SINGLETON COUNCIL

EPL 3088 - Effluent Quality Monitoring

Location of monitoring/discharge points and areas

EPA identification no.	Type of monitoring point	Type of discharge point	Description of location
1	Quality monitoring	N/A	Decant weir for Intermittent Extended Aeration Ponds
2	Total volume monitoring	N/A	The volume measuring flume at the inlet works
3	Effluent quality monitoring	Discharge to waters	Outlet pit downstream of the maturation pond discharging into Doughboy Hollow labelled as Sampling Point 3 (SP3) on drawing labelled "site plan" submitted to the DECC with Annual Return 04/05

Concentration Limits

Pollutant	Units of Measure	50 percentile concentration limit	80 percentile concentration limit	90 percentile concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre	-	10	-	15
Nitrogen (total)	milligrams per litre	-	15	-	25
Phosphorous (total)	milligrams per litre	-	10	-	15
Total suspended solids	milligrams per litre	20	-	30	35
Biochemical oxygen demand	milligrams per litre	20	-	30	35
E. coli	cfu per 100 millilitres	-	-	1000	-
Enterococci	cfu per 100 millilitres	-	-	230	-
pH	-	-	-	-	6.5 - 8.5

Monitoring Data

Sampling Point	Measurement Date	Date Sampled	Date Results Published	Oil and Grease (mg/L)	Nitrogen (mg/L)	Phosphorous (mg/L)	Total Suspended Soilds (mg/L)	Biochemical Oxygen Demand (mg/L)	E. coli (cfu/100ml)	Enterococci (cfu/100ml)	pH	EPA Licence Compliance
3	Jan-13	2/01/2013	1/08/2013	<2	1.30	5.00	2	<2	N/A	N/A	N/A	100%
3	Feb-13	4/02/2013	1/08/2013	<2	3.10	6.00	1	<2	N/A	N/A	N/A	100%
3	Mar-13	4/03/2013	1/08/2013	<2	3.30	5.10	1	<2	N/A	N/A	N/A	100%
3	Mar-13	11/03/2013	1/08/2013	<2	4.20	4.20	7	<2	N/A	N/A	N/A	100%
3	Mar-13	18/03/2013	1/08/2013	<2	2.90	4.40	7	3	N/A	N/A	N/A	100%
3	Apr-13	2/04/2013	1/08/2013	<2	4.30	4.70	7	<2	N/A	N/A	N/A	100%
3	Apr-13	8/04/2013	1/08/2013	<2	3.70	5.50	7	<2	N/A	N/A	N/A	100%
3	Apr-13	15/04/2013	1/08/2013	<2	2.40	5.40	7	<2	N/A	N/A	N/A	100%
3	Apr-13	22/04/2013	1/08/2013	<2	2.90	4.90	2	<2	N/A	N/A	N/A	100%
3	Apr-13	29/04/2013	1/08/2013	<2	3.00	4.20	4	<2	N/A	N/A	N/A	100%
3	May-13	6/05/2013	2/08/2013	<2	3.50	3.10	4	<2	N/A	N/A	N/A	100%
3	May-13	13/05/2013	3/08/2013	<2	3.80	3.00	12	<2	N/A	N/A	N/A	100%
