

## 2.2.1 Bacteriological Data: Water Treatment Plants

December 2015

### 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	730	0	0	0/100 mL	PA/100 mL
E. coli	31	0	0	31	0	0	730	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	31	1	3	31	0	0	730	12	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	31	0	0	31	0	0	730	0	0	N/A	PA/100 mL
E. coli	31	0	0	31	0	0	730	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	31	0	0	31	0	0	730	9	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	4	4	100	417	417	100	N/A	MPN/100 mL
E. coli	31	31	100	4	4	100	417	417	100	N/A	MPN/100 mL
Heterotrophic Plate Count	1	1	100	1	1	100	16	16	100	N/A	CFU/mL

## 2.2.2 Bacteriological Data: Distribution System

December 2015

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>January</b>									
FIELD DISTRIBUTION	105	0	0.0	105	0	0.0	105	3	2.9
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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)	39	0	0.0	39	0	0.0	0		0.0
Monthly	199	0	0.0	199	0	0.0	149	3	2.0
<b>February</b>									
FIELD DISTRIBUTION	103	0	0.0	103	0	0.0	103	8	7.8
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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)	44	0	0.0	44	0	0.0	0		0.0
Monthly	197	0	0.0	197	0	0.0	147	8	5.4
<b>March</b>									
FIELD DISTRIBUTION	99	0	0.0	99	0	0.0	98	5	5.1
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	0	0.0	0		0.0
FIELD RESERVOIR	58	0	0.0	58	0	0.0	58	3	5.2
FIELD RESERVOIR - PLPH (duplicate-not counted)	58	0	0.0	58	0	0.0	0		0.0
Monthly	207	0	0.0	207	0	0.0	156	8	5.1
<b>April</b>									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	97	4	4.1
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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	195	0	0.0	195	0	0.0	145	5	3.4
<b>May</b>									
FIELD DISTRIBUTION	114	0	0.0	114	0	0.0	113	7	6.2
FIELD DISTRIBUTION - PLPH	50	0	0.0	50	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	160	7	4.4
<b>June</b>									
FIELD DISTRIBUTION	120	1	0.8	120	0	0.0	120	10	8.3
FIELD DISTRIBUTION - PLPH	51	0	0.0	51	0	0.0	0		0.0
FIELD RESERVOIR	60	0	0.0	60	0	0.0	60	6	10.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	60	0	0.0	60	0	0.0	0		0.0
Monthly	231	1	0.4	231	0	0.0	180	16	8.9

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

December 2015

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
<b>July</b>									
FIELD DISTRIBUTION	117	1	0.9	117	0	0.0	117	9	7.7
FIELD DISTRIBUTION - PLPH	52	0	0.0	52	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	217	1	0.5	217	0	0.0	165	11	6.7
<b>August</b>									
FIELD DISTRIBUTION	98	0	0.0	98	0	0.0	93	10	11
FIELD DISTRIBUTION - PLPH	52	0	0.0	52	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)	47	0	0.0	47	0	0.0	0		0.0
Monthly	198	0	0.0	198	0	0.0	141	11	7.8
<b>September</b>									
FIELD DISTRIBUTION	93	0	0.0	93	0	0.0	93	3	3.2
FIELD DISTRIBUTION - PLPH	52	0	0.0	52	0	0.0	0		0.0
FIELD RESERVOIR	55	0	0.0	55	0	0.0	55	1	1.8
FIELD RESERVOIR - PLPH (duplicate-not counted)	55	0	0.0	55	0	0.0	0		0.0
Monthly	200	0	0.0	200	0	0.0	148	4	2.7
<b>October</b>									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	5	4.7
FIELD DISTRIBUTION - PLPH	52	1	1.9	52	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
Monthly	202	1	0.5	202	0	0.0	150	6	4.0
<b>November</b>									
FIELD DISTRIBUTION	102	0	0.0	102	0	0.0	102	3	2.9
FIELD DISTRIBUTION - PLPH	52	0	0.0	52	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)	44	0	0.0	44	0	0.0	0		0.0
Monthly	198	0	0.0	198	0	0.0	146	3	2.1
<b>December</b>									
FIELD DISTRIBUTION	104	0	0.0	104	0	0.0	104	1	1.0
FIELD DISTRIBUTION - PLPH	52	0	0.0	52	0	0.0	0		0.0
FIELD RESERVOIR	59	0	0.0	59	0	0.0	59	0	0.0
FIELD RESERVOIR - PLPH (duplicate-not counted)	59	0	0.0	59	0	0.0	0		0.0
Monthly	215	0	0.0	215	0	0.0	163	1	0.6
Year to Date	2,470	3	0.1	2,470	0	0.0	1,850	83	4.5

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December 2015

### Samples from Depressurizations

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	38	0	0.0	38	0	0.0	0	0	0.0
February	36	0	0.0	36	0	0.0	0	0	0.0
March	55	0	0.0	55	0	0.0	0	0	0.0
April	40	0	0.0	40	0	0.0	0	0	0.0
May	57	0	0.0	57	0	0.0	0	0	0.0
June	93	0	0.0	93	0	0.0	0	0	0.0
July	91	1	1.1	91	0	0.0	1	0	0.0
August	96	2	2.1	96	0	0.0	0	0	0.0
September	89	1	1.1	89	0	0.0	0	0	0.0
October	69	1	1.4	69	0	0.0	0	0	0.0
November	82	1	1.2	82	0	0.0	1	0	0.0
December	41	0	0.0	41	0	0.0	0	0	0.0
YTD	787	6	0.8	787	0	0.0	2	0	0.0

### Samples from Complaints

	Coliforms, total			E. coli			Heterotrophic Plate Count		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January	5	0	0.0	5	0	0.0	5	0	0.0
February	1	0	0.0	1	0	0.0	1	0	0.0
March	8	0	0.0	8	0	0.0	8	1	12.5
April	4	0	0.0	4	0	0.0	4	0	0.0
May	6	0	0.0	6	0	0.0	6	0	0.0
June	4	0	0.0	4	0	0.0	4	0	0.0
July	5	0	0.0	5	0	0.0	5	1	20.0
August	13	1	7.7	13	0	0.0	13	0	0.0
September	14	0	0.0	14	0	0.0	14	0	0.0
October	14	0	0.0	14	0	0.0	14	0	0.0
November	22	0	0.0	22	0	0.0	22	1	4.5
December	15	0	0.0	15	0	0.0	15	0	0.0
YTD	111	1	0.9	111	0	0.0	111	3	2.7