

FORBES SEWAGE TREATMENT WORKS - LICENSE TESTING
Monitoring Point 5

Date Sampled	Effective Month	6/Jan/17	4/Jul/17	9/Aug/17	6/Sep/17	10/Oct/17	27/Nov/17	11/Dec/17	8/Jan/18	5/Feb/18	21/Mar/18	23/Apr/18	14/May/18	13/Jun/18	4/Jul/17	7/Aug/18	17/Sep/18							
		Jun/17	Jul/17	Aug/17	Sep/17	Oct/17	Nov/17	Dec/17	Jan/18	Feb/18	Mar/18	Apr/18	May/18	Jun/18	Jul/17	Aug/18	Sep/18							
Parameters Monitored	License Limit	90 percentile limit																				Min	Average	Max
pH	6.8 - 8.5	6.8 - 8.5	7.10	7.20	7.20	7.10	7.00	7.30	7.20	6.90	7.00	6.90	6.90	6.70	6.80	7.10	7.00	6.50	13	6.50	6.94	7.30		
Total Nitrogen	15	10	3.50	5.00	4.30	4.30	3.30	3.70	4.10	3.70	5.80	4.50	7.60	5.20	5.00	4.90	3.60	3.10	13	3.10	4.54	7.60		
Total Phosphorus	0.5		0.10	0.06	0.06	0.07	0.07	0.05	0.07	0.09	0.05	0.06	0.06	0.05	0.05	0.05	0.05	1.00	13	0.05	0.14	1.00		
Faecal Coliforms	600	200	1.00	1.00	1.00	1.00	1,760.00	1.00	10.00	6.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13	1.00	148.75	1760.00		
BOD5	15	10	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	13	2.00	2.00	2.00		
Non Filterable Residue	20	15	6.00	5.00	6.00	9.00	6.00	5.00	10.00	4.00	5.00	9.00	7.00	6.00	6.00	7.00	7.00	13	4.00	6.42	10.00			
Ammonia	5	2	0.05	0.14	0.32	0.24	0.46	0.29	0.04	1.00	0.25	0.62	0.20	0.10	0.77	0.51	0.54	0.28	13	0.04	0.42	1.00		
Oil and Grease	15	10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	13	2.00	2.00	2.00		
Chlorophyll-a ug/L			2.00	2.00	2.00	2.00	2.00	2.00	2.00	7.00	106.00	2.00	2.00	2.00	6.00	2.00	2.00	2.00	13					

Indicates results exceed the licence limits Indicates result was < the number given

GUM SWAMP - EPA LICENSE TESTING
Monitoring Point 7

Date Sampled	Effective Month	6/Jan/17	4/Jul/17	9/Aug/17	6/Sep/17	10/Oct/17	27/Nov/17	11/Dec/17	8/Jan/18	5/Feb/18	21/Mar/18	23/Apr/18	14/May/18	13/Jun/18	4/Jul/17	7/Aug/18	17/Sep/18							
		Jun/17	Jul/17	Aug/17	Sep/17	Oct/17	Nov/17	Dec/17	Jan/18	Feb/18	Mar/18	Apr/18	May/18	Jun/18	Jul/17	Aug/18	Sep/18							
Parameters Monitored	License Limit	90 percentile limit																				Min	Average	Max
pH			9.00	8.80	8.70	7.60	7.70	8.30	8.50	8.00	7.80	8.20	8.10	8.40	8.50	8.80	7.50	7.50	12	7.50	8.11	8.80		
Total Nitrogen mg/l			2.90	3.20	3.40	7.00	9.30	5.70	7.40	9.00	7.10	7.50	5.40	5.50	5.20	4.90	4.10	9.60	12	4.10	6.73	9.60		
Total P mg/l			0.33	0.46	0.58	0.47	0.61	1.10	1.00	1.10	1.00	0.85	0.91	0.92	0.87	0.59	0.25	0.39	12	0.25	0.80	1.10		
Faecal Coliforms CFU/100mL			262.00	187.00	455.00	8.00	1046.00	2987.00	291.00	663.00	1782.00	2909.00	308.00	3873.00	816.00	126.00	32.00	96.00	12	32.00	1244.08	3873.00		
BOD5			12.00	14.00	18.00	10.00	3.00	29.00	28.00	59.00	18.00	20.00	18.00	14.00	20.00	5.00	2.00	2.00	12	2.00	20.08	59.00		
Non Filterable Residue mg/l			53.00	97.00	105.00	68.00	34.00	151.00	113.00	158.00	145.00	131.00	150.00	130.00	94.00	72.00	23.00	20.00	12	20.00	101.75	158.00		
Ammonia mg/l			0.02	0.01	0.01	4.40	6.80	0.01	1.60	0.84	0.01	0.01	0.19	0.01	0.10	2.00	2.10	7.10	12	0.01	1.73	7.10		
Oil and Grease mg/l			2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	<2	2.00	12	2.00	1.92	3.00			