3	May-13	20/05/2013	4/08/2013	<2	3.00	2.90	12	<2	N/A	N/A	N/A	100%
3	May-13	27/05/2013	5/08/2013	<2	3.10	2.70	5	<2	N/A	N/A	N/A	100%
3	Jun-13	3/06/2013	6/08/2013	<2	2.50	3.10	9	<2	N/A	N/A	N/A	100%
3	Jul-13	1/07/2013	10/10/2013	2	2.60	4.40	4	2	N/A	N/A	N/A	100%
3	Aug-13	5/08/2013	10/10/2013	<2	3.80	4.50	4	<2	N/A	N/A	N/A	100%
3	Sep-13	2/09/2013	22/01/2014	<2	3.80	6.90	12	3	N/A	N/A	N/A	100%
3	Oct-13	8/10/2013	22/01/2014	<2	5.40	4.00	2	2	N/A	N/A	N/A	100%
3	Nov-13	4/11/2013	22/01/2014	<2	2.90	4.80	6	<2	N/A	N/A	N/A	100%
3	Dec-13	2/12/2013	25/01/2014	<2	2.80	7.30	10	<2	N/A	N/A	N/A	100%
3	Jan-14	6/01/2014	19/03/2014	2	2.10	4.40	1	<2	N/A	N/A	N/A	100%
3	Feb-14	3/02/2014	19/03/2014	<2	2.60	3.40	6	2	N/A	N/A	N/A	100%
3	Mar-14	3/03/2014	14/05/2014	<2	2.00	4.00	4	<2	N/A	N/A	N/A	100%
3	Apr-14	7/04/2014	14/05/2014	<2	4.50	5.20	2	<2	N/A	N/A	N/A	100%
3	May-14	5/05/2014	12/08/2014	<2	3.10	5.70	3	<2	N/A	N/A	N/A	100%
3	Jun-14	2/06/2014	12/08//2014	<2	3.70	9.20	6	<2	N/A	N/A	N/A	100%
3	Jul-14	7/07/2014	12/08/2014	<2	5.70	7.90	3	3	N/A	N/A	N/A	100%
3	Aug-14	4/08/2014	13/08/2014	<2	3.80	7.10	2	<2	N/A	N/A	N/A	100%
3	Sep-14	1/09/2014	7/10/2014	<2	2.90	6.80	3	<2	0	0	7.80	100%
3	Oct-14	7/10/2014	4/11/2014	<2	2.90	6.60	<1	<2	2100	40	8.10	100%
3	Nov-14	3/11/2014	17/12/2014	<2	1.50	6.20	<1	<2	0	0	7.90	100%
3	Dec-14	1/12/2014	17/12/2014	<2	5.40	6.00	3	3	0	0	7.80	100%
3	Jan-15	12/01/2015	02/02/205	<2	2.10	6.10	6	3	20	21	7.70	100%
3	Feb-15	2/02/2015	2/03/2015	<2	3.10	7.50	9	5	0	est. 7	7.90	100%
3	Mar-15	2/03/2015	4/04/2015	<2	9.20	6.10	22	6	est. 18	<9	7.60	100%
3	Apr-15	7/04/2015	7/04/2015	<2	3.50	7.00	3	<2	290	100	7.70	100%
3	May-15	11/05/2015	17/06/2015	<2	4.60	6.20	7	<2	260	est. 45	7.90	100%
3	Jun-15	1/06/2015	14/07/2015	<2	4.30	6.40	<1	<2	210	est. 82	7.60	100%
3	Jul-15	6/07/2015	11/08/2015	<2	4.40	6.30	<1	2	160	est. 9	7.90	100%
3	Aug-15	3/08/2015	27/08/2015	<2	8.80	6.10	4	4	260	est. 27	7.90	100%
3	Sep-15	7/09/2015	11/11/2015	3	1.18	3.90	4	<2	240	est. 27	7.80	100%
3	Oct-15	6/10/2015	7/12/2015	<2	2.30	3.10	5	2	160	<9	8.30	100%
3	Nov-15	02/22/2015	13/01/2016	<2	1.60	1.60	2	6	est. 18	est. 9	9.10	88%
3	Dec-15	7/12/2015	13/01/2016	<2	2.10	3.30	17	4	est. 18	<9	9.20	88%
3	Jan-16	18/01/2016	1/02/2016	<2	3.80	6.40	7	3	est. 100	<9	8.00	100%
