

UPPER LACHLAN SHIRE COUNCIL
CROOKWELL WASTE WATER TREATMENT WORKS
EPA LICENCE NO. 1938

Point 1

Discharge pipe from the maturation pond to the wetland that flows via a waterway to the Crookwell River

DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN (AMMONIA) mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL	CHLOROPHYLL A
SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED									
Limit			20	6.5-8.5	30		15	10	1	600	
19/07/2012	19/07/2012	25/07/2012	6	8.7	12	<0.1	6.4	<1	0.25	540	240
21/08/2012	22/08/2012	27/08/2012	8	9.4	18	<0.1	5.3	<1	0.27	4	360
26/09/2012	27/09/2012	3/10/2012	10	9.8	18	<0.1	3.4	<1	0.24	18	0.91
31/10/2012	1/11/2012	6/11/2012	3	8.4	6	0.6	3.4	<1	0.32	36	23
28/11/2012	29/11/2012	13/12/2012	<2	7.7	11	<0.1	0.76	<1	0.34	260	0.8
18/12/2012	19/12/2012	24/12/2012	8	7.9	16	1.9	4.3	<1	1.1	27	54
30/01/2013	31/01/2013	5/02/2013	6	9.6	19	<0.1	2.5	<1	0.75	120	180
27/02/2013	28/02/2013	7/03/2013	4	8.9	16	0.2	2.4	<1	0.39	60	190
3/04/2013	4/04/2013	10/04/2013	14	8.8	25	0.3	5.4	<1	0.32	300	270
1/05/2013	2/05/2013	7/05/2013	15	9.8	29	0.5	5.1	<1	0.37	18	490
29/05/2013	30/05/2013	4/06/2013	27	9	33	1.7	7.9	<1	0.45	76	860
26/06/2013	27/06/2013	2/07/2013	4	7.8	13	1.3	9.5	<1	0.24	2900	140
24/07/2013	25/07/2013	30/07/2013	4	8.2	18	0.5	5.8	<1	0.19	900	170
4/09/2013	5/09/2013	11/09/2013	7	8.6	10	1.1	4.0	<1	0.19	280	120
25/09/2013	26/09/2013	2/10/2013	22	9.5	18	0.3	5.6	<1	0.35	2	340
23/10/2013	24/10/2013	31/10/2013	15	10.1	49	0.9	6.6	<1	0.58	<2	760
27/11/2013	28/11/2013	9/12/2013	14	10.2	28	<0.1	3.6	<1	0.3	4	211
18/12/2013	19/12/2013	30/12/2013	10	9.77	28	<0.1	1.99	<1	0.72	14	151
30/01/2014	30/01/2014	10/02/2014	11	9.06	13	0.1	2.41	<1	0.47	20	32.8
26/02/2014	27/02/2014	7/03/2014	12	9.22	21	0.2	3.46	<1	0.42	14	222
27/03/2014	27/03/2014	5/04/2014	5	9.45	25	0.7	4.15	<1	0.37	490	159
30/04/2014	1/05/2014	12/05/2014	8	8.67	34	2.7	8.16	<1	0.47	1500	392
29/05/2014	29/05/2014	10/06/2014	19	8.46	31	6.4	11.4	<1	0.39	12400	409
26/06/2014	26/06/2014	3/07/2014	7	8.06	15	6.2	10.2	<1	0.24	6300	192
7/08/2014	7/08/2014	15/08/2014	10	9.27	21	0.8	4.53	<1	0.27	80	338
27/08/2014	28/08/2014	5/09/2014	6	8.53	14	0.2	4.67	<1	0.22	880	158
24/09/2014	25/09/2014	1/10/2014	10	9.47	14	1.3	4.28	<1	0.22	300	274
4/11/2014	5/11/2014	11/11/2014	7	8.48	10	4.8	7.1	<1	0.62	80	98.4
26/11/2014	27/11/2014	4/12/2014	8	9.92	34	<0.1	2.16	<1	0.53	80	397
17/12/2014	18/12/2014	31/12/2014	10	9.65	40	<0.1	2.22	<1	0.9	52	254
29/01/2015	29/01/2015	5/02/2015	11	8.2	28	0.6	4.16	<1	0.53	333	147
4/03/2015	5/03/2015	17/03/2015	9	9.52	45	0.1	3.87	<1	0.63	230	245
31/03/2015	1/04/2015	13/04/2015	8	9.61	38	<0.1	3.68	<1	0.35	172	218
22/04/2015	23/04/2015	2/05/2015	6	8.52	26	0.3	4.35	<1	0.3	6000	220
19/05/2015	20/05/2015	29/05/2015	20	8.09	17	3.4	8.73	<1	0.23	190	169
23/06/2015	24/06/2015	2/07/2015	11	7.67	14	5.1	9.11	<1	0.18	360	136
28/07/2015	29/07/2015	6/08/2015	2	7.63	4	1.5	5.64	<1	0.1	260	32.1
1/09/2015	2/09/2015	8/09/2015	<2	7.53	4	0.6	5.9	<1	0.09	260	36.5
29/09/2015	30/09/2015	8/10/2015	17	8.33	16	0.3	4.5	<1	0.24	<2	162
27/10/2015	28/10/2015	6/11/2015	12	9.74	38	<0.1	2.98	<1	0.37	26	177
18/11/2015	18/11/2015	26/11/2015	8	9.95	18	<0.1	2.21	<1	0.17	4	154
15/12/2015	16/12/2015	23/12/2015	6	10	22	<0.1	1.98	<1	0.49	<2	178
26/01/2016	27/01/2016	5/02/2016	<2	9.36	22	0.8	3.98	<1	0.63	90	171
23/02/2016	24/02/2016	3/03/2016	5	9.09	22	0.4	3.17	<1	0.55	540	113
22/03/2016	23/03/2016	2/04/2016	8	9.3	26	0.6	4.87	<1	0.3	460	205
26/04/2016	27/04/2016	5/05/2016	6	8	26	5.9	11.1	<1	0.3	3100	174
31/05/2016	1/06/2016	15/06/2016	12	8.5	29	3	9.78	<1	0.24	496	173
21/06/2016	22/06/2016	6/07/2016	2	7.67	6	0.5	6.21	<1	0.18	1400	29.6
26/07/2016	27/07/2016	2/08/2016	<2	7.55	2	0.1	7.93	<1	0.14	240	6.8
30/08/2016	31/08/2016	10/09/2016	7	8.17	11	<0.1	5.58	<1	0.28	740	64.7
4/10/2016	5/10/2016	12/10/2016	<2	7.68	9	0.4	8.42	<1	0.18	1270	36.6
25/10/2016	26/10/2016	3/11/2016	4	8.6	2	1.7	6.61	<1	0.13	30	2.48
30/11/2016	30/11/2016	6/12/2016	7	7.7	7	8.6	11	<1	0.47	16	26.6
20/12/2016	21/12/2016	3/01/2017	10	8.7	23	0.7	4.56	<1	0.45	6	164
17/01/2017	18/01/2017	24/01/2017	18	9.02	52	0.8	7.64	<1	0.88	270	266
7/02/2017	8/02/2017	8/02/2017	8	9.11	30	0.6	3.71	<1	0.64	4260	150
21/03/2017	22/03/2017	22/03/2017	7	9.2	35	0.2	4.68	<1	0.58	1160	222
25/04/2017	26/04/2017	4/05/2017	11	8.7	25	0.7	5.13	<1	0.32	1660	188
23/05/2017	24/05/2017	30/05/2017	19	8.28	53	10.6	18.3	<1	0.44	2120	853
27/06/2017	28/06/2017	4/07/2017	8	7.92	11	18.8	22.2	1	0.17	860	114
25/07/2017	25/07/2017	31/07/2017	15	7.86	15	19.9	25.1	<1	0.18	80	200
22/08/2017	23/08/2017	29/08/2017	9	7.88	10	5.8	10.3	<1	0.12	128	107
26/09/2017	27/09/2017	5/10/2017	7	8.44	21	7	11	<1	0.23	122	286
31/10/2017	1/11/2017	9/11/2017	9	8.34	29	3.2	8.17	<1	0.33	760	537
28/11/2017	29/11/2017	5/12/2017	6	7.94	15	0.2	3.41	<1	0.18	1880	114
19/12/2017	19/12/2017	2/01/2018	5	9.65	17	<0.1	2.32	<1	0.42	<2	198
6/02/2018	7/02/2018	14/02/2018	6	8.89	14	<0.1	2.29	<1	0.26	320	153
27/02/2018	28/02/2018	9/03/2018	6	8.81	26	0.6	4.91	<1	0.32	400	270
27/03/2018	28/03/2018	6/04/2018	7	9.69	28	<0.1	3.57	<1	0.27	16	291

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23/04/2018	24/04/2018	4/05/2018	3	8.9	10	<0.1	2.85	<1	0.11	570	78.1
22/05/2018	23/05/2018	4/06/2018	5	7.7	11	0.2	6.53	<1	0.12	1100	122
26/06/2018	27/06/2018	2/07/2018	2	7.62	5	0.4	6.14	<1	0.07	<2	33.8
31/07/2018	1/08/2018	10/08/2018	6	8.15	10	0.3	5	<1	0.12	48	160
28/08/2018	29/08/2018	7/09/2018	6	8.83	10	<0.1	4.86	<1	0.12	2	168
18/09/2018	19/09/2018	27/09/2018	8	9.27	13	0.1	4.11	<1	0.18	<2	168
22/10/2018	23/10/2018	7/11/2018	7	8.07	12	2.2	4.6	<1	0.3	36000	70.6
27/11/2018	28/11/2018	11/12/2018	5	9.95	17	<0.1	3.03	<1	0.2	2	232
18/12/2018	19/12/2018	2/01/2019	8	8.8	12	<0.1	7.03	<1	0.15	234	182
29/01/2019	30/01/2019	7/02/2019	6	9.49	21	<0.1	2.35	<1	0.64	242	122
26/02/2019	27/02/2019	8/03/2019	3	9.47	12	<0.1	2.45	<1	0.34	44	59.8
26/03/2019	27/03/2019	9/04/2019	4	9.49	32	<0.1	5.33	<1	0.42	78	374
29/04/2019	30/04/2019	13/05/2019	3	9.05	21	<0.1	5.38	<1	0.25	144	192
27/05/2019	28/05/2019	13/06/2019	3	9.39	26	<0.1	5.1	<1	0.22	14	294
25/06/2019	26/06/2019	8/07/2019	10	8.94	14	<0.1	5.45	<1	0.19	90	256
23/07/2019	24/07/2019	2/08/2019	10	9.53	12	<0.1	5.37	<1	0.2	<2	316
26/08/2019	27/08/2019	9/09/2019	12	9.97	17	<0.1	3.62	<1	0.18	<2	298
30/09/2019	1/10/2019	15/10/2019	9	10.3	32	<0.1	3.71	<1	0.4	23000	213
29/10/2019	30/10/2019	8/11/2019	55	7.66	46	<0.1	4.08	<1	0.42	<2	1140
25/11/2019	26/11/2019	9/12/2019	12	9.63	10	0.6	5.4	<1	0.37	50	94.3
30/12/2019	31/12/2019	17/01/2020	13	8.97	19	0.1	3.43	<1	0.47	18	132
28/01/2020	29/01/2020	11/02/2020	22	8.2	42	<1	4.13	<1	0.76	380	80
26/02/2020	27/02/2020	13/03/2020	8	9.06	19	0.3	2.64	<1	0.42	82	103
23/03/2020	24/03/2020	3/04/2020	5	9.41	16	2.6	6.76	<1	0.2	58	134
21/04/2020	22/04/2020	4/05/2020	8	8.87	42	0.4	7.25	<1	0.43	70	353
19/05/2020	20/05/2020	28/05/2020	10	8.13	18	5.1	8.01	<1	0.16	187	324
23/06/2020	24/06/2020	30/06/2020	8	8.07	15	4.8	9.12	<1	0.14	440	322
20/07/2020	21/07/2020	28/07/2020	16	7.99	18	5.1	10.7	<1	0.26	160	348
18/08/2020	19/08/2020	27/08/2020	3	7.49	4	0.6	7.36	<1	0.38	296	21.2
22/09/2020	23/09/2020	30/09/2020	10	8.93	18	0.1	2.97	<1	0.3	94	286
19/10/2020	20/10/2020	26/10/2020	12	9.36	18	>0.1	2.73	<1	0.3	14	288
16/11/2020	17/11/2020	24/11/2020	14	10.2	19	<0.1	3.25	<1	0.31	<2	278
15/12/2020	16/12/2020	29/12/2020	7	7.84	14	0.6	2.81	<1	0.4	98	126
19/01/2021	20/01/2021	28/01/2021	10	8.94	18	0.1	2.61	<1	0.78	20	83.9
15/02/2021	16/02/2021	23/02/2021	5	7.07	15	0.9	3.73	<1	0.43	77	76
16/03/2021	17/03/2021	30/03/2021	9	7.31	26	0.1	3.7	<1	0.32	696	232
19/04/2021	20/04/2021	29/04/2021	9	9.1	17	<0.1	3.47	<1	0.18	2	204
18/05/2021	19/05/2021	27/05/2021	5	9.02	21	<0.1	3.91	<1	0.28	24	217
21/06/2021	22/06/2021	28/06/2021	2	8.74	18	<0.1	4.62	<1	0.35	4140	296
20/07/2021	21/07/2021	28/07/2021	<2	7.77	6	<0.1	7.99	<1	0.2	17000	42.4
18/08/2021	19/08/2021	25/08/2021	<2	7.93	4	0.2	6.63	<1	0.23	46	16.7
20/09/2021	21/09/2021	29/09/2021	3	7.51	9	<0.1	4.28	<1	0.23	196	81.7
18/10/2021	19/10/2021	28/10/2021	4	7.85	10	<0.1	4.29	<1	0.23	44	82.4
23/11/2021	24/11/2021	3/12/2021	3	7.65	9	<0.1	5.33	<1	0.22	264	77.9
20/12/2021	21/12/2021	31/12/2021	4	7.85	3	1.2	4.83	<1	0.33	5300	12.6
17/01/2022	18/01/2022	25/01/2022	4	9.66	3	0.1	2.73	<1	0.2	84	13.2
14/02/2022	15/02/2022	23/02/2022	11	9.97	36	<0.1	3.8	<1	0.63	1480	345
16/03/2022	17/03/2022	28/03/2022	9	9.17	19	<0.1	2.39	<1	0.35	340	286
20/04/2022	21/04/2022	3/05/2022	10	8.85	23	0.1	4.94	<1	0.8	1040	385
18/05/2022	19/05/2022	31/05/2022	7	8.92	18	<0.1	3.07	<1	0.11	1180	144
21/06/2022	22/06/2022	30/06/2022	6	9.09	17	<0.1	3.92	<1	0.21	280	205
19/07/2022	20/07/2022	27/07/2022	4	8.1	3	<0.1	2.79	<1	0.74	800	73.2
16/08/2022	17/08/2022	25/08/2022	2	7.68	5	0.2	4.63	<1	0.1	720	29.1
14/09/2022	15/09/2022	29/09/2022	5	9.01	12	<0.1	3.26	<1	0.14	94	86.7
14/10/2022	15/10/2022	29/10/2022	2	7.53	5	<0.1	4.51	<1	0.22	620	34.7
23/11/2022	24/11/2022	1/12/2022	<2	7.45	3	0.3	4.58	<1	0.12	60	11
14/12/2022	15/12/2022	23/12/2022	4	9.38	6	<0.1	3.18	<1	0.54	72	22.1
18/01/2023	19/01/2023	27/01/2023	10	7.63	27	0.9	3.28	<1	0.52	640	159
15/02/2023	16/02/2023	24/02/2023	8	8.66	18	0.3	2.74	<1	0.6	4	166
22/03/2023	23/03/2023	29/03/2023	8	9.8	32	<0.1	3.18	<1	0.8	4	317
19/04/2023	20/04/2023	2/05/2023	9	9.34	32	0.5	3.86	<1	0.4	340	347
17/05/2023	18/05/2023	7/06/2023	9	8.05	28	<0.1	2.94	<1	0.18	1060	197
21/06/2023	22/06/2023	30/06/2023	8	9.57	34	<0.1	3.66	<1	0.24	220	410
31/07/2023	1/08/2023	11/08/2023	8	9.15	23	<0.1	3.19	<1	0.18	<2	247
28/08/2023	29/08/2-23	7/09/2023	4	9.18	23	<1	2.83	<1	0.2	52	188
25/09/2023	26/09/2023	6/10/2023	5	8.07	16	0.4	3.34	<1	0.41	540	44.1

