

2.2.1 Bacteriological Data: Water Treatment Plants

September 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	30	0	0	30	0	0	546	0	0	0/100 mL	PA/100 mL
E. coli	30	0	0	30	0	0	546	0	0	0/100 mL	PA/100 mL
Heterotrophic Plate Count	30	1	3	30	0	0	546	10	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	546	0	0	N/A	PA/100 mL
E. coli	30	0	0	30	0	0	546	0	0	N/A	PA/100 mL
Heterotrophic Plate Count	30	0	0	30	0	0	546	7	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	30	30	100	5	5	100	313	313	100	N/A	MPN/100 mL
E. coli	30	30	100	5	5	100	313	313	100	N/A	MPN/100 mL
Heterotrophic Plate Count	0	0	0	0	0	0	10	10	100	N/A	CFU/mL

2.2.2 Bacteriological Data: Distribution System

September 2015

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
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
February									
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
March									
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
April									
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
May									
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
June									
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.

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	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
July									
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
August									
FIELD DISTRIBUTION	97	0	0.0	97	0	0.0	92	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	197	0	0.0	197	0	0.0	140	11	7.9
September									
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
Year to Date	1,854	2	0.1	1,854	0	0.0	1,390	73	5.3

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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
YTD	595	4	0.7	595	0	0.0	1	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
YTD	60	1	1.7	60	0	0.0	60	2	3.3