

2.2.1 Bacteriological Data: Water Treatment Plants

March 2019

Treated Water Entering the Distribution System

	# of +VE Samples YTD		# of Samples YTD		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	90	90	0/100 mL	[Daily]	PA/100mL
E. coli	0	0	90	90	0/100 mL	[Daily]	PA/100mL
Heterotrophic Plate Count	90	90	90	90	N/A	[Daily]	CFU/mL

Water Entering the Plant Reservoir

	# of +VE Samples YTD		# of Samples YTD		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	90	90	N/A	[Daily]	PA/100mL
E. coli	0	0	90	90	N/A	[Daily]	PA/100mL
Heterotrophic Plate Count	90	90	90	90	N/A	[Daily]	CFU/mL

Raw River Water Entering the Treatment Plants

								Limits		Unit	
	ROSSDALE			E.L. SMITH			Rossdale	Smith	GCDWQ or Approval		Required Frequency - Each Plant*
	Mean	Min	Max	Mean	Min	Max	# of Samples YTD				
Coliforms, total	1,244	0	10,300	2,227	261	22,400	93	15	N/A	[Weekly]	MPN/100 mL
E. coli	122	0	798	258	64	830	93	15	N/A	[Weekly]	MPN/100 mL
Heterotrophic Plate Count	117	50	210	277	80	520	3	3	N/A	[Monthly]	[CFU/mL]

* Indicates EPCOR Operations Program.

2.2.2 Bacteriological Data: Distribution System

March 2019

	Coliforms, total			E. coli			HPC		
	Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
January									
FIELD DISTRIBUTION	114	0	0.0	114	0	0.0	114	114	100
FIELD DISTRIBUTION - PLPH	57	0	0.0	57	0	0.0	0	0	0.0
FIELD RESERVOIR	66	0	0.0	66	0	0.0	66	66	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	60	0	0.0	60	0	0.0	0	0	0.0
Monthly	237	0	0.0	237	0	0.0	180	180	100.0
February									
FIELD DISTRIBUTION	94	0	0.0	94	0	0.0	94	94	100
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	0	0.0	0	0	0.0
FIELD RESERVOIR	54	0	0.0	54	0	0.0	54	54	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	204	0	0.0	204	0	0.0	148	148	100.0
March									
FIELD DISTRIBUTION	106	0	0.0	106	0	0.0	106	106	100
FIELD DISTRIBUTION - PLPH	56	0	0.0	56	0	0.0	0	0	0.0
FIELD RESERVOIR	52	0	0.0	52	0	0.0	52	52	100
FIELD RESERVOIR - PLPH (duplicate-not counted)	48	0	0.0	48	0	0.0	0	0	0.0
Monthly	214	0	0.0	214	0	0.0	158	158	100.0
Year to Date	655	0	0.0	655	0	0.0	486	486	100.0

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.

2.2.2 Bacteriological Data: Distribution System

March 2019

		Coliforms, total			E. coli			HPC		
		Count	# +ve	% +ve	Count	# +ve	% +ve	Count	# +ve	% +ve
Samples from Complaints										
January		13	0	0.0	13	0	0.0	13	13	100.0
February		14	0	0.0	14	0	0.0	14	14	100.0
March		11	0	0.0	11	0	0.0	9	9	100.0
Year to Date		38	0	0.0	38	0	0.0	36	36	100.0
Samples from Depressurizations										
January		61	0	0.0	61	0	0.0	0	0	0.0
February		60	0	0.0	60	0	0.0	0	0	0.0
March		105	1	1.0	105	0	0.0	0	0	0.0
Year to Date		226	1	0.4	226	0	0.0	0	0	0.0