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Point 2
Catch Pond

DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN (AMMONIA) mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL	CHLOROPHYLL A
SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED									
19/07/2012	19/07/2012	25/07/2012	<2	7	8	0.3	6.1	0	0.47	7000	5.7
21/08/2012	22/08/2012	27/08/2012	<2	7.1	6	0.5	5.2	0	0.3	3200	14
26/09/2012	27/09/2012	3/10/2012	4	7.3	3	1.8	6.3	0	0.22	9700	9.8
31/10/2012	1/11/2012	6/11/2012	3	8	6	1.2	4	0	0.24	15000	63
28/11/2012	29/11/2012	13/12/2012	5	7.5	8	1.9	4.9	0	1.3	44000	16
18/12/2012	19/12/2012	24/12/2012	3	7.2	7	0.9	4.5	0	0.26	6800	31
30/01/2013	31/01/2013	5/02/2013	2	6.8	8	1.1	4.5	0	0.35	8600	10
27/02/2013	28/02/2013	7/03/2013	<2	6.9	9	1.2	3.9	0	0.38	2200	110
3/04/2013	4/04/2013	10/04/2013	<2	7	6	2.5	5.6	0	0.23	7100	5.6
1/05/2013	2/05/2013	7/05/2013	<2	7.1	3	3.1	6.9	0	0.33	900	20
29/05/2013	30/05/2013	4/06/2013	<2	7.3	9	7.7	10	0	0.31	12000	63
26/06/2013	27/06/2013	2/07/2013	<2	6.9	9	0.5	11	0	0.31	9000	4.9
24/07/2013	25/07/2013	30/07/2013	<2	7.1	4	1.7	6.5	0	0.28	6700	6.9
4/09/2013	5/09/2013	11/09/2013	<2	7.7	5.0	3.6	5.7	0	0.3	5600	26.0
25/09/2013	26/09/2013	2/10/2013	<2	7.1	8	3.6	6.1	0	0.46	4500	62
23/10/2013	24/10/2013	31/10/2013	3	7.2	8	4.8	7.3	0	0.39	1400	77
27/11/2013	28/11/2013	9/12/2013	4	7.21	10	2.8	6.14	0	0.43	1660	84
18/12/2013	19/12/2013	30/12/2013	4	7.29	12	1.5	4.22	0	0.53	4400	40.4
30/01/2014	30/01/2014	10/02/2014	5	7.29	13	1.1	3.9	0	0.36	27000	30.4
26/02/2014	27/02/2014	7/03/2014	2	7.29	3	1.2	3.41	0	0.32	25000	23.3
27/03/2014	27/03/2014	5/04/2014	<2	7.26	7	6.9	8.48	0	0.4	22000	23.7
30/04/2014	1/05/2014	12/05/2014	7	7.46	18	12.9	15.3	0	0.94	9800	135
29/05/2014	29/05/2014	10/06/2014	8	7.34	25	10.1	12.7	0	0.73	72000	83.9
26/06/2014	26/06/2014	3/07/2014	<2	7.09	4	6.8	9.55	0	0.25	139000	11.6
7/08/2014	7/08/2014	15/08/2014	4	7.41	8	3.9	5.75	0	0.35	55000	11.3
27/08/2014	28/08/2014	5/09/2014	2	7.09	3	1.6	5.29	0	0.23	8200	1.9
24/09/2014	25/09/2014	1/10/2014	2	7.3	6	6.4	8.03	0	0.31	10800	19.3
4/11/2014	5/11/2014	11/11/2014	3	7.51	12	8.9	11.2	0	0.54	4960	76.1
26/11/2014	27/11/2014	4/12/2014	4	7.22	20	2.0	4.35	0	0.68	2140	112
17/12/2014	18/12/2014	31/12/2014	<2	7.73	18	1.7	3.59	0	0.59	10200	11.4
29/01/2015	29/01/2015	5/02/2015	2	7.32	9	1.2	3.89	0	0.46	170	20
4/03/2015	5/03/2015	17/03/2015	<2		9	1	3.02	0	0.34	4400	31
31/03/2015	1/04/2015	13/04/2015	4	7.02	11	3.3	5.77	0	0.27	3060	55.2
22/04/2015	23/04/2015	2/05/2015	3	7.26	26	3.4	6.35	0	0.64	19300	27.4
19/05/2015	20/05/2015	29/05/2015	3	7.45	10	10.2	12.8	0	0.26	2300	44.9
23/06/2015	24/06/2015	2/07/2015	<2	7.32	6	6.6	7.78	0	0.18	22700	11.9
28/07/2015	29/07/2015	6/08/2015	<2	7.1	2	1.4	4.81	0	0.13	1500	3.16
1/09/2015	2/09/2015	8/09/2015	<2	7.01	5	1.3	5.65	0	0.16	4020	1.5
29/09/2015	30/09/2015	8/10/2015	<2	7.91	5	3.7	5.26	0	0.23	800	6.05
27/10/2015	28/10/2015	6/11/2015	2	7.49	8	1.7	3.73	0	0.22	4800	17.7
18/11/2015	18/11/2015	26/11/2015	2	7.29	11	1	3.38	0	0.3	1840	23.6
15/12/2015	16/12/2015	23/12/2015	4	7.26	10	3.5	5.88	0	0.3	2600	52
26/01/2016	27/01/2016	5/02/2016	3	7.51	11	5.7	8.59	0	0.4	8600	53.3
23/02/2016	24/02/2016	3/03/2016	3	7.46	8	2.5	4.52	0	0.36	10800	21.4
22/03/2016	23/03/2016	2/04/2016	2	7.6	7	8	10	0	0.35	4500	29.6
26/04/2016	27/04/2016	5/05/2016	4	7.83	9	18.8	21.1	0	0.41	9400	11.9
31/05/2016	1/06/2016	15/06/2016	2	7.11	6	4.1	7.13	0	0.3	5920	7.7
21/06/2016	22/06/2016	6/07/2016	<2	7.15	6	0.5	9.78	0	0.34	21200	2.98
26/07/2016	27/07/2016	2/08/2016	<2	6.97	12	0.6	9.95	0	0.52	22400	1.92
30/08/2016	31/08/2016	10/09/2016	3	7.33	7	1.2	6.02	0	0.34	1760	1.96
4/10/2016	5/10/2016	12/10/2016	3	7.51	11	1.5	10.4	0	0.44	21900	6.3
25/10/2016	26/10/2016	3/11/2016	4	7.12	10	3.7	8.15	0	0.36	1300	5.88
30/11/2016	30/11/2016	6/12/2016	7	7.45	30	12.3	14.9	0	1.32	740	65.7
20/12/2016	21/12/2016	3/01/2017	4	7.48	21	3.5	5.8	0	0.74	640	29.4
17/01/2017	18/01/2017	24/01/2017	2	7.37	19	7.7	10.5	0	0.76	420	35.8
7/02/2017	8/02/2017	8/02/2017	3	7.05	9	5.8	9.32	0	0.36	27000	12.5
21/03/2017	22/03/2017	22/03/2017	2	7.34	10	1.7	5.17	0	0.24	37000	2.25
25/04/2017	26/04/2017	4/05/2017	4	7.45	10	5.6	9.68	0	0.35	146000	9.94
23/05/2017	24/05/2017	30/05/2017	8	7.62	13	24	26.1	0	0.48	89000	22.1
27/06/2017	28/06/2017	4/07/2017	5	7.56	5	27.5	29.6	0	0.33	6200	9.62
25/07/2017	25/07/2017	31/07/2017	<2	7.82	3	24.4	26.9	0	0.15	1280	17.6
22/08/2017	23/08/2017	29/08/2017	4	7.66	6	8	10.1	0	0.14	480	23.7
26/09/2017	27/09/2017	5/10/2017	3	7.62	12	9.8	13	0	0.27	5200	83
31/10/2017	1/11/2017	9/11/2017	6	7.78	11	8.3	12.1	0	0.23	4200	79.7

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28/11/2017	29/11/2017	5/12/2017	3	7.42	6	1.3	4.76	0	0.18	540	28
19/12/2017	19/12/2017	2/01/2018	4	7.54	5	0.1	3.8	0	0.14	2600	57.6
6/02/2018	7/02/2018	14/02/2018	6	7.77	13	0.3	4.66	0	0.16	5300	142
27/02/2018	28/02/2018	9/03/2018	4	7.43	6	2.9	9.61	0	0.42	28000	12.3
27/03/2018	28/03/2018	6/04/2018	<2	7.36	3	0.4	5.45	0	0.09	2500	16.6
23/04/2018	24/04/2018	4/05/2018	<2	7	<2	0.6	6.3	0	0.08	2500	6.23
22/05/2018	23/05/2018	4/06/2018	<2	6.93	4	0.7	7.72	0	0.13	6100	30.9
26/06/2018	27/06/2018	2/07/2018	<2	7.08	4	0.6	5.91	0	0.11	928	8.19
31/07/2018	1/08/2018	10/08/2018	2	7.36	5	1.9	5.98	0	0.17	2220	15.4
28/08/2018	29/08/2018	7/09/2018	<2	7.44	6	0.5	4.62	0	0.16	860	15.4
18/09/2018	19/09/2018	27/09/2018	5	7.37	11	0.2	6.79	0	0.1	1300	102
22/10/2018	23/10/2018	7/11/2018	20	7.51	22	13.3	23.4	0	2.11	1000000	55
27/11/2018	28/11/2018	11/12/2018	2	7.36	6	0.9	5.64	0	0.23	120	41.6
18/12/2018	19/12/2018	2/01/2019	2	7.31	8	0.5	7.56	0	0.19	1130	7.3
29/01/2019	30/01/2019	7/02/2019	4	7.69	8	0.9	4.89	0	0.23	10000	56.5
26/02/2019	27/02/2019	8/03/2019	4	8.19	19	<0.1	5.52	0	0.35	4800	172
26/03/2019	27/03/2019	9/04/2019	3	7.99	15	0.2	7.67	0	0.18	1700	138
29/04/2019	30/04/2019	13/05/2019	3	7.27	6	0.5	7.93	0	0.21	4800	121
27/05/2019	28/05/2019	13/06/2019	<2	7.57	13	0.4	6.46	0	0.28	2920	112
25/06/2019	26/06/2019	8/07/2019	4	7.36	4	0.9	8.92	0	0.33	640	15.3
23/07/2019	24/07/2019	2/08/2019	2	7.49	3	0.4	5.45	0	0.2	26	16.3
26/08/2019	27/08/2019	9/09/2019	2	7.22	5	0.4	4.47	0	0.28	238	19.2
30/09/2019	1/10/2019	15/10/2019	23	7.12	26	4.4	14.8	0	2.83	<2	61.8
29/10/2019	30/10/2019	8/11/2019	5	7.48	8	<0.1	3.77	0	0.16	3040	96.6
25/11/2019	26/11/2019	9/12/2019	6	8.24	13	2.6	6.08	0	0.42	6000	85.1
30/12/2019	31/12/2019	17/01/2020	15	7.85	31	0.3	3.69	0	0.61	5300	318
28/01/2020	29/01/2020	11/02/2020	20	7.62	28	0.7	3.66	0	0.68	7900	103
26/02/2020	27/02/2020	13/03/2020	10	7.45	15	10.2	10.3	0	0.34	1300	185
23/03/2020	24/03/2020	3/04/2020	10	7.94	14	14.5	18	0	0.3	56000	155
21/04/2020	22/04/2020	4/05/2020	7	7.52	11	7.3	9.6	0	0.34	9700	138
19/05/2020	20/05/2020	28/05/2020	4	7.76	5	13.2	13	0	0.2	2220	20.6
23/06/2020	24/06/2020	30/06/2020	<2	7.69	3	5.7	7.35	0	0.09	4880	14.2
20/07/2020	21/07/2020	28/07/2020	4	7.58	10	12.7	14.7	0	0.27	1760	89.5
18/08/2020	19/08/2020	27/08/2020	4	7.16	7	0.9	7.51	0	0.34	2600	4.32
22/09/2020	23/09/2020	30/09/2020	3	7.18	5	0.8	3.55	0	0.23	4200	34.8
19/10/2020	20/10/2020	26/10/2020	3	7.2	6	1	3.74	0	0.37	800	11
16/11/2020	17/11/2020	24/11/2020	4	7.24	7	0.8	3.71	0	0.36	420	16.6
15/12/2020	16/12/2020	29/12/2020	7	7.79	18	1.4	4.47	0	0.48	1740	122
19/01/2021	20/01/2021	28/01/2021	8	7.47	18	<0.1	4.77	0	0.53	2100	164
15/02/2021	16/02/2021	23/02/2021	5	7.37	10	0.8	5.24	0	0.4	800	77
16/03/2021	17/03/2021	30/03/2021	3	6.48	8	1.2	4.52	0	0.27	13400	26.9
19/04/2021	20/04/2021	29/04/2021	9	6.75	11	0.5	4.77	0	0.26	432	187
18/05/2021	19/05/2021	27/05/2021	3	6.65	7	0.6	5.58	0	0.38	8400	
21/06/2021	22/06/2021	28/06/2021	<2	7.37	5	0.5	4.62	0	0.38	126000	21.7
20/07/2021	21/07/2021	28/07/2021	<2	7.85	7	0.2	9.02	0	0.33	68800	6.67
18/08/2021	19/08/2021	25/08/2021	<2	8.11	5	0.4	6.75	n/a	0.28	39000	12.3
20/09/2021	21/09/2021	29/09/2021	2	7.02	5	0.6	4.83	n/a	0.26	31000	13.3
18/10/2021	19/10/2021	28/10/2021	2	7.36	9	0.6	4.76	n/a	0.38	1990	23.1
23/11/2021	24/11/2021	3/12/2021	<2	7.75	4	0.7	6.92	n/a	0.27	9700	6.69
20/12/2021	21/12/2021	31/12/2021	6	7.63	9	3.4	8.82	n/a	0.6	202000	16.1
17/01/2022	18/01/2022	25/01/2022	<2	7.49	6	0.4	2.95	n/a	0.25	7100	34.9
14/02/2022	15/02/2022	23/02/2022	3	7.85	7	0.8	4.43	n/a	0.44	5400	61.8
16/03/2022	17/03/2022	28/03/2022	<2	7.55	3	0.6	3.32	n/a	0.3	2100	15.8
20/04/2022	21/04/2022	3/05/2022	3	7.45	10	1.6	6.25	n/a	1.6	20000	55.9
18/05/2022	19/05/2022	31/05/2022	2	7.51	4	0.8	3.9	n/a	0.12	1200	17
21/06/2022	22/06/2022	30/06/2022	<2	7.55	4	0.7	4.37	n/a	0.26	13100	12.7
19/07/2022	20/07/2022	27/07/2022	<2	7.62	3	0.8	3.27	n/a	0.85	5600	8.24
16/08/2022	17/08/2022	25/08/2022	<2	7.24	6	0.3	4.79	n/a	0.09	3800	7.57
14/09/2022	15/09/2022	29/09/2022	2	6.99	6	1.1	3.88	n/a	0.2	5800	7.68
14/10/2022	15/10/2022	29/10/2022	2	7.25	6	0.2	3.83	n/a	0.27	1800	11.3

UPPER LACHLAN SHIRE COUNCIL
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23/11/2022	24/11/2022	1/12/2022	<2	6.83	6	0.7	5.21	n/a	0.17	3700	6.18
14/12/2022	15/12/2022	23/12/2022	2	7.35	7	0.5	5.62	n/a	1.04	13400	16.3
18/01/2023	19/01/2023	27/01/2023	4	7.47	7	0.6	3.55	n/a	0.16	6600	45.6
15/02/2023	16/02/2023	24/02/2023	3	7.32	5	0.4	2.62	n/a	0.12	2100	85.5
22/03/2023	23/03/2023	29/03/2023	4	6.92	13	0.9	4.96	n/a	0.19	8500	139
19/04/2023	20/04/2023	1/05/2023	3	7.53	4	0.9	4.29	n/a	0.14	12600	13.9
17/05/2023	18/05/2023	7/06/2023	3	7.66	10	0.6	3.52	n/a	0.17	19100	48.6
21/06/2023	22/06/2023	30/06/2023	3	6.86	7	1	4.17	n/a	0.22	10600	18.2
31/07/2023	1/08/2023	11/08/2023	2	7.33	7	0.8	3.39	n/a	0.25	1690	58.1
28/08/2023	29/08/2023	7/09/2023	<2	7.42	5	0.6	2.93	n/a	0.2	6250	17.2
25/09/2023	26/09/2023	6/10/2023	4	7.42	3	0.7	2.79	n/a	0.12	250	23.9

