

Hamlet of Resolute Bay 2014 - 2016 Wastewater Testing

		Utilidor Discharge Pipe	Sewage Lagoon	Lagoon Decanting Begin	Lagoon Decanting Middle
Client Sample I.D.		B14-11617-1	B14-11619-1	B14-20416-1	B14-20416-2
Lab Sample I.D.		20-May-14	20-May-14	08-Aug-14	08-Aug-14
Date Collected		22-May-14	22-May-14	13-Jul-14	13-Jul-14
Date Received		4-Jun-14	4-Jun-14	21-Jul-14	21-Jul-14
Date Reported					
Parameters	MDL				
BOD	3	16	632	674	372
Total Suspended Solids	3	3	156	140	64
Hardness (as CaCO ₃)	1	179	181	237	161
Alkalinity(CaCO ₃) to pH4.5	5	111	383	610	404
Conductivity @25°C	1	533	1310	1720	1200
pH @25°C		7.87	7.39	7.65	7.68
Nitrite (N)	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate (N)	0.1	0.3	< 0.1	< 0.1	< 0.1
Chloride	0.5	54.5	98.6	119	97
Sulphate	1	73	68	31	44
Total Organic Carbon	0.2	2	73.6	272	113
Ammonia (N)-Total	0.01	0.24	74.1	113	76.7
Phenolics	0.001	< 0.001	0.208	0.189	0.268
Aluminum (total)	0.01	0.1	0.67	0.35	0.26
Arsenic	0.0005	< 0.0005	< 0.0005	0.0027	0.0011
Calcium	0.02	50.6	53.7	68.7	45.8
Cadmium	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	0.002	0.01	0.176	0.094	0.126
Chromium	0.002	< 0.002	0.004	0.005	0.006
Iron (Total)	0.005	0.005	0.94	4.27	1.11
Lead	0.02	< 0.02	< 0.02	< 0.02	< 0.02
Magnesium	0.01	12.8	11.4	15.8	11.3
Manganese (Total)	0.001	0.006	0.212	0.209	0.094
Mercury	0.00002	< 0.00002	0.00004	< 0.00002	< 0.00002
Nickel	0.01	< 0.01	< 0.01	0.01	< 0.01
Potassium	0.1	3.7	24.5	35.2	26.5
Sodium	0.2	40.1	80.9	98.7	79.2
Zinc	0.005	0.007	0.286	0.122	0.117
Oil & Grease-Total	1	< 1.0	340	42.2	42.7
Fecal Coliform	1	5700	6600000	660000	670000

Lagoon Decanting End	RUT-2	Lagoon	Utilidor Discharge Pipe	Waste Water Truck	Sewer Outfall
B14-20416-3	B14-25083-1	B14-32093-1	B14-32094-1	B14-32098-1	B15-15517-1
09-Aug-14	24-Sep-14	05-Nov-14	05-Dec-14	05-Nov-14	22-Jun-15
13-Jul-14	26-Sep	12-Dec	12-Dec		25-Jun-15
21-Jul-14	8-Oct	18-Dec	19-Dec		9-Jul-15
382	10	933	11	1390	8
72	8	196	18	304	9
165	153	166	179	167	126
443	98	461	114	299	97
1290	387	1430	682	1180	345
7.69	7.76	6.78	7.03	5.71	7.49
< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
< 0.1	0.2	0.1	0.2	0.2	0.4
98.4	31.5	96.2	103	81.8	20.5
43	53	12	95	46	41
137	5.1	239	1.9	371	3.0
80.5	1.28	79.3	2.46	71.8	0.48
0.268	< 0.001	0.229	0.002	0.095	0.083
0.27	0.07	0.66	0.2	1.77	0.07
0.0011	< 0.0005	0.0001	0.0001	< 0.0001	< 0.0005
47.1	45.6	47.3	48.4	49	37.5
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
0.11	0.029	0.127	0.014	0.16	0.007
0.005	< 0.002	0.003	< 0.002	0.004	< 0.002
1.19	0.118	2.19	0.035	2.49	0.074
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
11.4	9.4	11.7	14.2	10.9	7.87
0.114	0.027	0.104	0.004	0.099	0.004
< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01
25.7	3.4	29.9	4.7	24.9	2.2
76.1	23.5	86.7	61.2	78.1	14.6
0.11	0.074	0.145	0.019	0.196	0.01
45.8	2	12.1	6.8	199	1.2
750000	10400	480000	2000	830000	7400

