

APPENDIX 4 - SEWAGE QUALITY

Sewage work	Date	TDS (limit 840 mg/l)	SS (limit 15 mg/l)	free & saline NH3 (limit 5 mg/l)	Nitrate (limit 10 mg/l)	Nitrite (limit 0.2 mg/l)	O2 absorbed (limit 3.6)	COD (limit 50 mg/l)	Dissolved O2 (limit 69.16)	Ph (range 5.5- 9.5)	Chloride (limit 180 mg/l)	Cyanide (limit 0 mg/l)	Sulphides (limit 0 mg/l)	Temp (limit 23)	Faecal Coli (limit 0)	Discharge (m3) (limit 61000/270 000* m3)
North Sewage Works	Jul-00	322	3	4.8	18	0.001	1.05	6.88	73.17	8.04	77	0.052	0	19	0	
North Sewage Works	Aug-00	611	3	1.8	13.6	0	3.18	19.8	92.31	7.93	91.11	0.104	0	20	0	
North Sewage Works	Sep-00	654	3	3.2	9.8	0.618	4.19	37.6	59.42	7.69	70	0	0	21	0	
North Sewage Works	Oct-00	309	13	4.3	8.6	0.098	5.65	72.2	44.87	8.5	65.59	0.156	0	22	0	
North Sewage Works	Nov-00	775	11	3.2	9	0.26	4.66	23.81	52.09	8.2	97	0.156	0	21	0	
North Sewage Works	Dec-00	633	4	2.6	10	0.028	3.4	100.44	59.46	7.85	95	0.416	0	25	0	
North Sewage Works	Jan-01	735	1	2	9.8	0.02	0.618	7.44	80.13	7.4	113	0.1	0	21	0	
North Sewage Works	Feb-01	572	9	7.2	16	0.162	2.89	17.48	9.95	7.67	103.9	0.364	0	20	0	
North Sewage Works	Mar-01	755	0	3.2	10.4	0.05	1.2	19.68	49.4	7.11	98	0	0	21	0	
North Sewage Works	Jul-01	632	4	1.4	8.8	0.44	3.05	14.13	9.65	7.22	84.73	0.676	0	9	0	
North Sewage Works	Aug-01	955	5	1.8	8.4	0.149	2.38	27.49	62.73	7	131	0.052	0	16	0	
North Sewage Works	Sep-01	779	8	34	10	0.07	1.2	26.4	75.12	7.3	115	0.156	0	19	0	
North Sewage Works	Oct-01	660	34	1.2	5.2	0.372	4.95	37.4	63.93	7.53	81.54	0	0	20	0	265710
North Sewage Works	Nov-01	990	9	1.4	5.4	0.15	0.769	79.37	89.07	7.23	99	0	0	21	0	273620
North Sewage Works	Dec-01	827	4	2.8	6	0.45	3.24	52.64	59.37	7.43	128	0	0	20	0	244550
North Sewage Works	Jan-02	593	12	1	8	0.009	1.087	39.13	74.25	7.81	88	0	0	18	0	262720

North Sewage Works	Feb-02	431	2	0.4	4.6	0.12	2.71	39.29	78.78	8	67	0	0	21	0	34410
North Sewage Works	Mar-02	363	10	1.6	2	0.163	1.782	34.29	79.864	8.27	54	0.156	0	20	0	54990
North Sewage Works	Apr-02	380	5	1.8	2.4	0.079	3.019	35.02	42.79	8.85	61.7	<0.5	0	18	0	47890
North Sewage Works	May-02	314	1	1.4	4.2	0	3.56	3.17	53.29	7.23	44.32	<0.5	0	19	0	33550
North Sewage Works	Jun-02	333	3	2.2	7.6	0.17	0.286	15.34	49.68	7.23	98.56	<0.5	0	15	0	76750
North Sewage Works	Jul-02	284	5	3.6	5.8	0.305	3.579	39.68	46.23	7.23	98.56	<0.5	0	21	0	40120
Sewage work	Date	TDS (limit 840 mg/l)	SS (limit 15 mg/l)	free & saline NH3 (limit 5 mg/l)	Nitrate (limit 10 mg/l)	Nitrite (limit 0.2 mg/l)	O2 absorbed (limit 3.6)	COD (limit 50 mg/l)	Dissolved O2 (limit 69.16)	Ph (range 5.5- 9.5)	Chloride (limit 180 mg/l)	Cyanide (limit 0 mg/l)	Sulphides (limit 0 mg/l)	Temp (limit 23)	Faecal Coli (limit 0)	Discharge (m3) (limit 61000/270 000* m3)
North Sewage Works	Aug-02	301	14	3.2	2.4	0.273	4.211	31.01	59.07	7.45	98.56	<0.5	0	19	0	45985
North Sewage Works	Sep-02	307	15	2.6	4.6	0.284	2.9	29.96	58.26	7.45	40.77	<0.5	0	20	0	50418
North Sewage Works	Oct-02	301	14	3.2	2.4	0.273	4.211	31.01	59.07	7.45	98.56	<0.5	0	19	0	40133
North Sewage Works	Nov-02	182	19	14	6.8	0.13	4.04	14.23	67.96	7.53	32.97	<0.5	0	20	0	42500
North Sewage Works	Dec-02	223	17	0.2	5.8	0.065	4.596	21.54	83.14	8.22	27.3	<0.5	0	20	0	23284
North Sewage Works	Jan-03	294	37	0	1.6	0.444	5.392	61.73	55.86	7.48	34.39	<0.5	0	19		260198
North Sewage Works	Feb-03	265	3	0.8	5	0.05	3.061	43.1	49.41	7.22	40.77	<0.5	0	19		25737
North Sewage Works	Mar-03	274	29	2.4	4.4	0.504	7.327	34.19	39.18	7.39	37.23	<0.5	0	19		22748
North Sewage Works	Apr-03	274	29	2.4	4.4	0.504	7.327	34.19	39.18	7.39	37.23	<0.5	0	19	0	24143
North Sewage Works	May-03	259	2	2	4.8	3.875	1.978	40.36	37.35	7.21	32.62	<0.5	0	18	0	48633