**UPPER LACHLAN SHIRE COUNCIL
CROOKWELL WASTE WATER TREATMENT WORKS
EPA LICENCE NO. 1938**

Point 3

Upstream of Discharge from Wetlands to Crookwell River

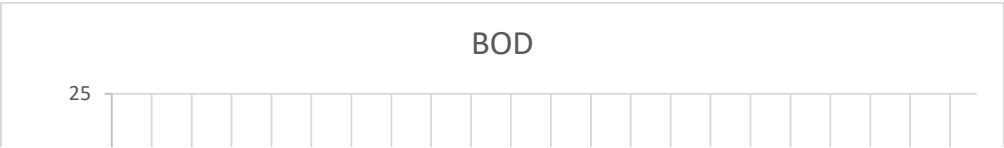
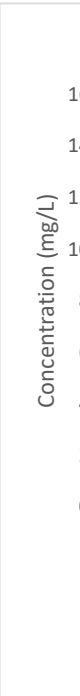
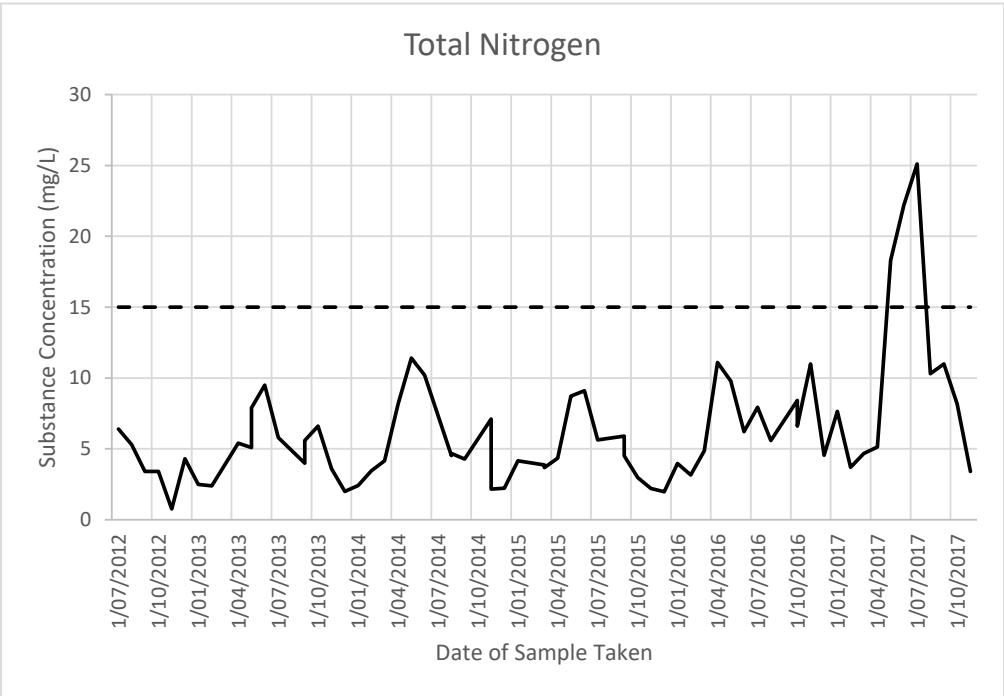
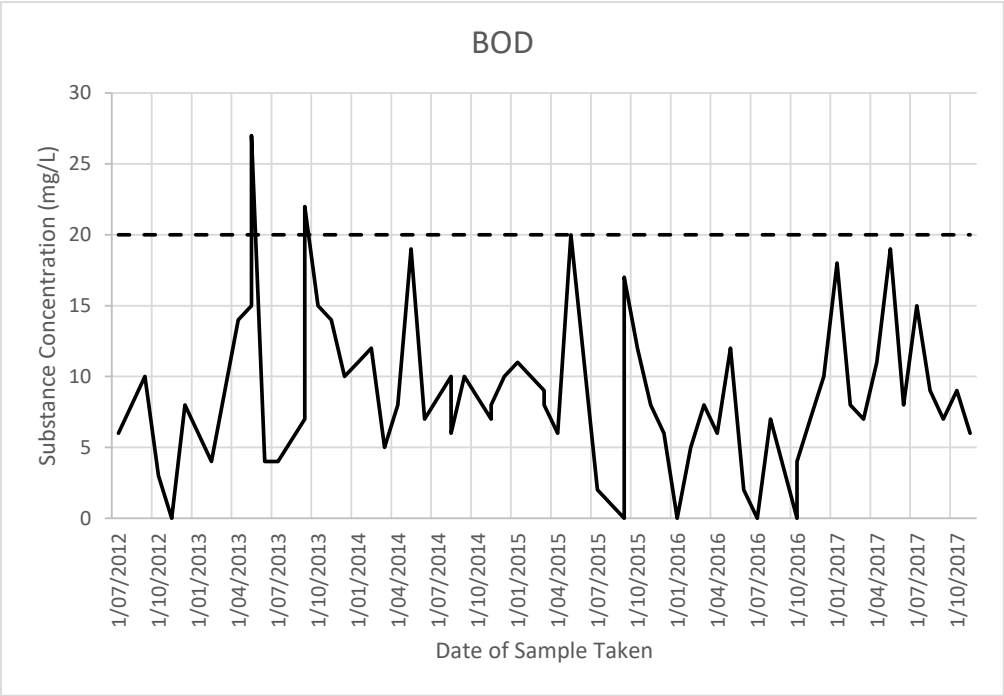
DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN (AMMONIA) mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL
TAKEN	RECEIVED	ISSUED								
21/08/2012	22/08/2012	27/08/2012	<2	7.7	5	<0.1	0.63	<1	0.03	26
31/10/2012	1/11/2012	6/11/2012	<2	7.6	10	<0.1	0.65	<1	0.05	50
27/02/2013	28/02/2013	7/03/2013	<2	7.1	4	<0.1	0.49	<1	0.07	210
1/05/2013	2/05/2013	7/05/2013	<2	7.3	3	<0.1	0.37	<1	0.04	46
4/09/2013	5/09/2013	11/09/2013	<2	7.9	4	<0.1	0.7	<1	0.03	26
27/11/2013	28/11/2013	9/12/2013	2	7.71	5	<0.1	0.58	<1	0.05	106
27/03/2014	27/03/2014	5/04/2014	<2	7.37	5	<0.1	0.49	<1	0.07	236
29/05/2014	29/05/2014	10/06/2014	2	7.04	12	<0.1	0.8	<1	0.1	1540
27/08/2014	28/08/2014	5/09/2014	<2	7.22	7	<0.1	0.95	<1	0.06	210
26/11/2014	27/11/2014	4/12/2014	<2	7.22	5	<0.1	0.63	<1	0.06	132
29/01/2015	29/01/2015	5/02/2015	<2	7.36	4	<0.1	0.53	<1	0.06	138
22/04/2015	23/04/2015	2/05/2015	2	7.23	6	<0.1	0.68	<1	0.1	460
1/09/2015	2/09/2015	8/09/2015	<2	7.49	3	<0.1	0.87	<1	0.04	46
18/11/2015	18/11/2015	26/11/2015	<2	7.76	4	<0.1	0.72	<1	0.05	38
22/03/2016	23/03/2016	2/04/2016	2	7.07	15	<0.1	0.49	<1	0.08	306
31/05/2016	1/06/2016	15/06/2016	<2	7.36	4	<0.1	0.65	<1	0.06	18
30/08/2016	31/08/2016	10/09/2016	<2	7.62	2	<0.1	0.66	<1	0.02	20
25/10/2016	26/10/2016	3/11/2016	<2	7.93	3	<0.1	0.65	<1	0.03	4800
21/03/2017	22/03/2017	22/03/2017	2	7.46	10	<0.1	0.81	<1	0.09	570
23/05/2017	24/05/2017	30/05/2017	<2	7.6	3	<0.1	0.35	<1	0.03	70
25/07/2017	25/07/2017	31/07/2017	<2	7.73	3	<0.1	0.33	<1	0.03	2
22/08/2017	23/08/2017	29/08/2017	<2	7.67	4	<0.1	0.6	0	0.03	0
26/09/2017	27/09/2017	5/10/2017	2	7.85	4	<0.1	0.52	0	0.03	0
31/10/2017	1/11/2017	9/11/2017	3	8	7	<0.1	0.62	<1	0.05	162
28/11/2017	29/11/2017	5/12/2017	<2	7.56	5	<0.1	0.69	0	0.06	0
19/12/2017	19/12/2017	2/01/2018	<2	7.68	4	<0.1	8	0	0.04	0
6/02/2018	7/02/2018	14/02/2018	4	7.38	10	<0.1	0.6	<1	0.07	60
26/06/2018	27/06/2018	2/07/2018	<2	7.46	2	<0.1	1.4	<1	0.06	4
28/08/2018	29/08/2018	7/09/2018	<2	7.67	4	<0.1	0.61	<1	0.03	2
27/11/2018	28/11/2018	11/12/2018	2	7.51	4	<0.1	0.5	<1	0.07	0
26/03/2019	27/03/2019	9/04/2019	2	7.34	7	<0.1	0.6	<1	0.06	196
25/06/2019	26/06/2019	8/07/2019	<2	7.79	2	<0.1	0.53	<1	0.03	26
30/09/2019	1/10/2019	15/10/2019	<2	7.97	2	<0.1	0.64	<1	0.03	4
30/12/2019	No Flow									
23/03/2020	No Flow									
19/05/2020	20/05/2020	28/05/2020	<1	7.72	<2	<0.1	0.66	<1	0.05	4
18/08/2020	19/08/2020	27/08/2020	<2	7.34	4	<0.1	1	<1	0.04	8
16/11/2020	17/11/2020	24/11/2020	<2	8.15	5	<0.1	0.87	<1	0.04	62
15/02/2021	16/02/2021	23/02/2021	<2	7.36	4	<0.1	0.49	<1	0.03	48
18/05/2021	19/05/2021	27/05/2021	<2	8.13	<2	<0.1	0.6	<1	0.22	118
18/08/2021	19/08/2021	25/08/2021	<2	7.98	3	<0.1	0.71	<1	0.02	4
23/11/2021	24/11/2021	3/12/2021	<2	7.62	4	<0.1	0.99	<1	0.05	156
14/02/2022	15/02/2022	23/02/2022	<2	7.99	4	<0.1	0.68	<1	0.04	42
18/05/2022	19/05/2022	31/05/2022	<2	7.84	4	<0.1	0.67	<1	0.03	76
16/08/2022	17/08/2022	25/08/2022	<2	7.82	7	<0.1	0.7	<1	0.03	126
14/10/2022	15/10/2022	29/10/2022	<2	7.77	5	<0.1	0.7	<1	0.03	102
15/02/2023	16/02/2023	24/02/2023	<2	7.53	6	<0.1	0.49	<1	0.04	180
17/05/2023	18/05/2023	7/06/2023	<2	7.71	12	<0.1	0.53	<1	0.03	108
25/09/2023	26/09/2023	6/10/2023	<2	7.73	13	<0.1	0.74	<1	0.04	66

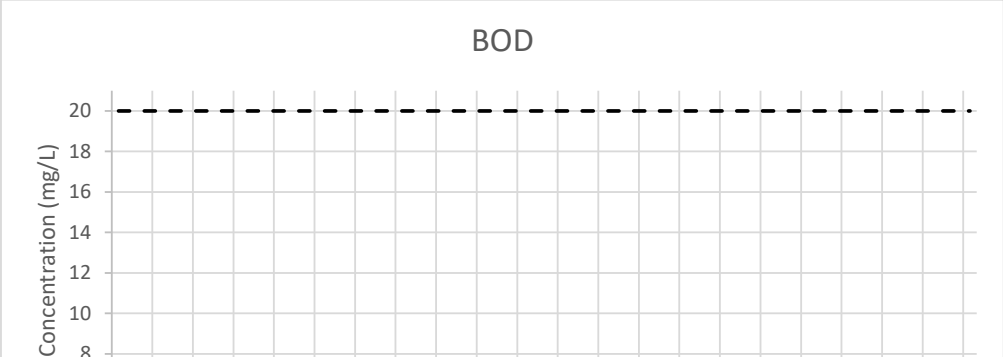
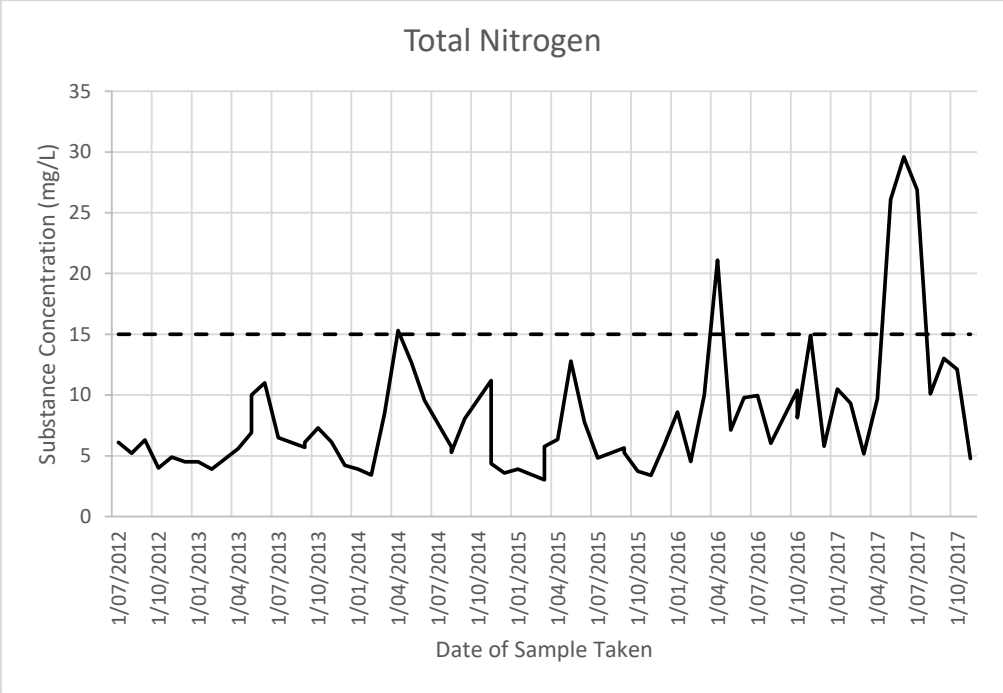
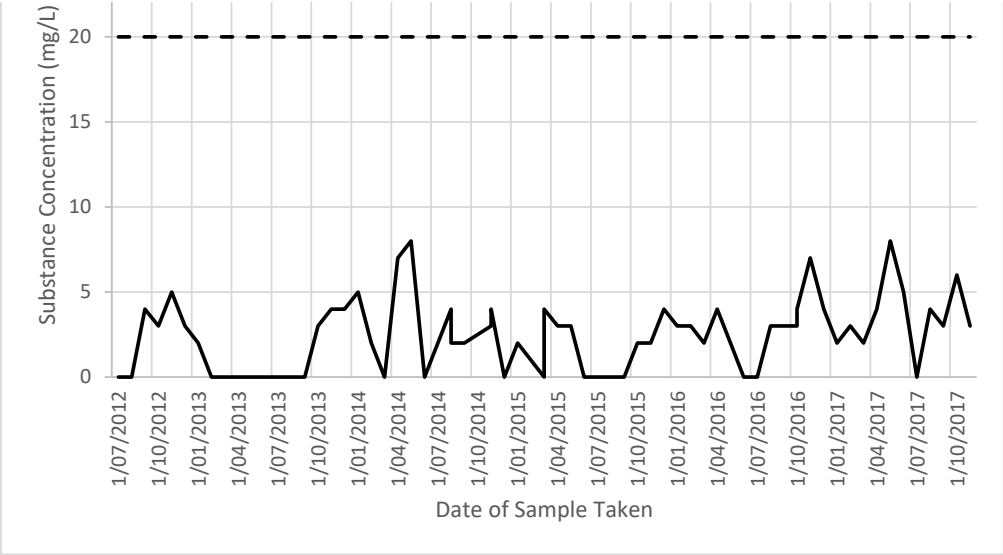
UPPER LACHLAN SHIRE COUNCIL
CROOKWELL WASTE WATER TREATMENT WORKS
EPA LICENCE NO. 1938