Indicates result was < the number given

RIVER DOWNSTREAM
Monitoring Point 9

Date Sampled	Effective Month	6/Jan/17	4/Jul/17	9/Aug/17	6/Sep/17	10/Oct/17	27/Nov/17	11/Dec/17	8/Jan/18	5/Feb/18	21/Mar/18	23/Apr/18	14/May/18	13/Jun/18	4/Jul/17	7/Aug/18	17/Sep/18							
		Jun/17	Jul/17	Aug/17	Sep/17	Oct/17	Nov/17	Dec/17	Jan/18	Feb/18	Mar/18	Apr/18	May/18	Jun/18	Jul/17	Aug/18	Sep/18							
Parameters Monitored	License Limit	90 percentile limit																				Min	Average	Max
pH			7.70	7.80	7.90	7.80	7.70	8.00	7.40	7.80	7.60	7.60	7.70	8.00	7.70	8.00	7.80	7.80	12	7.40	7.76	8.00		
Total Nitrogen mg/L			0.70	0.84	0.97	0.81	0.86	0.85	1.60	0.85	1.00	0.75	0.74	0.69	0.64	0.68	0.50	0.69	12	0.50	0.82	1.60		
Total Phosphorus mg/L			0.05	0.05	0.09	0.05	0.08	0.07	0.11	0.06	0.08	0.07	0.06	0.05	0.05	0.05	0.06	0.05	12	0.05	0.07	0.11		
Faecal Coliforms CFU/100mL			105.00	37.00	93.00	27.00	326.00	115.00	2420.00	365.00	47.00	1046.00	816.00	194.00	488.00	21.00	3.00	18.00	12	3.00	488.25	2420.00		
BOD5			2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	12	2.00	2.00	2.00		
Suspended Solids mg/L			10.00	39.00	66.00	35.00	57.00	61.00	95.00	28.00	47.00	49.00	28.00	28.00	37.00	16.00	27.00	2.00	12	2.00	39.58	95.00		
Ammonia mg/l			0.01	0.01	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	12	0.01	0.01	0.02		
Oil and Grease mg/l			2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	11	2.00	2.00	2.00		

Indicates result was < the number given

RIVER UPSTREAM
Monitoring Point 10

Date Sampled	Effective Month	6/Jan/17	4/Jul/17	9/Aug/17	6/Sep/17	10/Oct/17	27/Nov/17	11/Dec/17	8/Jan/18	5/Feb/18	21/Mar/18	23/Apr/18	14/May/18	13/Jun/18	4/Jul/17	7/Aug/18	17/Sep/18							
		Jun/17	Jul/17	Aug/17	Sep/17	Oct/17	Nov/17	Dec/17	Jan/18	Feb/18	Mar/18	Apr/18	May/18	Jun/18	Jul/17	Aug/18	Sep/18							
Parameters Monitored	License Limit	90 percentile limit																				Min	Average	Max
pH			7.90	7.90	7.90	7.80	7.60	7.80	7.40	7.30	7.60	7.60	7.60	7.70	7.70	8.10	7.80	7.80	12	7.30	7.67	8.10		
Total Nitrogen mg/L			0.89	0.68	0.94	0.88	1.20	0.78	1.80	3.90	0.99	0.76	0.67	0.67	0.72	0.76	0.62	<0.05	12	0.62	1.07	3.90		
Total Phosphorus mg/L			0.05	0.05	0.08	0.05	0.09	0.06	0.34	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	11	0.05	0.09	0.34		
Faecal Coliforms CFU/100mL			77.00	91.00	96.00	78.00	10344.00	161.00	816.00	24196.00	308.00	461.00	260.00	114.00	291.00	53.00	8.00		11	8.00	3364.73	24196.00		
BOD5			3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00		11	2.00	2.00	2.00		
Suspended Solids mg/L			15.00	15.00	42.00	39.00	67.00	57.00	81.00	28.00	45.00	43.00	28.00	25.00	34.00	18.00	33.00		11	18.00	41.73	81.00		
Ammonia mg/l			0.02	0.01	0.03	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01		11	0.01	0.01	0.05		
Oil and Grease mg/l			2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00		12	2.00	1.67	2.00		

Indicates result was < the number given