3	Feb-16	1/02/2016	10/03/2016	<2	3.10	4.20	35	6	<330	est. 36	9.20	88%
3	Mar-16	7/03/2016	8/04/2016	<2	1.90	4.70	23	7	est.91	est. 55	8.90	88%
3	Apr-16	4/04/2016	9/05/2016	<2	2.00	5.90	6	5	est <91	est. 55	8.60	88%
3	May-16	2/05/2016	21/06/2016	<2	3.00	4.50	8	<2	est. 91	170	7.70	100%
3	Jun-16	14/06/2016	6/07/2016	<2	4.80	3.60	9	2	est. 91	~50	7.80	100%
3	Jul-16	4/07/2016	2/08/2016	<2	5.20	5.20	8	3	<91	~33	7.80	100%
3	Aug-16	15/08/2016	6/09/2016	<2	3.10	4.30	2	3	~18	<9	7.84	100%
3	Sep-16	5/09/2016	10/10/2016	<2	3.00	5.20	2	6	~55	~45	7.94	100%
3	Oct-16	31/10/2016	9/11/2016	<2	1.80	6.40	<1	<2	~18	~18	8.38	100%
3	Nov-16	14/11/2016	21/12/2016	<2	1.60	5.30	10	<2	~9	~18	8.41	100%
3	Dec-16	5/12/2016	10/01/2017	<2	1.90	5.00	11	<2	~100	~27	8.30	100%
3	Jan-17	16/01/2017	8/02/2017	<2	3.40	8.50	17	7	~27	~27	7.90	100%
3	Feb-17	20/02/2017	13/03/2017	<2	1.90	7.40	13	6	~9	~45	8.08	100%
3	Mar-17	27/03/2017	11/04/2017	<2	2.60	4.80	14	2	91	~45	8.50	100%
3	Apr-17	3/04/2017	9/05/2017	<2	2.80	4.90	4	5	~190	~27	7.92	100%
3	May-17	22/05/2017	8/06/2017	<2	2.70	6.10	9	5	150	~55	8.08	100%
3	Jun-17	5/06/2017	11/07/2017	<2	3.00	5.00	4	5	~91	~9	8.08	100%
3	Jul-17	17/07/2017	8/08/2017	<2	4.20	5.60	12	3	<9	~9	9.34	100%
3	Aug-17	7/08/2017	7/09/2017	<2	3.10	3.80	17	12	~45	~9	9.18	100%
3	Sep-17	4/09/2017	15/10/2017	<2	3.60	4.90	33	14	~55	120	9.34	88%
3	Oct-17	9/10/2017	20/12/2017	<2	2.20	4.70	3	3	<9	~18	7.60	100%
3	Nov-17	13/11/2017	20/12/2017	<2	5.20	3.90	<1	4	~55	<9	7.92	100%
3	Dec-17	4/12/2017	11/01/2018	<2	1.40	3.00	4	3	~91	~18	8.99	88%
3	Jan-18	8/01/2018	9/02/2018	<2	1.00	1.80	12	2	~36	~55	9.74	88%
3	Feb-18	5/02/2018	14/03/2018	<2	2.00	4.30	18	6	~27	~9	8.25	100%
3	Mar-18	12/03/2018	13/04/2018	<2	2.30	2.60	14	7	~<9	<9	8.74	88%
3	Apr-18	3/04/2018	14/05/2018	<2	1.30	4.10	11	6	~36	~9	7.92	100%
3	May-18	7/05/2018	13/06/2018	<2	2.10	5.00	8	5	~91	~9	8.32	100%

Sampling Point	Measurement Date	Date Sampled	Date Results Published	Oil and Grease (mg/L)	Nitrogen (mg/L)	Phosphorous (mg/L)	Total Suspended Soilds (mg/L)	Biochemical Oxygen Demand (mg/L)	E. coli (cfu/100ml)	Enterococci (cfu/100ml)	pH	EPA Licence Compliance
3	Jun-18	4/06/2018	3/07/2018	<2	6.60	7.00	6	5	~<9	~45	7.77	100%