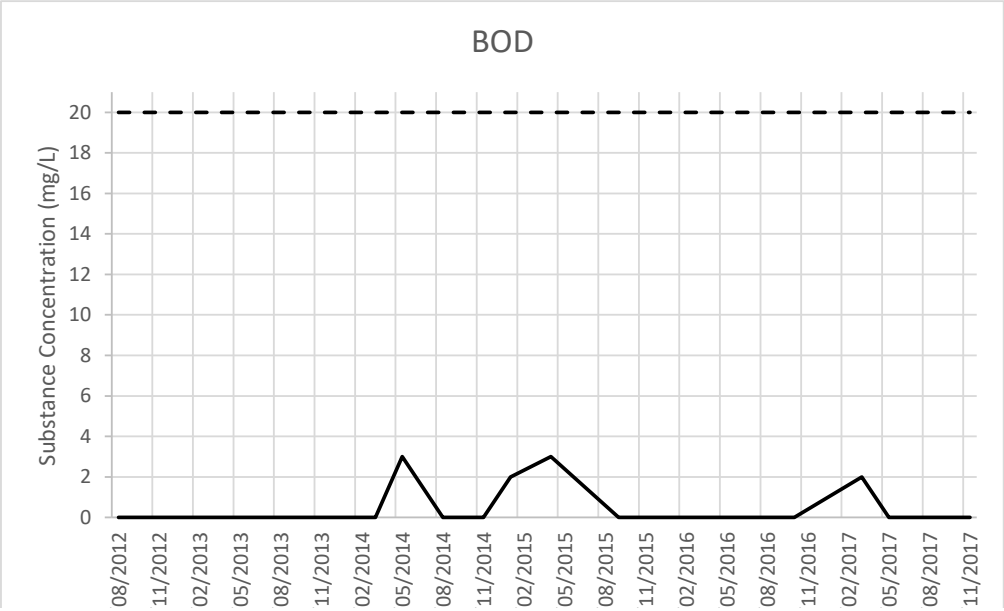
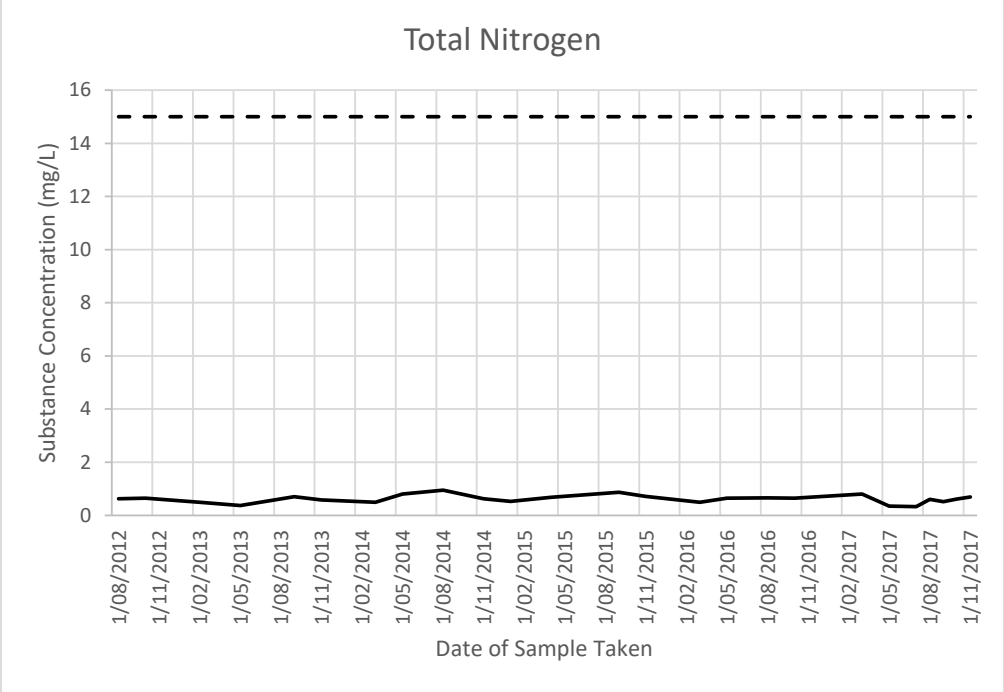
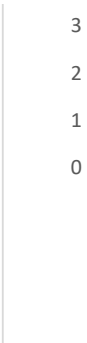
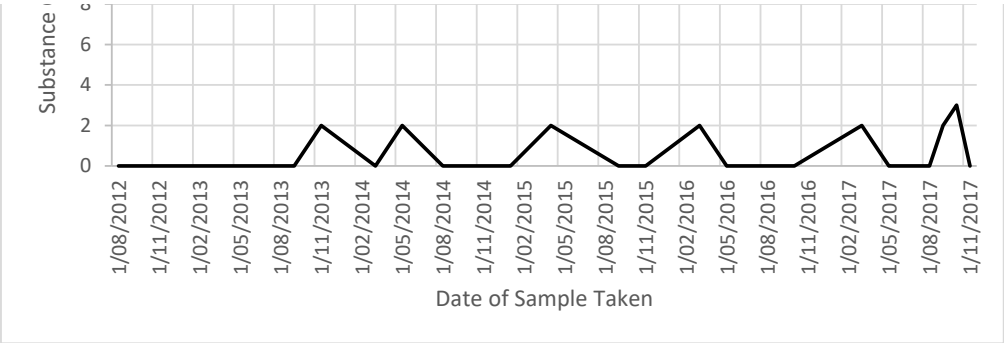
Point 4

Downstream of Discharge from Wetlands to Crookwell River

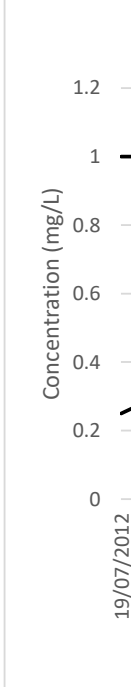
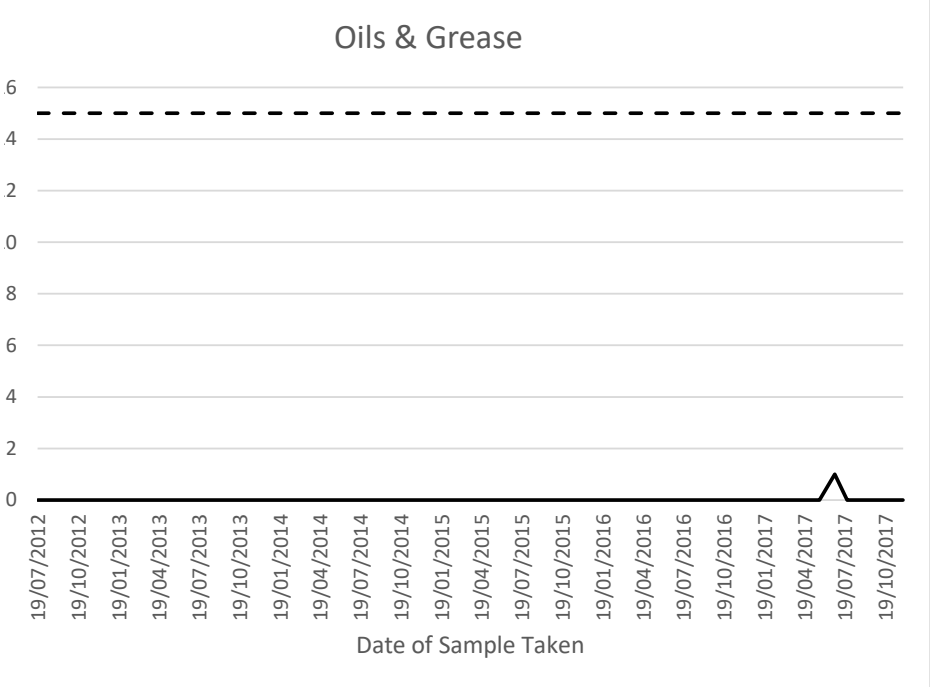
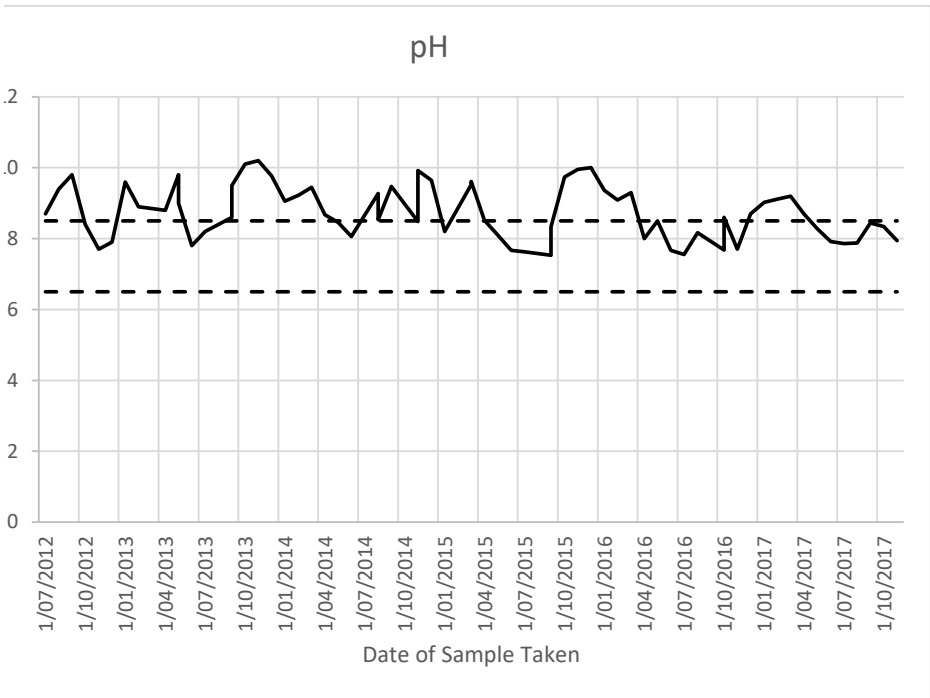
DATE			BOD mg/L	pH	SUSPENDED SOLIDS mg/L	NITROGEN (AMMONIA) mg/L	TOTAL NITROGEN mg/L	OIL & GREASE	TOTAL PHOSPHORUS	FAECAL COLIFORMS CFU/100mL
SAMPLES TAKEN	SAMPLES RECEIVED	RESULTS ISSUED								
21/08/2012	22/08/2012	27/08/2012	<2	7.8	4	<0.1	0.68	<1	0.03	72
31/10/2012	1/11/2012	6/11/2012	<2	7.6	4	<0.1	0.61	<1	0.07	140
27/02/2013	28/02/2013	7/03/2013	<2	7.3	6	<0.1	0.64	<1	0.21	170
1/05/2013	2/05/2013	7/05/2013	<2	7.3	3	<0.1	0.4	<1	0.06	64
4/09/2013	5/09/2013	11/09/2013	<2	7.9	6	<0.1	0.77	<1	0.05	60
27/11/2013	28/11/2013	9/12/2013	<2	7.44	5	<0.1	0.57	<1	0.09	130
27/03/2014	27/03/2014	5/04/2014	<2	7.13	10	<0.1	0.64	<1	0.13	320
29/05/2014	29/05/2014	10/06/2014	3	7.09	11	0.1	1.36	<1	0.12	2180
27/08/2014	28/08/2014	5/09/2014	<2	7.32	7	<0.1	0.99	<1	0.06	54
26/11/2014	27/11/2014	4/12/2014	<2	7.4	5	<0.1	0.65	<1	0.13	314
29/01/2015	29/01/2015	5/02/2015	2	7.37	11	<0.1	0.72	<1	0.22	108
22/04/2015	23/04/2015	2/05/2015	3	7.33	8	<0.1	1.03	<1	0.14	640
1/09/2015	2/09/2015	8/09/2015	<2	7.48	5	<0.1	1.06	<1	0.04	22
18/11/2015	18/11/2015	26/11/2015	<2	7.49	5	<0.1	0.72	<1	0.08	90
22/03/2016	23/03/2016	2/04/2016	<2	7.61	4	<0.1	0.61	<1	0.14	340
31/05/2016	1/06/2016	15/06/2016	<2	7.28	4	<0.1	1.67	3	0.07	50
30/08/2016	31/08/2016	10/09/2016	<2	7.64	2	<0.1	0.76	<1	0.02	30
25/10/2016	26/10/2016	3/11/2016	<2	7.76	4	<0.1	0.9	<1	0.03	1000
21/03/2017	22/03/2017	22/03/2017	2	7.44	11	<0.1	0.85	<1	0.14	1130
23/05/2017	24/05/2017	30/05/2017	<2	7.63	14	<0.1	1.03	<1	0.08	50
25/07/2017	25/07/2017	31/07/2017	<2	7.72	6	1.3	2.93	<1	0.05	80
22/08/2017	23/08/2017	29/08/2017	<2	7.65	4	0.1	1.18	0	0.04	0
26/09/2017	27/09/2017	5/10/2017	<2	7.76	5	<0.1	1.21	0	0.04	0
31/10/2017	1/11/2017	9/11/2017	<2	7.78	5	<0.1	0.75	<1	0.1	40
28/11/2017	29/11/2017	5/12/2017	<2	7.56	5	<0.1	0.7	0	0.1	0
19/12/2017	19/12/2017	2/01/2018	<2	7.68	6	<0.1	0.78	0	0.16	0
6/02/2018	7/02/2018	14/02/2018	<2	7.5	6	<0.1	0.93	<1	0.15	980
26/06/2018	27/06/2018	2/07/2018	<2	7.51	9	<0.1	0.49	<1	0.04	74
28/08/2018	29/08/2018	7/09/2018	<2	7.74	11	<0.1	0.74	<1	0.05	36
27/11/2018	28/11/2018	11/12/2018	<2	7.61	3	<0.1	0.65	<1	0.07	0
26/03/2019	27/03/2019	9/04/2019	8	7.68	5	<0.1	0.67	<1	0.1	76
25/06/2019	26/06/2019	8/07/2019	<2	7.68	4	<0.1	0.8	<1	0.04	110
30/09/2019	1/10/2019	15/10/2019	<2	7.75	6	<0.1	0.57	<1	0.05	38
30/12/2019	No Flow									
23/03/2020	No Flow									
19/05/2020	20/05/2020	28/05/2020	<2	7.76	5	<0.1	0.85	<1	0.05	61
18/08/2020	19/08/2020	27/08/2020	<2	7.47	4	<0.1	1.2	<1	0.04	18
16/11/2020	17/11/2020	24/11/2020	<2	7.66	5	<0.1	0.88	<0.1	0.06	68
15/02/2021	16/02/2021	23/02/2021	<2	7.46	8	<0.1	0.64	<1	0.09	40
18/05/2021	19/05/2021	27/05/2021	<2	7.84	<2	<0.1	0.68	<1	0.04	66
18/08/2021	19/08/2021	25/08/2021	<2	7.91	3	<0.1	0.9	<1	0.03	14
23/11/2021	24/11/2021	3/12/2021	<2	6.47	4	<0.1	1.07	<1	0.05	108
14/02/2022	15/02/2022	23/02/2022	<2	7.64	5	0.1	0.61	<1	0.06	48
18/05/2022	19/05/2022	31/05/2022	<2	7.81	4	<0.1	0.69	<1	0.03	52
16/08/2022	17/08/2022	25/08/2022	<2	7.84	8	<0.1	0.78	<1	0.03	134
14/10/2022	15/10/2022	29/10/2022	<2	7.76	7	<0.1	0.82	<1	0.04	80
15/02/2023	16/02/2023	24/02/2023	<2	7.23	6	<0.1	0.51	<1	0.06	60
17/05/2023	18/05/2023	7/06/2023	<2	7.75	5	<0.1	0.52	<1	0.02	40
25/09/2023	26/09/2023	6/10/2023	<2	7.43	9	<0.1	0.79	<1	0.05	48

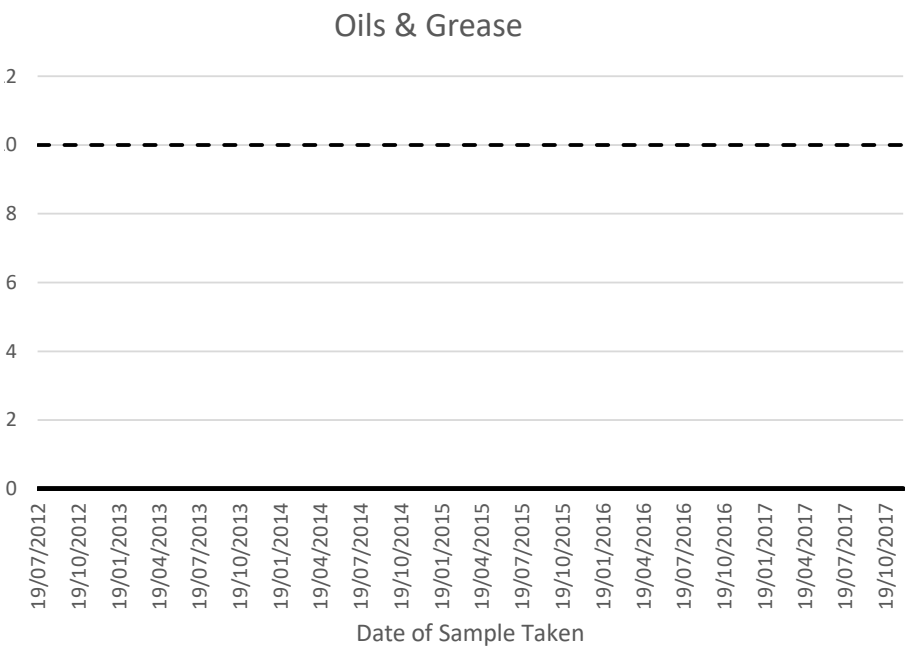
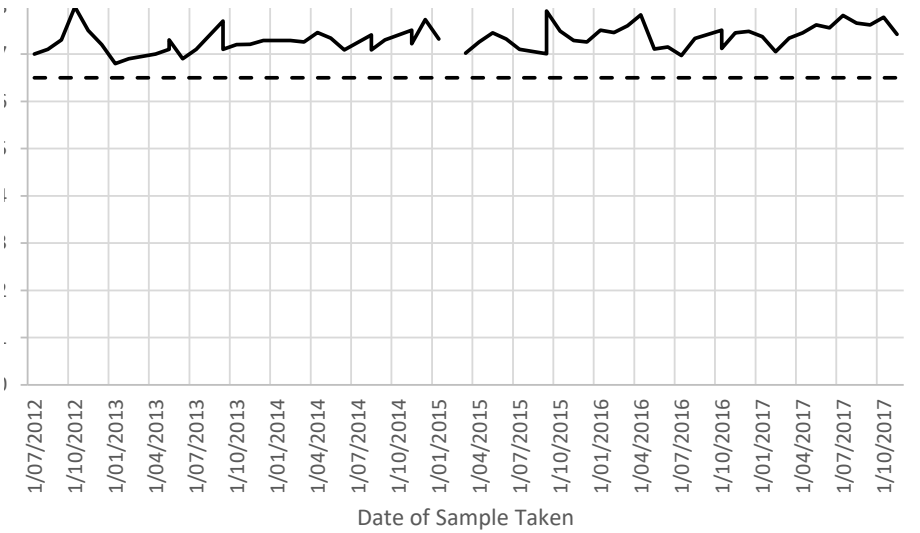