North Sewage Works	Jun-03	259	7	3.8	2.6	0.424	9.592	33.33	53.08	8.01	32.97	<0.5	0	19	0	88987
North Sewage Works	Jul-03	246	9	1.4	6.8	0.458	4.19	42.74	46.31	7.2	41.48	<0.5	0	21	0	57326
North Sewage Works	Aug-03	314	12	0.6	7.6	0.466	3.922	35.87	49.36	7.57	39.35	<0.5	0	18	0	48496
North Sewage Works	Sep-03	221	10	0.2	4	0.031	2.418	33.98	33.02	8.01	38.29	<0.5	0	24	0	53207
North Sewage Works	Oct-03	285	5	0	6.8	0	4.41	35.14	48.85	7.06	44.21	<0.5	0	18		44475
North Sewage Works	Nov-03	311	17	0	5.2	0.182	5.463	34.7	70.63	7.67	37.23	<0.5	0	19		94630
North Sewage Works	Dec-03	305	17	0.2	6.2	0.119	5.146	37.04	78.13	7.05	50.7	<0.5	0	21		64104
* 61000 m3 to the environment or 270 000 m3 for both re-use and discharge into the environment																
Sewage work	Date	TDS (mg/l) (limit 625 mg/l)	SS (Mg/l) (limit 5 mg/l)	free & saline ammonia (mg/l) (limit 2 mg/l)	Nitrate (N) (mg/l) (limit 10 mg/l)	Nitrite (N) (mg/l) (limit 0.2 mg/l)	oxygen absorbed (limit 3.6)	COD (mg/l) (limit 115 mg/l)	Dissolved O2 (limit 69.16)	pH (range 5.5-8.5)	Chloride (Cl) (mg/l) (limit 155 mg/l)	Cyanide (mg/l) (limit 0 mg/l)	Sulphides (mg/l) (limit 0 mg/l)	Temp (limit 25°C)	Faecal Coli (1000/m3)	Discharge (m3) (limit 62281 m3)
South Sewage Works	Jul-00		3	6	22.2	0.014	0.42	13.76	33.91	7.56	79	0.052	0	17	0	
South Sewage Works	Aug-00	267	7	7.2	7.8	0.86	5.34	27.45	55.65	7.42	85.44	0	0	20	0	
South Sewage Works	Sep-00	357	10	5.4	8.6	0.302	4.59	37.6	70.1	7.7	65	0	0	21	0	
South Sewage Works	Oct-00	594	3	5	10.2	0	2.61	32.49	56.3	8.1	81.54	0.156	0		0	77745
South Sewage Works	Nov-00	325	16	0	6.4	0.108	7.15	55.56	73.31	8.43	58	0.104	0		0	86673
South Sewage Works	Dec-00	295	8	6.6	8.2	0.166	5.1	70.68	71.12	7.77	126	0.156	0		0	82954
South Sewage Works	Jan-01	735	1	2	9.8	0.02	0.618	7.44	80.13	7.4	113	0.1	0	21	0	75860
South Sewage Works	Feb-01	572	9	7.2	16	0.162	2.89	17.48	9.95	7.67	103.9	0.364	0	20	0	72565