Lagoon WW - 4:00pm	Utilidor Discharge Pipe WW- 4:30pm	Sewer Outfall	Sewer Discharge Pipe	Sewage Lagoon YRB 2	Sewage Lagoon YRB 3	Sewage Lagoon YRB 1
B16-05728-1	B16-05731-1	B16-10695-1	B16-16035-1	B16-18739-1	B16-18739-2	B16-18739-3
24-Feb-16	24-Feb-16	25-Apr-16	42516	30-Jun-16	30-Jun-16	30-Jun-16
8-Mar-16	8-Mar-16	27-Apr-16	9-Jun-16	4-Jul-16	4-Jul-16	4-Jul-16
15-Mar-16	15-Mar-16	3-May-16	20-Jun-16	12-Jul-16	12-Jul-16	12-Jul-16
492	11	6	19	186	< 3	< 3
212	5	3	4	36	< 3	< 3
177	147	173	190	101	89	85
611	110	114	116	251	93	80
1740	579	566	593	732	189	184
7.56	7.56	7.94	7.92	7.6	7.85	7.89
< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
< 0.1	< 0.1	0.2	0.1	0.1	< 0.1	0.1
109	74.1	62.5	76.3	53.4	6.2	6.5
58	81	75	80	29	8	8
194	2.9	1.3	1.7	88	2.5	1.9
136	0.02	0.07	0.41	33.9	< 0.01	< 0.01
0.419	0.002	< 0.001	< 0.001	0.122	< 0.001	< 0.001
0.27	0.02	0.03	0.03	0.08	< 0.01	< 0.01
0.0008	< 0.0005	0.0008	< 0.0005	< 0.0005	< 0.0005	< 0.0005
49.9	41.4	49	53.4	28	26.3	24.7
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
0.181	0.013	0.013	0.009	0.041	< 0.002	< 0.002
0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
0.768	0.072	0.024	0.026	0.6	0.005	< 0.005
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
12.8	10.6	12.2	13.7	7.61	5.65	5.72
0.065	0.002	0.006	0.02	0.053	< 0.001	< 0.001
0.00006	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
34.6	3.7	3.8	4.0	16.2	0.31	0.55
83.7	40.5	40.6	48.9	50.1	6.4	7.1
0.284	0.016	0.023	0.015	0.061	< 0.005	< 0.005
84.9	6.1	2	1.5	98.7	< 1.0	< 1.0
1000000	160	56	37	220	< 10	< 10

Sewer Outfall Res. Bay	Sample Sewer
B16-18741-1	B16-22948
30-Jun-16	1-Aug-16
4-Jul-16	4-Aug-16
12-Jul-16	10-Aug-16
6	15
< 3	18
144	150
103	97
405	471
7.95	7.75
< 0.1	< 0.1
0.3	0.3
36.8	55.4
51	64
0.9	9.2
0.26	0.02
< 0.001	< 0.001
0.05	0.05
< 0.0005	0.0005
42.2	41.5
< 0.005	< 0.005
< 0.005	< 0.005
0.01	0.023
< 0.002	< 0.002
0.051	0.074
< 0.02	< 0.02
9.46	11.2
0.003	0.005
< 0.00002	< 0.00002
< 0.01	< 0.01
2.5	3.4
26.7	35.4
0.021	0.042
< 1.0	2.8
1600	1500