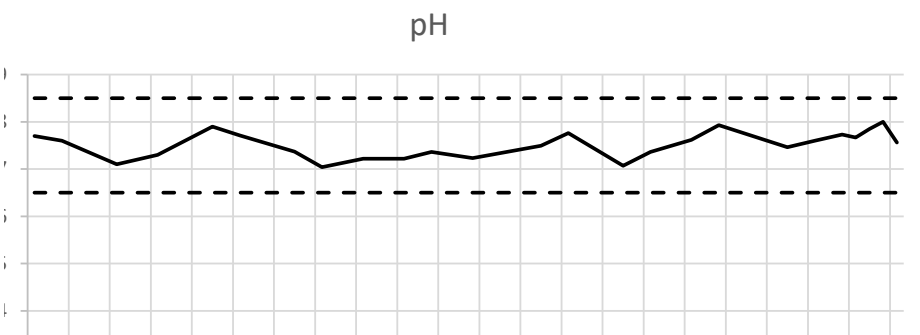


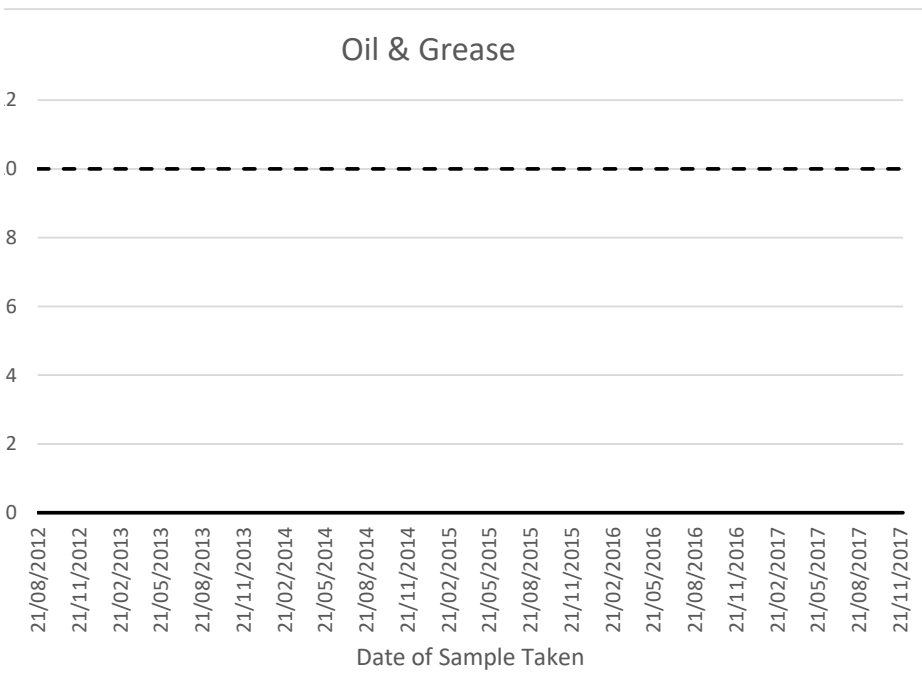
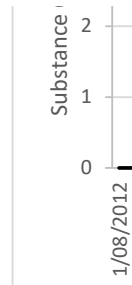
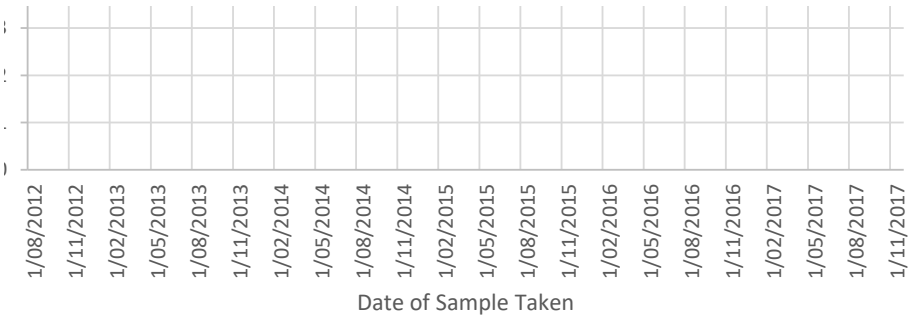
[illegible]



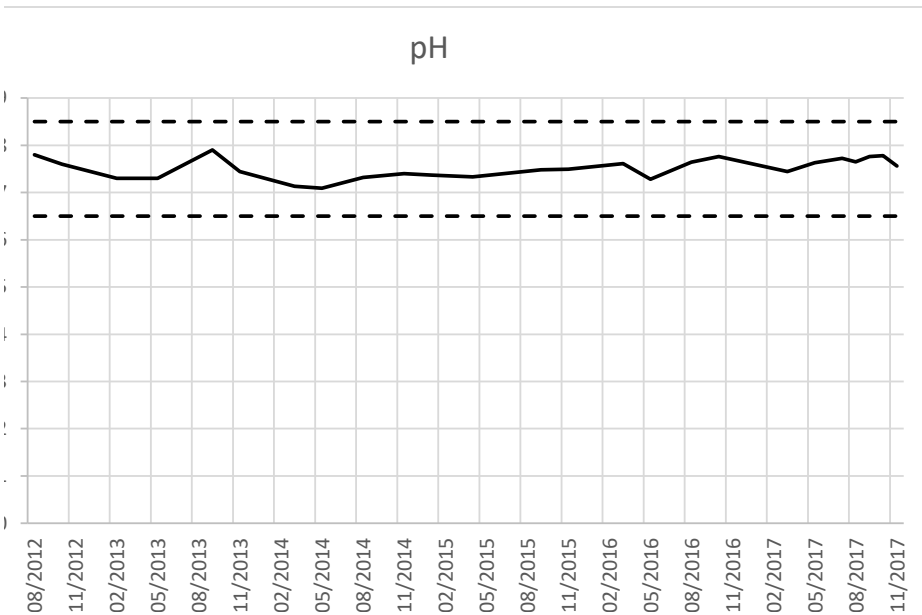


Sample Point 3: Upstream of Discharge from We



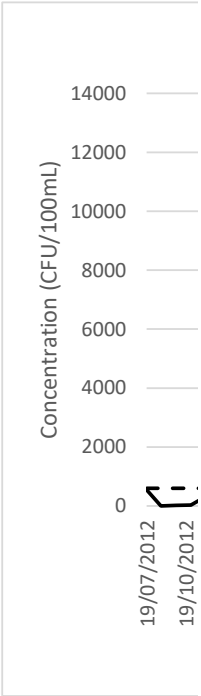
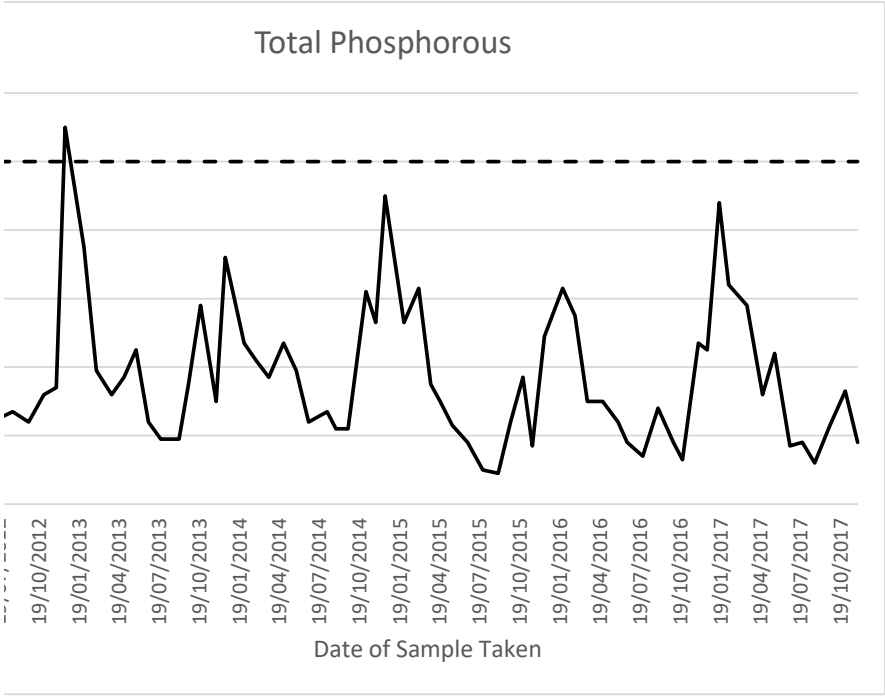
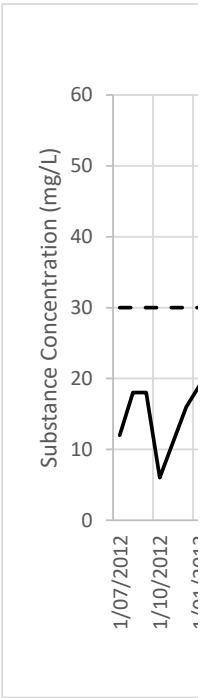
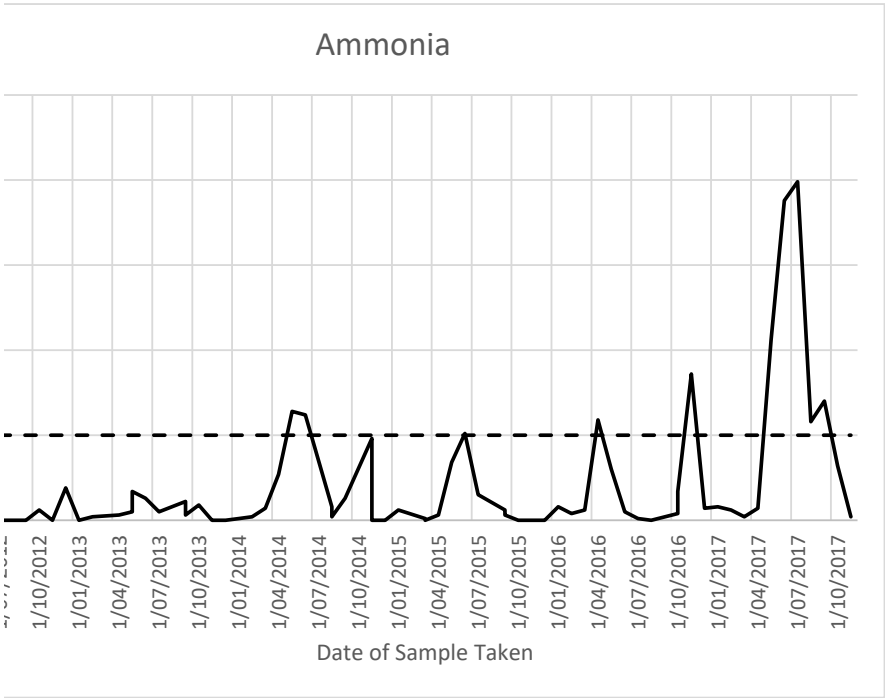


Sample Point 4: Downstream of Discharge from W

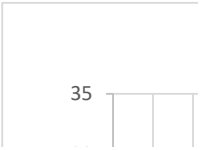
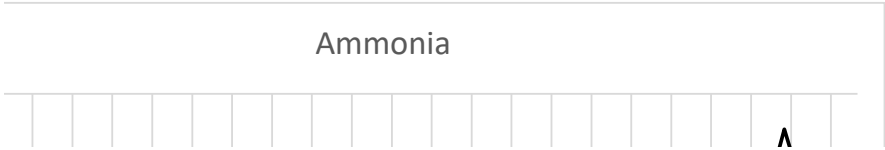


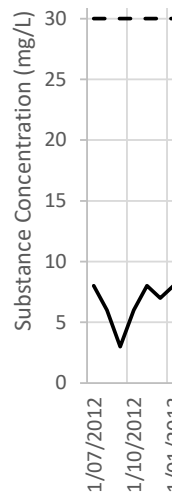
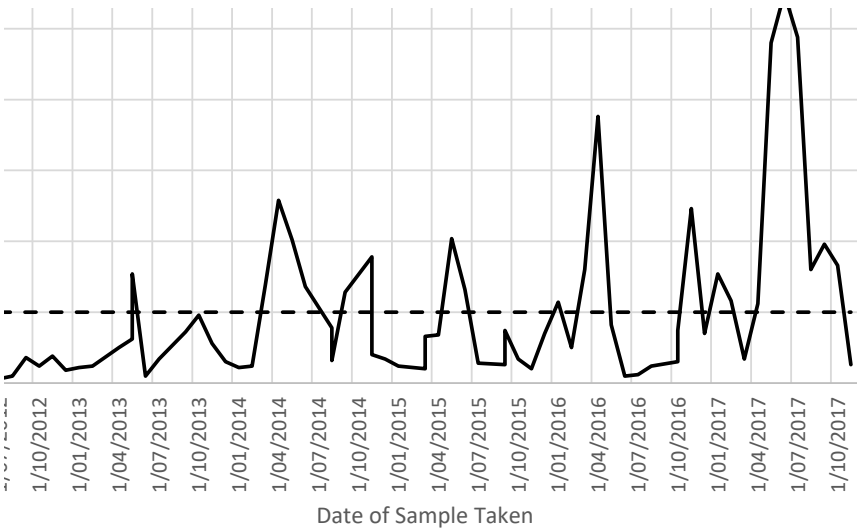
[illegible]

pipe from the maturation pond to the wetland that flows via a waterway to the Crookwell River

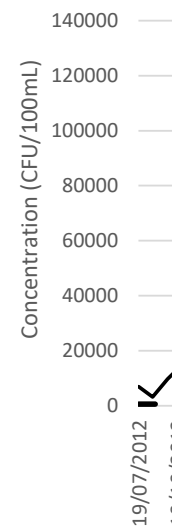
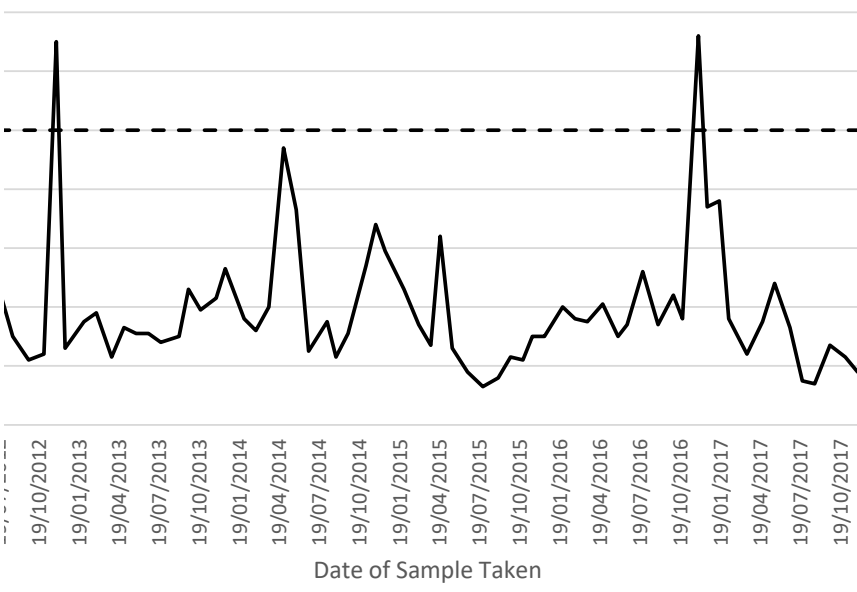


Sample Point 2: Inlet flume



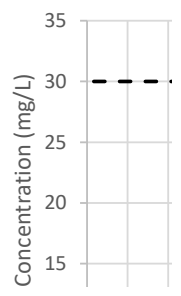


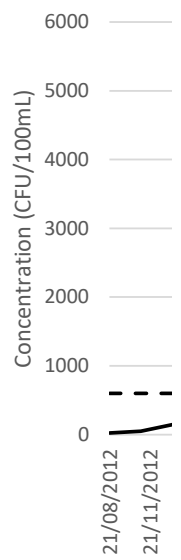
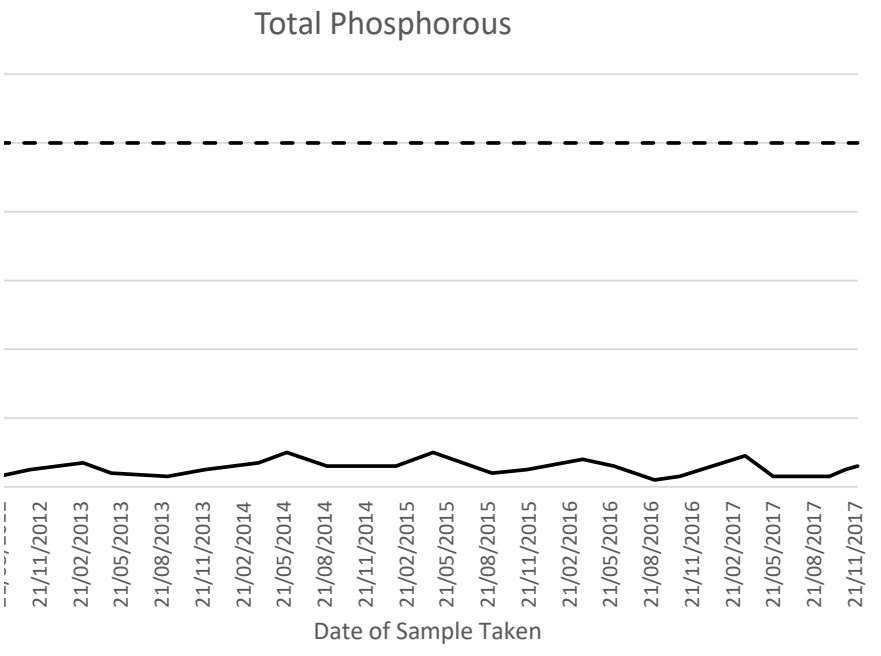
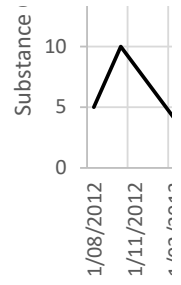
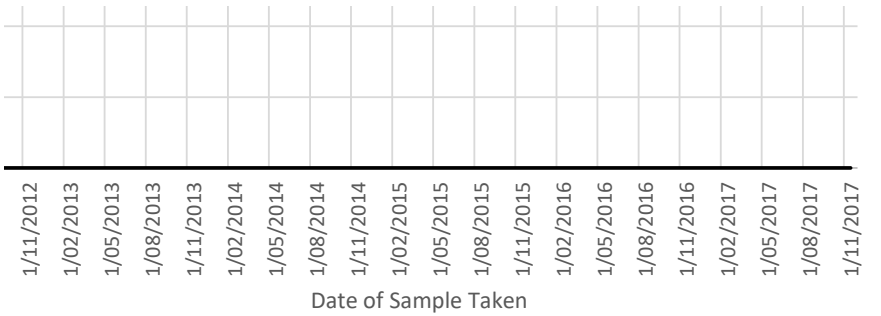
Total Phosphorous