3	Jul-18	2/07/2018	17/08/2018	<2	3.60	5.70	13	6	91	<9	8.21	100%
3	Aug-18	6/08/2018	7/09/2018	<2	2.10	4.80	7	4	~27	~27	8.71	88%
3	Sep-18	10/09/2018	9/11/2018	<2	5.40	5.60	13	22	<9	0	7.79	100%
3	Oct-18	15/10/2018	9/11/2018	<2	3.80	5.40	4	10	<9	<9	7.77	100%
3	Nov-18	5/11/2018	18/12/2018	<2	3.30	4.80	5	5	<9	<9	7.89	100%
3	Dec-18	3/12/2018	25/01/2019	<2	10.80	6.50	70	9	<9	<9	7.80	88%
3	Jan-19	7/01/2019	8/02/2019	<2	2.40	10.20	24	5	~<100	~9	8.54	100%
3	Feb-19	4/02/2019	9/02/2019	<2	1.70	4.90	16	2	<9	<9	8.52	88%
3	Mar-19	25/03/2019	10/02/2019	<2	1.60	5.00	13	3	<9	<9	8.22	100%
3	Apr-19	1/04/2019	11/02/2019	<2	3.20	4.60	9	2	<100	~64	8.23	100%
3	May-19	6/05/2019	9/07/2019	<2	5.20	9.40	22	5	~<9	<9	8.00	100%
3	Jun-19	11/06/2019	9/07/2019	<2	9.00	4.10	16	7	<9	<9	7.06	100%
3	Jul-19	22/07/2019	5/08/2019	<2	6.50	6.60	14	9	<9	<9	7.89	100%
3	Aug-19	19/08/2019	5/08/2019	<2	5.40	6.00	6	<2	<9	<9	7.94	100%
3	Sep-19	23/09/2019	11/10/2019	<2	7.90	6.18	6	10	<9	<9	7.68	100%
3	Oct-19	14/10/2019	13/11/2019	<2	4.80	6.72	7	7	<9	<9	7.80	100%
3	Nov-19	18/11/2019	10/12/2019	<2	2.80	6.70	11	3	<9	<9	8.72	88%
3	Dec-19	16/12/2019	15/01/2020	<2	3.40	6.50	16	5	<100	<9	8.63	88%
3	Jan-20	20/01/2020	7/02/2020	<2	1.80	5.94	18	6	<9	~36	8.85	88%
3	Feb-20	17/02/2020	4/03/2020	<2	2.30	3.50	26	5	<9	~18	9.27	88%
3	Mar-20	16/03/2020	15/04/2020	<2	1.90	5.65	16	9	<9	~27	9.16	88%
3	Apr-20	27/03/2020	20/05/2020	<2	1.80	6.80	16	6	<9	<9	8.14	100%
3	May-20	11/05/2020	11/06/2020	<2	2.20	5.38	12	3	<9	<9	7.84	100%
3	Jun-20	9/06/2020	12/06/2020	<2	2.50	5.10	12	<2	<9	<9	7.97	100%
3	Jul-20	20/07/2020	7/08/2020	2	3.10	4.28	<5	4	<9	<9	7.86	100%
3	Aug-20	31/08/2020	11/09/2020	<2	5.00	5.38	<5	<2	<2	<2	7.94	100%
3	Sep-20	28/09/2020	14/10/2020	<2	6.30	5.44	<5	<2	<2	<2	7.94	100%
3	Oct-20	19/10/2020	18/11/2020	<2	3.50	2.99	<5	<2	<20	<2	7.89	100%
3	Nov-20	16/11/2020	17/12/2020	<2	3.00	3.61	<5	<2	<20	<2	7.90	100%
3	Dec-20	14/12/2020	12/01/2021	<2	1.60	4.58	15	4	<20	<2	8.94	88%
3	Jan-21	18/01/2021	9/02/2021	<2	1.80	5.35	10	4	<20	38	8.61	88%
3	Feb-21	15/02/2021	9/03/2021	<2	1.40	6.94	11	5	~20	<2	8.18	100%
3	Mar-21	15/03/2021	10/03/2021	<1	1.10	4.84	6	2	~<20	25	7.80	100%
3	Apr-21	4/12/2021	10/05/2021	<2	2.80	4.64	12	<2	<20	~2	8.43	100%
