

## Monthly MP1 Summary of Monitoring Data required by NSW EPL 1699

<b>Site:</b>	Tahmoor PPP
<b>EPL:</b>	1699
<b>Link:</b>	<a href="http://www.epa.nsw.gov.au/prpoeoapp">http://www.epa.nsw.gov.au/prpoeoapp</a>
<b>Licensee name:</b>	Inghams Enterprises Pty Ltd
<b>Licensee's address:</b>	Locked Bag 2039, North Ryde, NSW 1670
<b>Location of monitoring point / area:</b>	MP1 - Irrigation Pond, MP2 - Irrigation area (soil monitoring points C1, X, G4, P1a, P1b, P2 and P3 on effluent re-use areas)
<b>Pollutant:</b>	Secondary treated effluent
<b>Unit of measure:</b>	Various, see results tables below
<b>Monitoring frequency:</b>	MP1 - Monthly, MP2 - Annually
<b>Any other relevant requirements:</b>	MP2
<b>Any limit imposed by the licence:</b>	No

MP1 - Monthly Sampling date	BOD mg/L	Nitrate mg/L	Amm-N mg/L	pH	Phosphorus mg/L	TKN mg/L	TN mg/L	TSS mg/L
26/04/2012	7	<0.2	79	7.3	16	87	87	60
24/05/2012	19	<0.2	87	7.5	16	99	99	60
20/06/2012	30	0.84	88	7.7	16	100	100	30
10/07/2012	130	<0.2	100	7.1	23	120	120	37
14/08/2012	250	<0.2	120	7.6	17	120	120	42
12/09/2012	380	<0.2	100	7.5	20	120	120	63
17/10/2012	150	<0.2	83	8.1		110	110	130
14/11/2012	140	<0.2	74	8	19	110	110	180
11/12/2012	59	<0.2	68	8.1	18	94	94	120
17/01/2013	51	0.24	74	8.1	24	90	90	85
13/02/2013	15	<0.2	52	7.7	13	80	80	50
12/03/2013	17	<0.2	58	7.35	16	70	70	50
17/04/2013	12	0.36	68	7.6	18	81	81	38
10/05/2013	42	0.01	67.5	7.4	16.2	90	90	49
14/06/2013	85	<0.2	65.5	7.4	14.8	79.1	79.1	83
12/07/2013	181	<0.01	61	7.3	14.1	88.3	88.3	83
8/08/2013	100	0.01	62.8	7.4	15.2	81	81	82
16/09/2013	112	1.2	58.2	7.4	13.1	72.7	72.7	146
10/10/2013	116	0.01	62.4	7.6	14.6	91.5	91.5	142
14/11/2013	41	0.03	60.2	8	14.2	80.3	80.3	93
12/12/2013	14	0.13	59.2	8.1	7.16	51	0.9	7.1
23/01/2014	21	0.02	55.4	7.8	13.7	62.7	62.7	34
14/02/2014	14	0.02	65.9	7.9	13.8	72	72	20
14/03/2014	29	0.01	55.4	7.9	10.9	63.8	63.8	77
9/05/2014	32	<0.01	74.1	7.7	12.9	78.9	78.9	75
20/06/2014	38	<0.01	<0.01	7.56	13.8	75.4	75.4	79.4
Jul-14	42	0.03	109	7.7	14.4	108	108	64
Aug-14	Due to ASL switching samplers, the sample for August 2014 was missed by the previous sampler. Cathering Condoc, Client Services Officer, ALS, Environmental Division, 277-289 Woodpark Rd, Smithfield, NSW 2164							
12/09/2014	45	0.03	79.7	7.8	13.3	104	104	104
10/10/2014	23	<0.01	99.8	8.1	14	102	102.01	47
14/11/2014	77	4.9	81.2	8	23.4	89.5	94.73	23
12/12/2014	12	14.9	49.8	7.9	10.5	50.8	65.9	20
9/01/2015	10	17.4	16.6	8	9.18	22.9	42.6	38
12/02/2015	6	21.8	1.4	7.6	8.29	5.2	28.9	12
13/03/2015	23	3.25	0.6	7.9	8.8	14.1	18.93	37
8/04/2015	7	24.6	8.3	7.9	9.1	13.9	39	25
14/05/2015	5	29.4	13.2	7.6	9.11	21.8	51.3	<5
11/06/2015	6	15.7	31.6	7.7	10.6	42.6	58.3	<5
8/07/2015	5	48.8	13.5	7.5	9.75	22.5	71.4	6
12/08/2015	9	10.5	15.6	8.7	6.77	14.8	25.5	20
11/09/2015	10	5.25	7.1	7.8	11.4	10	15.38	11
8/10/2015	3	63.2	0.9	7.1	13	8.1	71.4	10
13/11/2015	15	16.3	0.6	8.1	11.6	4	20.4	12
10/12/2015	<2	43.8	<0.2	7.6	22.8	5.1	49.1	<5
8/01/2016	<2	48.8	3.5	7.4	13	5.2	54.1	<5
2/02/2016	3	38.9	0.3	7.1	12.8	4.9	43.9	<5