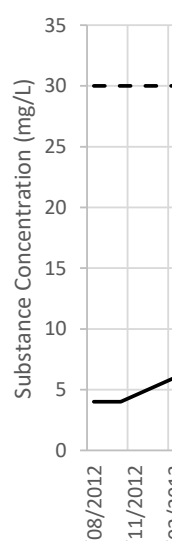
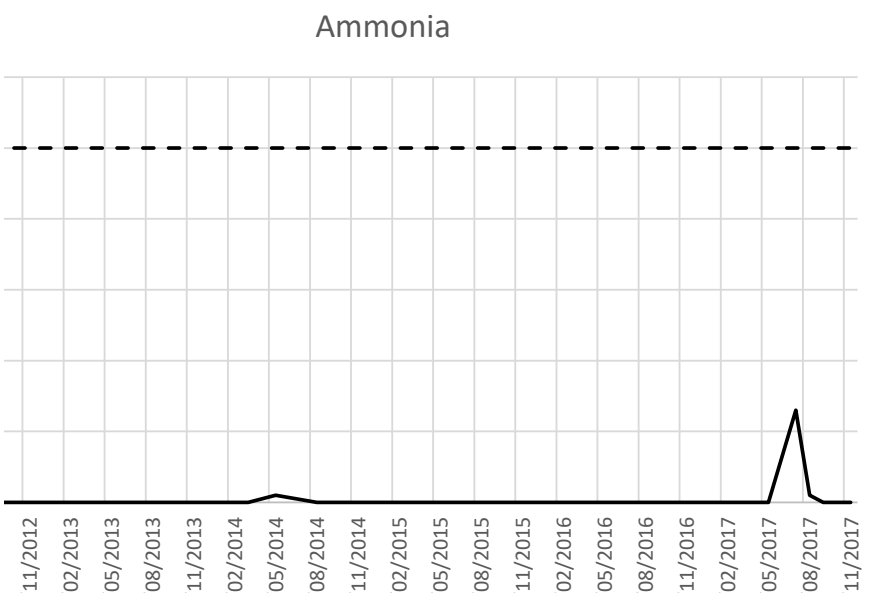
Wetlands to Crookwell River

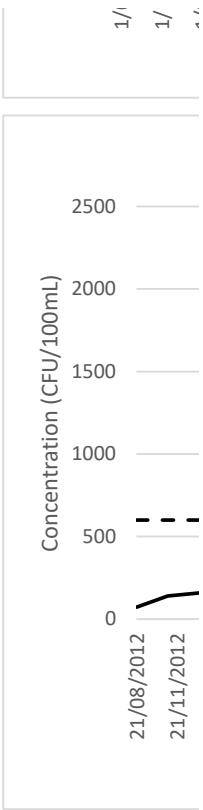
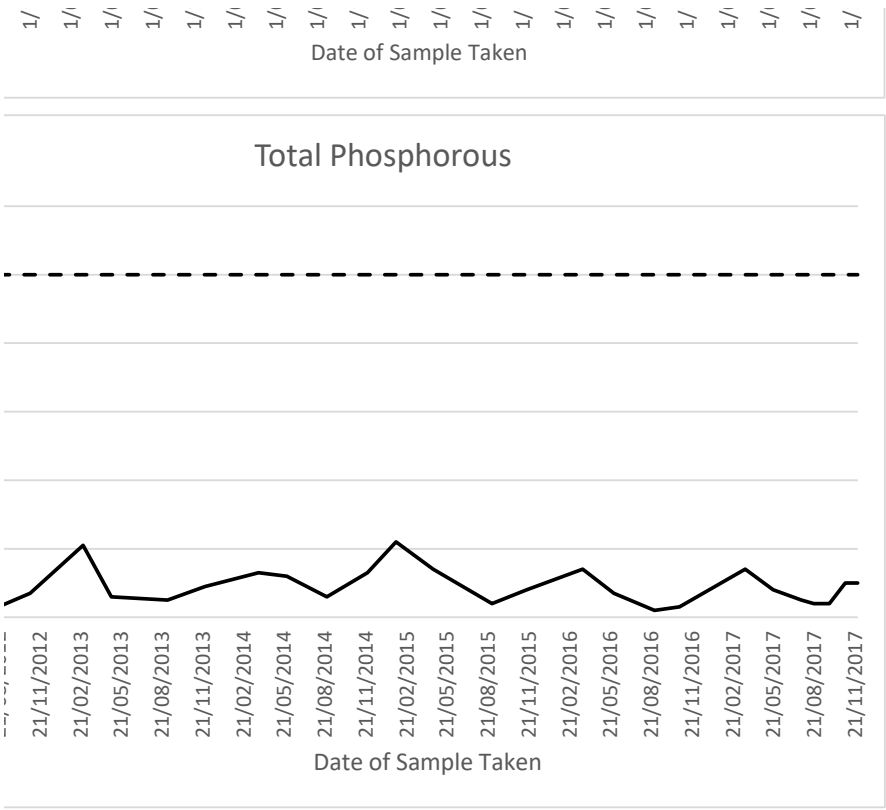
Ammonia





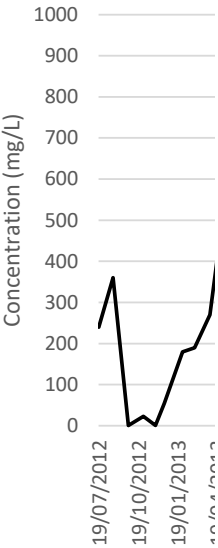
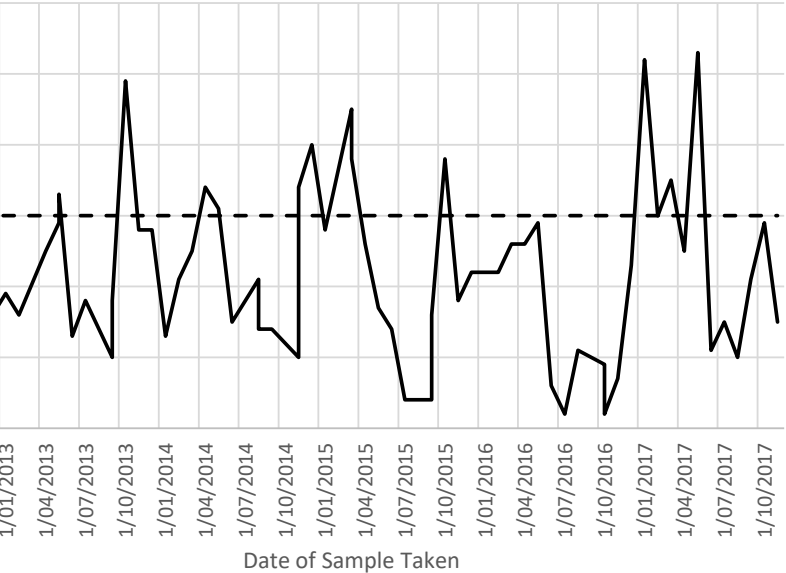
Wetlands to Crookwell River



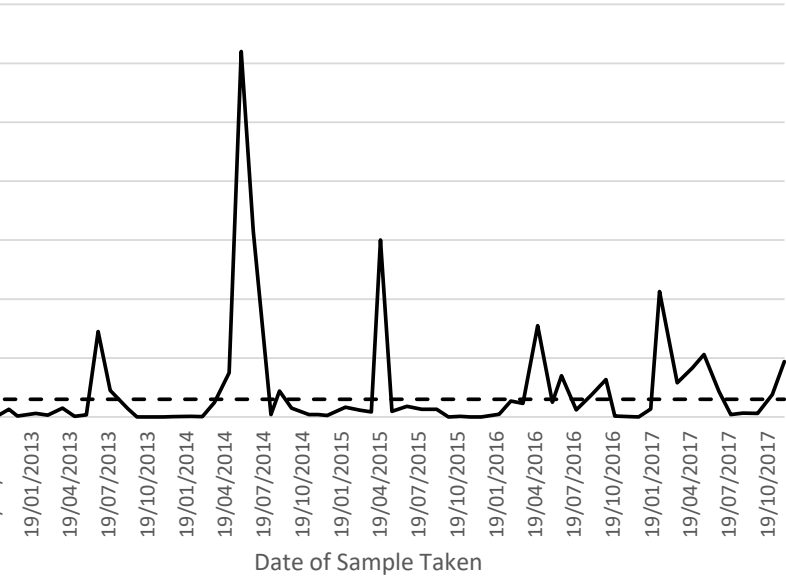




Suspended Solids



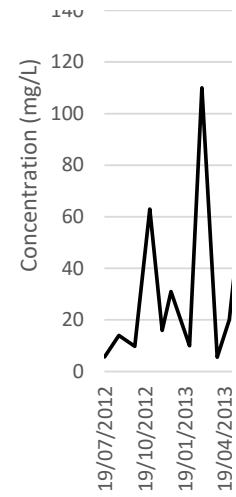
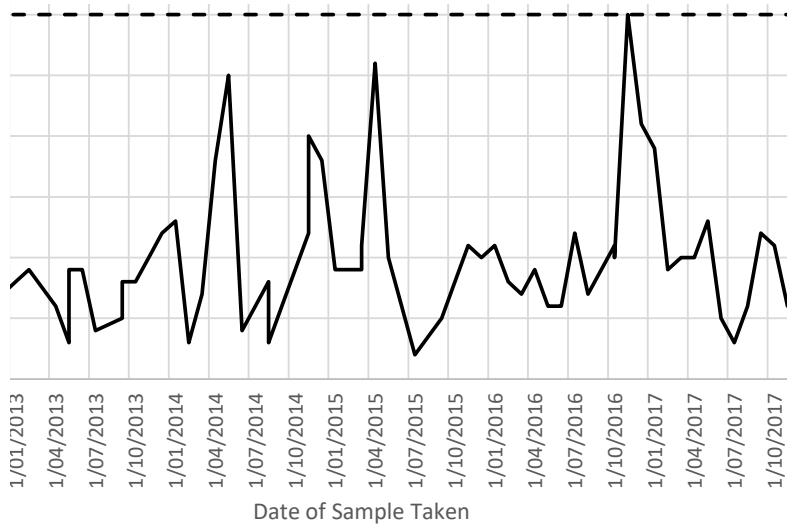
Faecal Coliforms



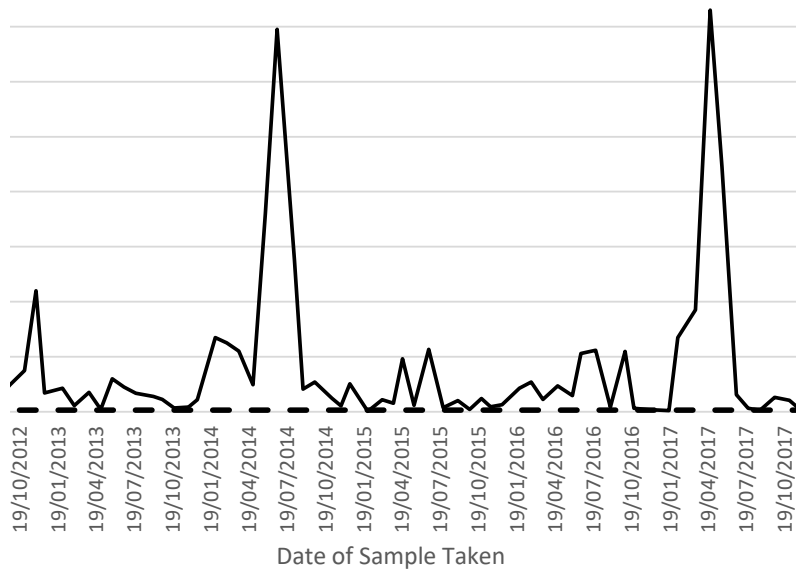
Suspended Solids



160
140

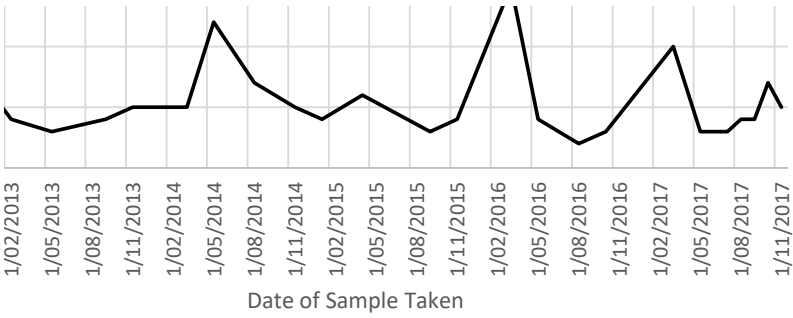


Faecal Coliforms

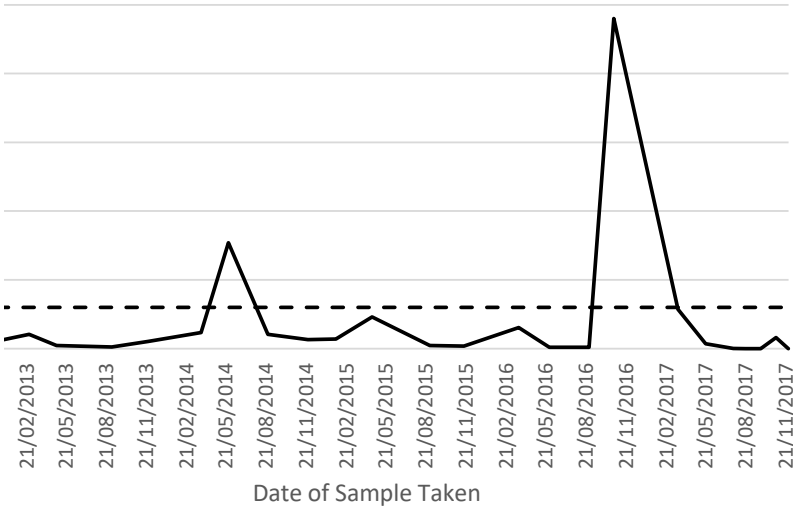


Suspended Solids

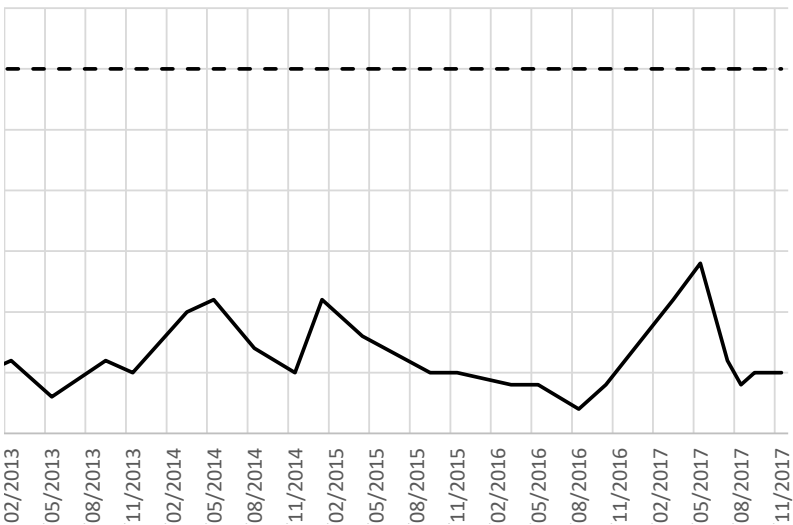




Faecal Coliforms



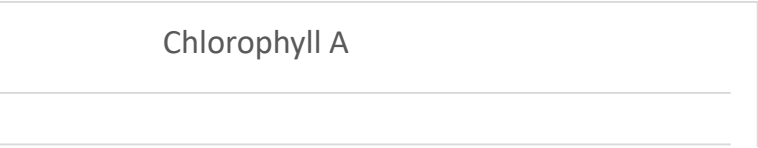
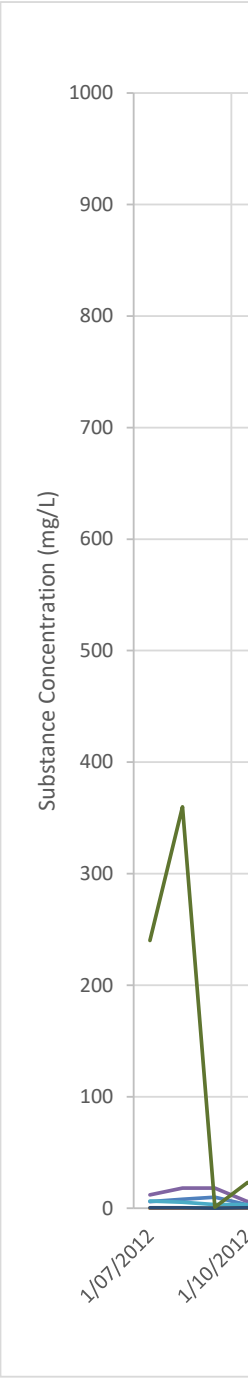
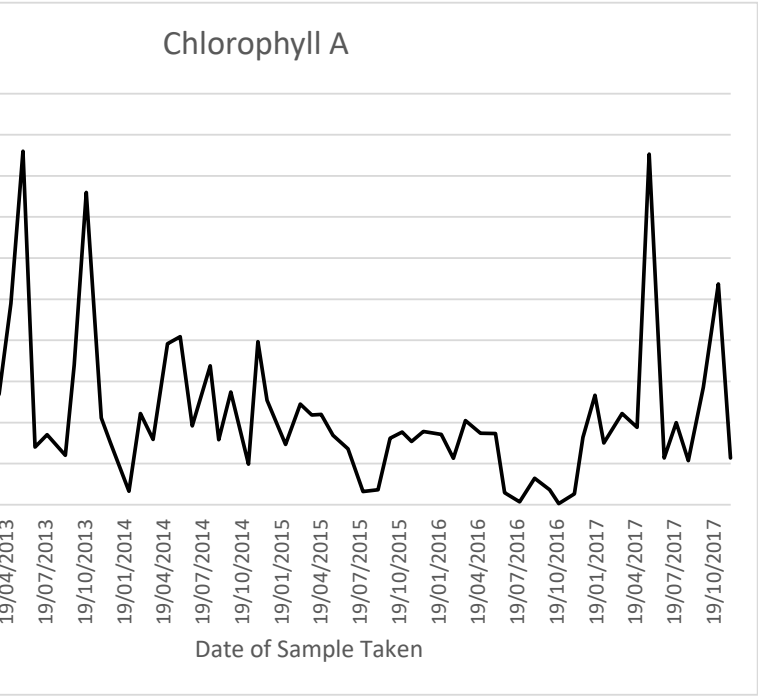
Suspended Solids