3	May-21	10/05/2021	4/06/2021	<2	4.30	5.25	8	4	~<2	<2	8.06	100%
3	Jun-21	15/06/2021	2/03/2022	<2	4.10	4.72	11	3	~15	~4	8.66	88%
3	Jul-21	12/07/2021	2/03/2022	<2	4.30	4.49	11	2	<2	<2	8.98	88%
3	Aug-21	16/08/2021	2/03/2022	2	4.00	6.72	26	6	<20	<2	8.96	88%
3	Sep-21	13/09/2021	2/03/2022	<2	2.30	6.70	24	3	<20	<2	8.82	88%
3	Oct-21	18/10/2021	2/03/2022	<2	2.00	5.24	18	2	~<20	<2	8.94	88%
3	Nov-21	22/11/2021	2/03/2022	<2	4.50	6.07	8	5	~7	~11	7.90	100%
3	Dec-21	20/12/2021	2/03/2022	<2	3.10	4.30	8	2	~<2	~2	8.01	100%
3	Jan-22	17/01/2022	2/03/2022	<2	2.00	6.72	15	<2	~80	87	8.60	88%
3	Feb-22	14/02/2022	15/03/2022	<2	2.10	4.87	10	9	~20	720	8.14	88%
3	Mar-22	14/03/2022	14/04/2022	<2	7.20	3.88	18	5	880	31	7.61	100%
3	Apr-22	11/04/2022	6/06/2022	<2	6.10	3.07	9	4	~<2	~7	7.85	100%
3	May-22	16/05/2022	10/06/2022	<2	6.00	3.71	14	3	~5	<2	7.84	100%
3	Jun-22	20/06/2022	28/07/2022	<2	9.60	6.94	25	2	<2	~91	9.12	88%
3	Jul-22	18/07/2022	31/08/2022	<2	8.60	2.34	9	4	~260	~13	7.57	100%
3	Aug-22	15/08/2022	31/08/2022	3	8.88	4.06	32	9	24	~4	8.23	88%
3	Sep-22	12/09/2022	19/10/2022	2	9.30	4.46	14	9	20	2	7.71	100%
3	Oct-22	17/10/2022	27/10/2022	<2	7.70	5.40	<5	3	<2	<2	7.63	100%
3	Nov-22	14/11/2022	9/12/2022	3	4.60	5.64	17	5	<20	42	7.84	100%
3	Dec-22	19/12/2022	27/02/2023	2	3.00	8.11	22	<2	<2	<2	7.92	100%
3	Jan-23	9/01/2023	27/02/2023	<2	2.90	7.04	27	<2	~33	~7	8.73	88%
3	Feb-23	13/02/2023	8/05/2023	2	2.90	5.08	28	4	91	2500	8.89	75%
3	Mar-23	13/03/2023	8/05/2023	<2	3.00	6.14	14	4	~98	180	7.93	100%
3	Apr-23	11/04/2023	8/05/2023	<2	6.10	3.07	9	4	~<2	7	7.85	100%
3	May-23	8/05/2023	6/07/2023	<1	8.70	3.49	12	2	~<2	<2	7.81	100%
3	Jun-23	5/06/2023	6/07/2023	<2	6.50	4.50	14	<2	~180	~5	7.61	100%
3	Jul-23	3/07/2023	14/03/2024	<2	6.50	5.37	23	12	~<2	<2	8.46	88%
3	Aug-23	7/08/2023	14/03/2024	<2	4.90	6.20	20	2	<20	<2	7.95	88%
3	Sep-23	4/09/2023	14/03/2024	<2	4.10	4.98	<5	<2	<20	<2	7.49	100%
3	Oct-23	3/10/2023	14/03/2024	<2	3.20	4.90	9	<2	<20	<2	8.28	100%
3	Nov-23	6/11/2023	14/03/2024	<2	3.80	5.93	<5	2	~2	<2	7.73	100%
3	Dec-23	11/12/2023	14/03/2024	<2	1.60	4.12	22	<2	~<2	<1	9.11	75%
3	Jan-24	2/01/2024	14/03/2024	<2	2.30	3.78	22	2	~1000	<2	9.29	75%
3	Feb-24	12/02/2024	14/03/2024	<2	3.30	4.16	14	4	~6	~2	8.00	100%