South Sewage Works	Mar-01	755	0	3.2	10.4	0.05	1.2	19.68	49.4	7.11	98	0	0	21	0	74162
South Sewage Works	Jul-01	662	6	1.4	8.8	0.23	2.84	7.07	10.14	7.23	84.38	0.104	0	7	0	98874
South Sewage Works	Aug-01	764	7	3.8	9.4	1.076	4.46	44.67	55.487	7.57	115	0.052	0	17	0	80740
South Sewage Works	Sep-01	619	3	1	9.8	0.145	2	44.2	75.28	7.26	97	0	0	20	0	69767
South Sewage Works	Oct-01	292	6	0.4	6.2	0.363	2.376	61.2	107.537	7.88	47.51	0	0	20	0	56925
South Sewage Works	Nov-01	754	2	0.6	7.8	0.349	2.5	115.08	54.22	7.55	136	0.208	0	19	0	60323
South Sewage Works	Dec-01	644	0	2.2	9.2	0.22	2.67	71.44	84.04	7.62	128	0	0	18	0	55361
South Sewage Works	Jan-02	613	2	1	11	0.009	1.087	21.74	90.34	7.87	128	0	0	20	0	37257
South Sewage Works	Feb-02	625	5	0.6	8.6	0.004	2.29	46.43	88.14	7.9	144	0	0	21	0	37288
South Sewage Works	Mar-02	364	5	2.2	4.2	0.942	4.46	41.09	56.64	8.28	61	<.05	0	18	0	37316
South Sewage Works	Apr-02	396	4	1	7.2	0.0888	3.396	47.76	39.014	8.86	63.5	0.156	0	18	7	21480
South Sewage Works	May-02	342	1	1.2	7.2	0	3.07	12.7	86.9	7.11	70.2	0.051	0	17	25	28845
South Sewage Works	Jun-02	253	9	4.8	2.2	0.226	1.143	67.48	55.5	7.32	136.85	0.052	0	13	0	54710
South Sewage Works	Jul-02	196	6	1.4	5.4	0.351	3.789	19.84	64.18	7.51	136.85	<.5	0	18		27699
Sewage work	Date	TDS (mg/l) (limit 625 mg/l)	SS (Mg/l) (limit 5 mg/l)	free & saline ammonia (mg/l) (limit 2 mg/l)	Nitrate (N) (mg/l) (limit 10 mg/l)	Nitrite (N) (mg/l) (limit 0.2 mg/l)	oxygen absorbed (limit 3.6)	COD (mg/l) (limit 115 mg/l)	Dissolved O2 (limit 69.16)	pH (range 5.5-9)	Chloride (Cl) (mg/l) (limit 155 mg/l)	Cyanide (mg/l) (limit 0 mg/l)	Sulphides (mg/l) (limit 0 mg/l)	Temp (limit 25°C)	Faecal Coli (1/m3)	Discharge (m3) (limit 62281)
South Sewage Works	Aug-02	303	9	0	4.8	0.305	4.167	38.76	52.65	7.43	136.85	<.5	0	19		29199
South Sewage Works	Sep-02	329	19	3	5	0.398	4	37.45	64.2	7.63	46.09	<.5	0	19		39212

South Sewage Works	Oct-02	303	9	0	4.8	0.0305	4.167	38.76	52.65	7.43	136.85	<.5	0	19	28421
South Sewage Works	Nov-02	175	4	0.2	10.8	0.036	3.838	35.59	71.25	7.41	26.59	<.5	0	18	28843
South Sewage Works	Dec-02	189	7	0	2.4	0.032	2.959	36.92	102.78	8.15	24.82	<.5	0	20	28673
South Sewage Works	Jan-03	294	27	0	2	0.722	6.569	41.15	52.09	7.49	30.14	<.5	0	21	29380
South Sewage Works	Feb-03	195	1	0	3.6	0.025	3.717	64.66	54.57	7.23	24.11	<.5	0	21	18168
South Sewage Works	Mar-03	221	9	1.2	0	0	1.458	36.29	38.02	7.14	34.39	<.5	0	18	21598
South Sewage Works	Apr-03	221	9	1.2	0	0	1.458	36.29	38.02	7.14	34.39	<.5	0	18	0 25693
South Sewage Works	May-03	242	1	0.4	1.4	3.958	1.535	44.84	47.27	7.39	34.03	<.5	0	16	0 18320
South Sewage Works	Jun-03	262	3	3.2	2.8	0.437	9.184	38.1	58.62	8.03	39	<.5	0	17	0 36967
South Sewage Works	Jul-03	255	14	0.4	3.8	0.472	3.81	34.19	56.24	7.68	56.72	<.5	0	19	36750
South Sewage Works	Aug-03	398	3	0	4	0.386	3.137	44.84	55.09	7.56	43.61	<.5	0	17	31133
South Sewage Works	Sep-03	204	7	0.2	3.6	0.059	2.857	38.83	37.11	8.05	45.73	<.5	0	22	25218
South Sewage Works	Oct-03	254	0	0	5.6	0	3.03	22.36	94.72	7.28	39	<.5	0	19	16552
South Sewage Works	Nov-03	231	0	0	4.4	0.169	3.33	31.55	81.36	7.36	33.33	<.5	0	17	16801
South Sewage Works	Dec-03	227	2	0	3.4	0.151	1.845	32.92	79.46	7.37	39	<.5	0	21	10414