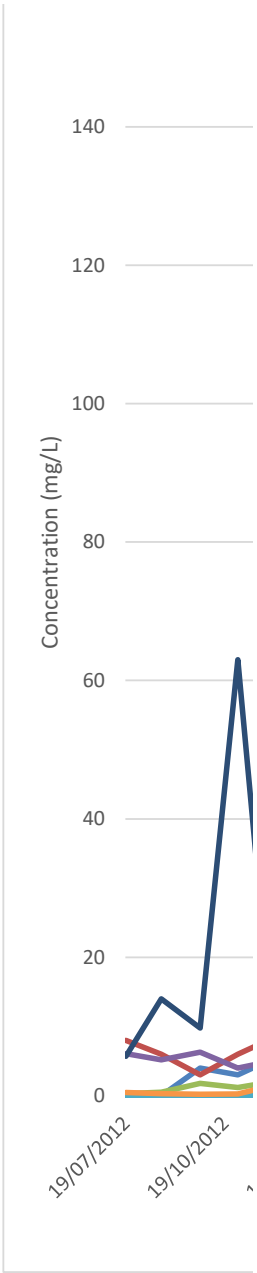
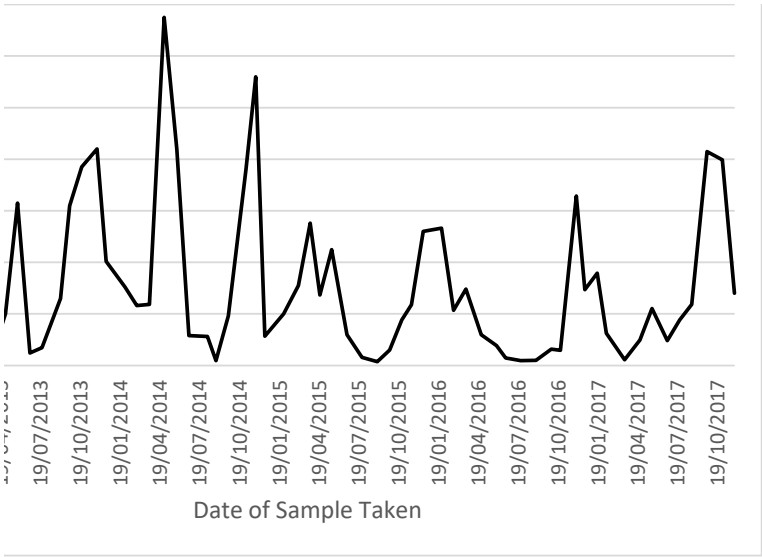


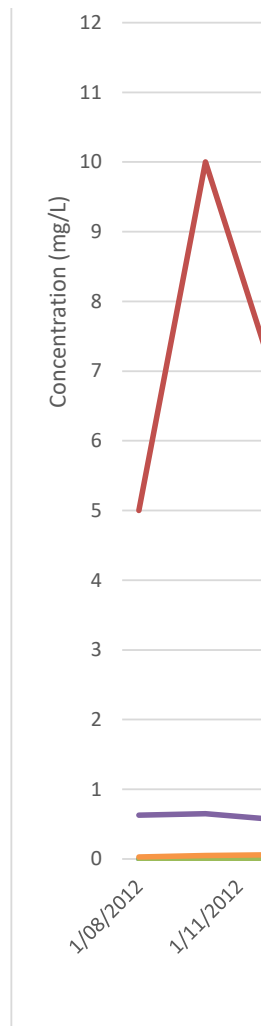
Faecal Coliforms

The graph displays the concentration of Faecal Coliforms (CFU/100ml) over time. The y-axis ranges from 0 to 100 CFU/100ml, with a dashed line at 100. The x-axis shows dates from 21/02/2013 to 21/11/2017. The concentration remains low (below 20 CFU/100ml) until early 2014, then spikes sharply to approximately 100 CFU/100ml in May 2014. It then fluctuates, with another significant peak in February 2017 reaching about 80 CFU/100ml, before declining again.

Date of Sample Taken	Concentration (CFU/100ml)
21/02/2013	10
21/05/2013	10
21/08/2013	10
21/11/2013	15
21/02/2014	20
21/05/2014	100
21/08/2014	10
21/11/2014	25
21/02/2015	15
21/05/2015	40
21/08/2015	10
21/11/2015	15
21/02/2016	30
21/05/2016	10
21/08/2016	10
21/11/2016	75
21/02/2017	80
21/05/2017	10
21/08/2017	10
21/11/2017	10

