

2.2.1 Bacteriological Data: Water Treatment Plants

February 2019

Treated Water Entering the Distribution System

	# of +VE Samples		# of Samples		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	59	59	0/100 mL	[Daily]	PA/100mL
E. coli	0	0	59	59	0/100 mL	[Daily]	PA/100mL
Heterotrophic Plate Count	59	59	59	59	N/A	[Daily]	CFU/mL

Water Entering the Plant Reservoir

	# of +VE Samples		# of Samples		Limit	Required Frequency - Each Plant*	Unit
	Rossdale	Smith	Rossdale	Smith			
Coliforms, total	0	0	59	59	N/A	[Daily]	PA/100mL
E. coli	0	0	59	59	N/A	[Daily]	PA/100mL
Heterotrophic Plate Count	59	59	59	59	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				
Coliforms, total	587	0	4,200	821	435	1,410	61	10	N/A	[Weekly]	MPN/100 mL
E. coli	122	0	798	252	84	461	61	10	N/A	[Weekly]	MPN/100 mL
Heterotrophic Plate Count	150	90	210	375	230	520	2	2	N/A	[Monthly]	[CFU/mL]

* Indicates EPCOR Operations Program.

**2.2.2 Bacteriological Data: Distribution System
February 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
Year to Date	441	0	0.0	441	0	0.0	328	328	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

February 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
Year to Date		27	0	0.0	27	0	0.0	27	27	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
Year to Date		121	0	0.0	121	0	0.0	0	0	0.0