	110	1	0.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	47	0	0.0	47	0	0.0	47	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	47	0	0.0	47	0	0.0	0		0.0
Monthly	211	0	0.0	211	0	0.0	157	1	0.6
<b>March</b>									
FIELD DISTRIBUTION	107	0	0.0	107	0	0.0	107	2	1.9
FIELD DISTRIBUTION - PLPH	54	0	0.0	54	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	0	0.0	60	2	3.3
FIELD RESERVOIR - PLPH (duplicate-not counted)	59	0	0.0	59	0	0.0	0		0.0
Monthly	221	0	0.0	221	0	0.0	167	4	2.4
Year to Date	649	0	0.0	649	0	0.0	487	15	3.1

Guidelines for Canadian Drinking Water Quality recommend 178 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

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### Samples from Depressurizations

	Coliforms, total			E. coli		
	Count	# +ve	% +ve	Count	# +ve	% +ve
January	46	0	0.0	46	0	0.0
February	50	0	0.0	50	0	0.0
March	70	0	0.0	70	0	0.0
YTD	166	0	0.0	166	0	0.0

### Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	11	0	0.0	11	0	0.0	11	0	0.0
February	12	0	0.0	12	0	0.0	12	0	0.0
March	16	0	0.0	16	0	0.0	16	0	0.0
YTD	39	0	0.0	39	0	0.0	39	0	0.0