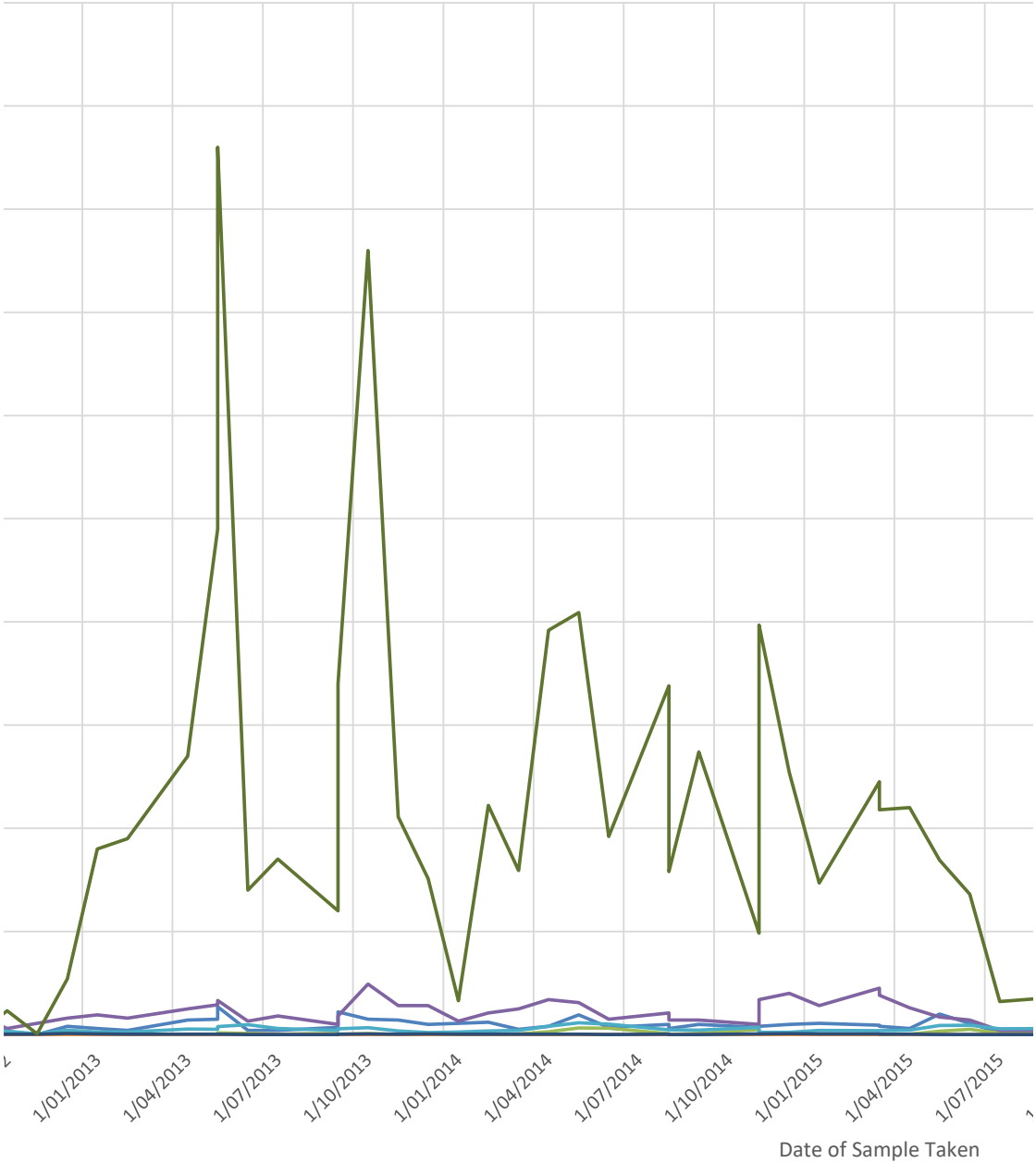




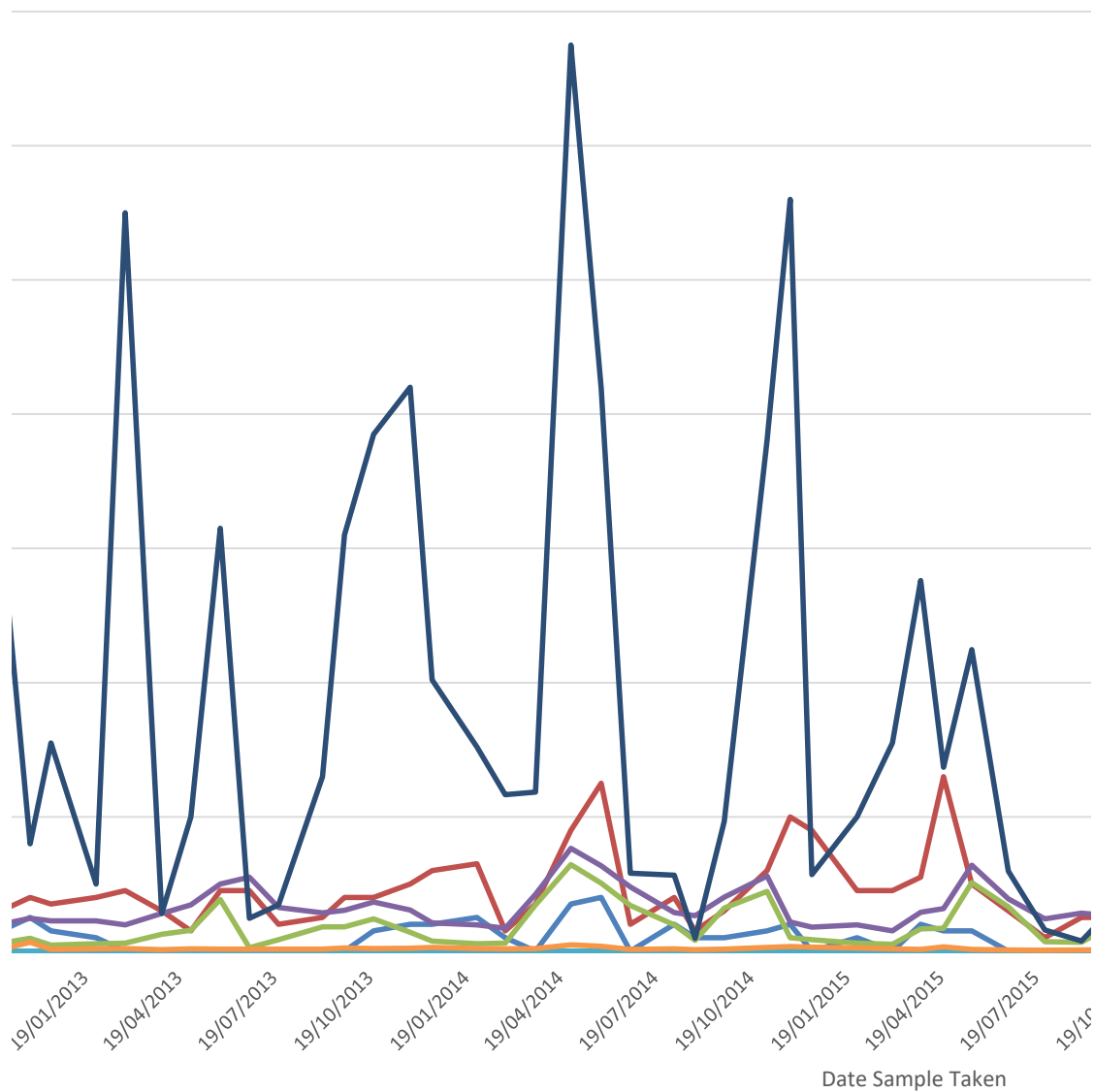




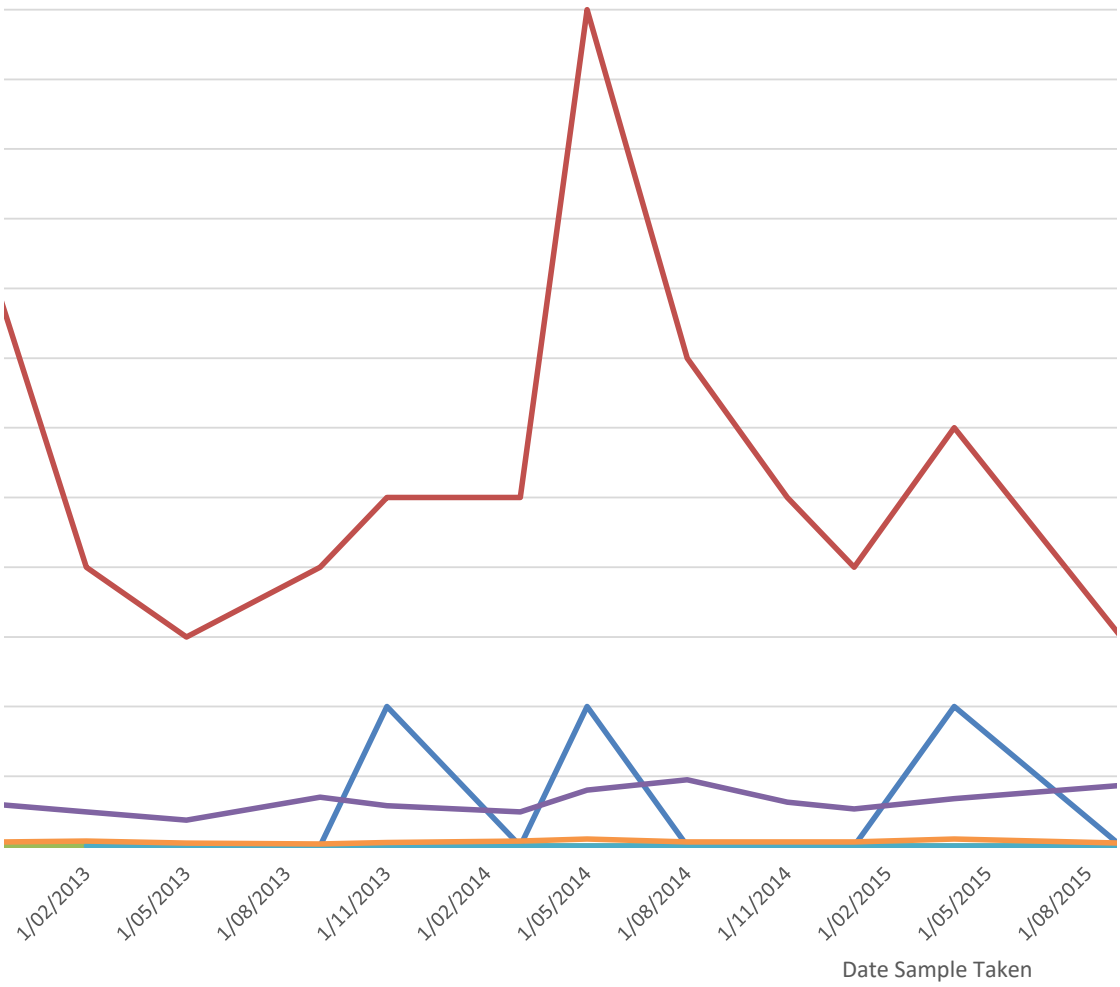
Overview of Effluent Quality (Matu



Overview of Effluent Quality

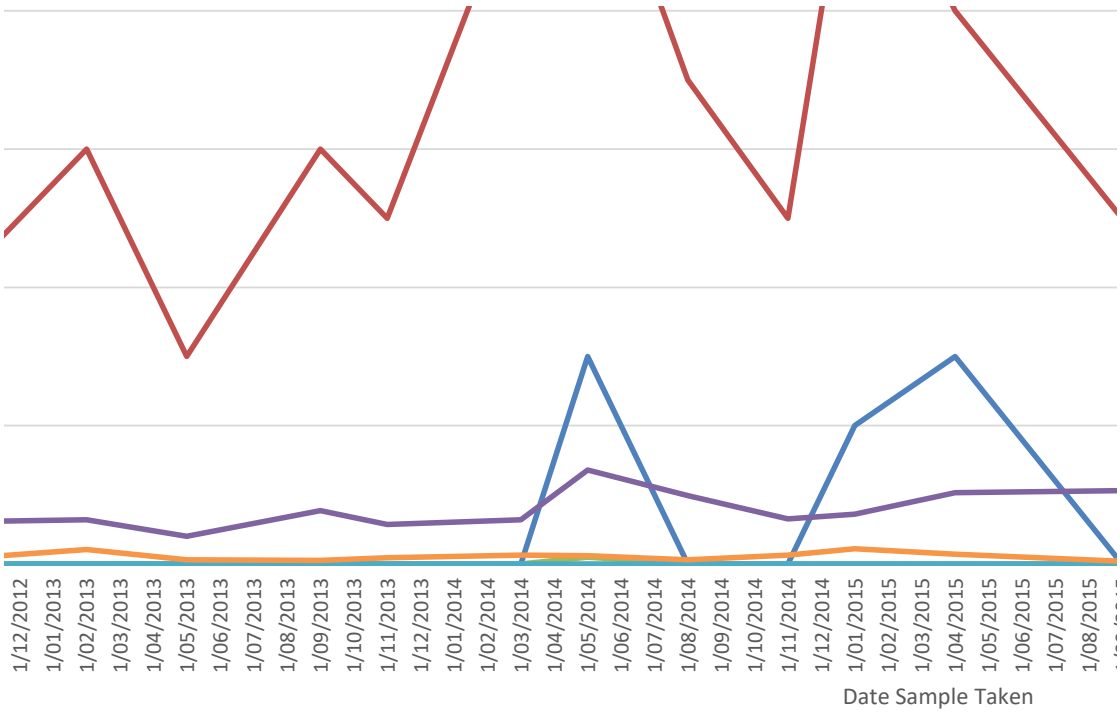


Overview of Effluent Quality (Upstream)

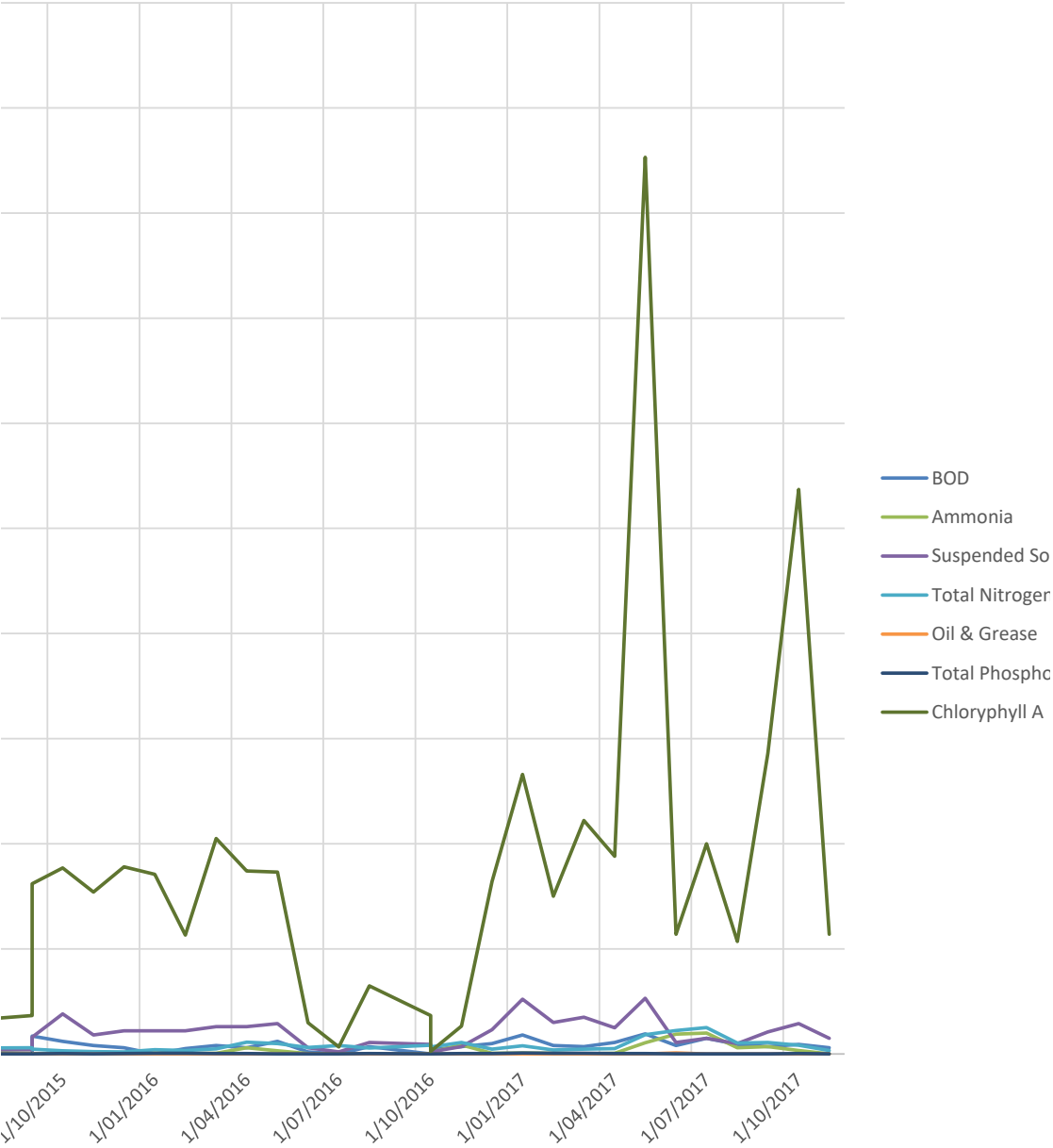


Overview of Effluent Quality (Discharge from

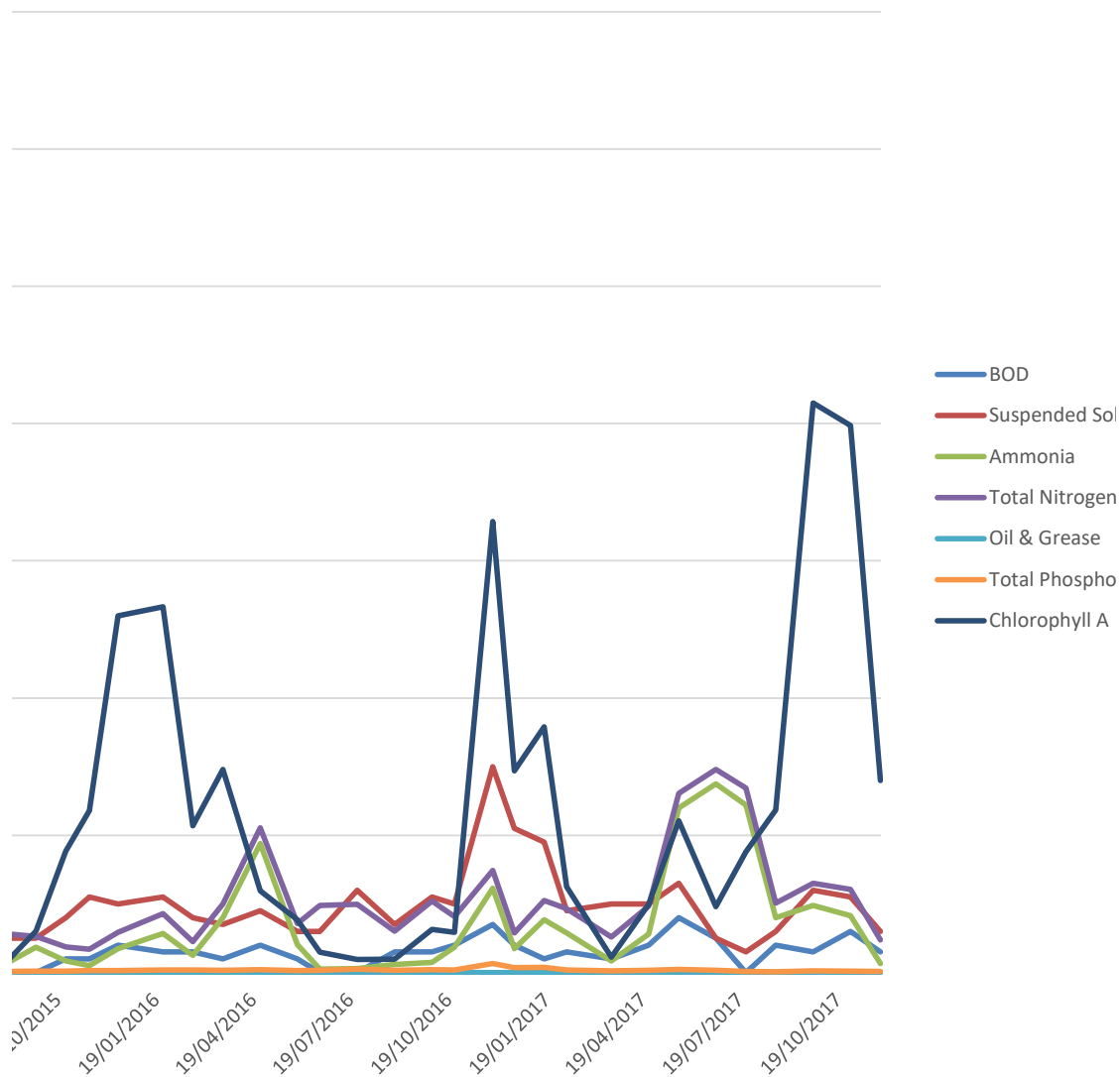




ration Pond Discharge)

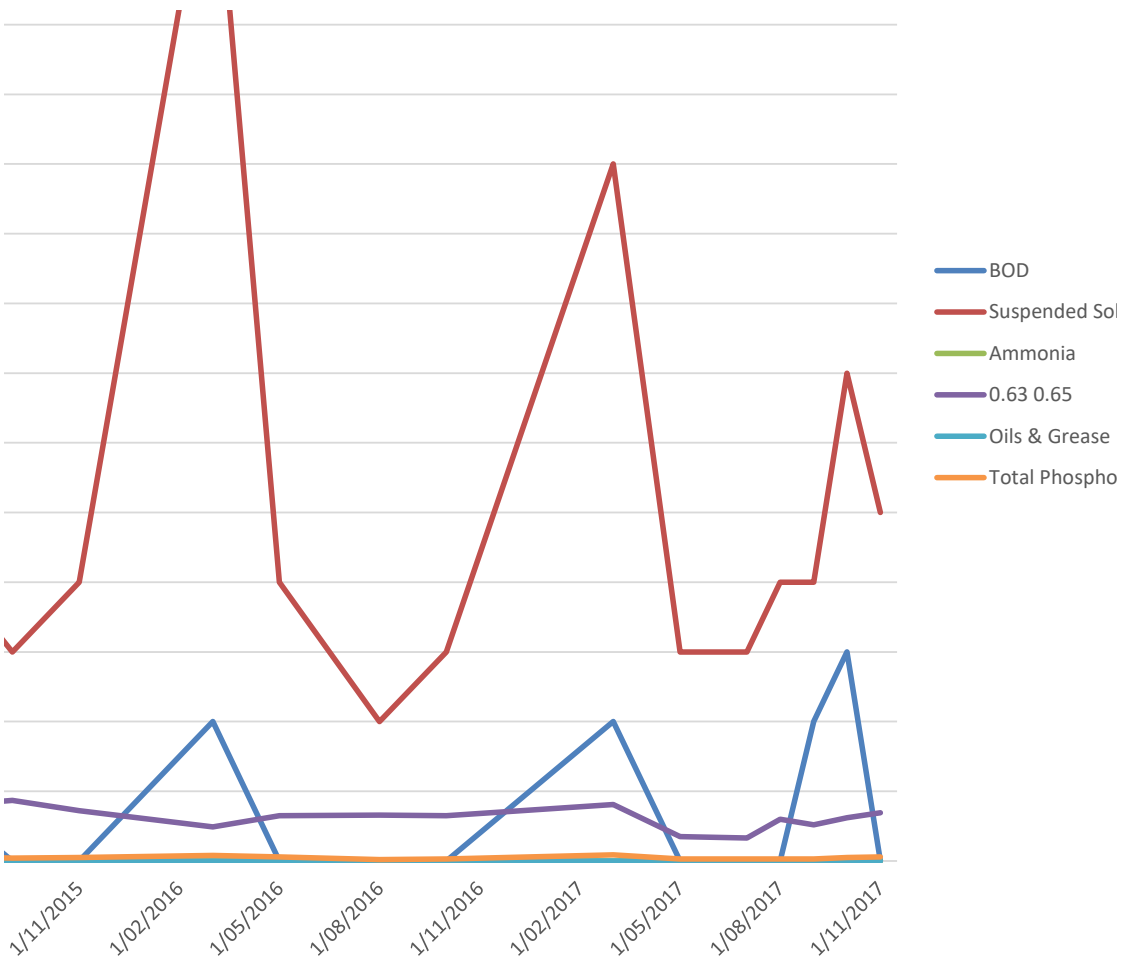


y (Inlet Flume)



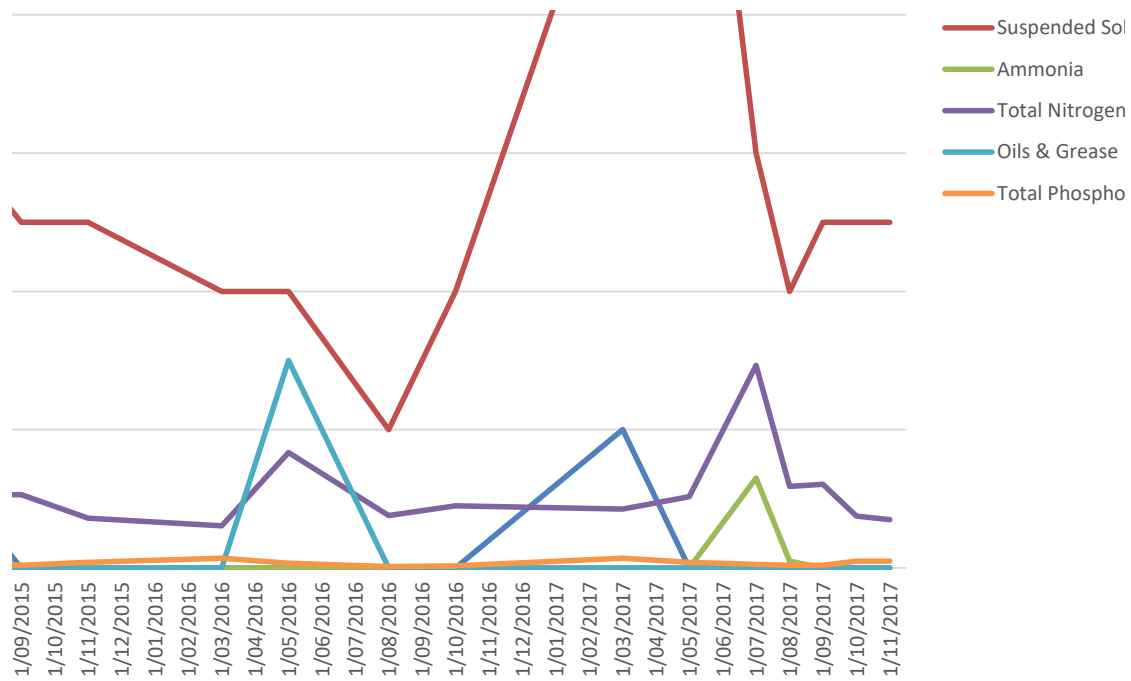
Discharge from Wetlands)





Wetlands into Crookwell River)





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