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MP1 - Monthly Sampling date	BOD mg/L	Nitrate mg/L	Amm-N mg/L	pH	Phosphorus mg/L	TKN mg/L	TN mg/L	TSS mg/L
9/03/2016	<2	20.7	2.5	7.6	17.7	4	24.9	6
5/04/2016	<2	30.2	<0.1	7.4	13.8	4.4	34.7	8
13/05/2016	<2	22.6	<0.2	7.3	13.6	1.3	24.1	6
2/06/2016	<2	44.6	0.8	6.9	29.4	7.4	52.1	<5
7/07/2016	4	21.7	<0.1	7.4	12.8	4.8	26.6	7
12/08/2016	4	20.2	<0.1	7.5	14.3	5.1	25.5	<5
9/09/2016	<2	31.7	<0.1	6.9	16.8	5.8	37.8	<5
13/10/2016	<2	28.9	0.3	7.2	17.2	6.7	35.8	<5
10/11/2016	2	29.3	<0.1	7.4	15.7	6.7	36.1	<5
9/12/2016	6	37.6	<0.1	7.6	16	6.7	44.4	9
12/01/2017	<2	22.3	<0.1	7.7	14.4	3.4	25.9	14
8/02/2017	6	23.5	<0.4	7.9	17.5	3.5	27.2	7
9/03/2017	11	21.6	<0.1	7.8	14.3	6.3	28	15
13/04/2017	<2	37.6	0.6	7.5	16.6	7.8	45.5	13
10/05/2017	2	22.8	<0.1	7.4	15.4	3.5	26.4	7
29/06/2017	4		<0.1	7.7	11.8	11.8	18.7	6
24/07/2017	2		<0.1	7.7	13.3	6	34	<5
3/08/2017	3		<0.1	7.6	12.3	2.3	11.68	6
21/09/2017	3		<0.1	7.9	11.6	2.3	16.7	8
25/10/2017	3	7.07	<0.1	7.5	12.9	2.7	9.85	43
16/11/2017	<2	2.43	<0.1	7.8	10	1.4	3.8	<5
7/12/2017	<2	2.04	16.3	7.7	1.07	18.7	20.7	<5
9/01/2018	2	4.8	<0.1	7.25	16.4	2.7	7.5	<5
30/01/2018	<2	8.66	<0.1	7.6	14.1	1.7	10.4	7
16/02/2018	3	10.3	<0.1	7.6	8.78	2.7	13	6
22/02/2018	<2	6.29	<0.1	7.5	9.25	2.1	8.4	7
20/03/2018	<2	7.04	<0.1	7.3	13	1.7	8.7	5
10/04/2018	4	17.7	<0.1	7.7	18.2	1.4	19.1	<5
24/04/2018	3	6.78	<0.1	7.7	15.9	2.4	9.2	8
17/05/2018	3	19	<0.1	7.5	18.5	3.2	22.2	<5
7/06/2018	4	19.6	<0.1	7.4	13.4	3.7	23.3	<5
29/06/2018	<2	24	<0.1	7.7	13.4	3.2	27.2	<5
10/07/2018	3	11	<0.1	7.7	16.8	2.1	11.1	9
8/08/2018	6	4.01	4.4	7.5	15.1	7	11	12
30/08/2018	10	4.53	5.6	7.6	18.9	11.3	15.8	9
24/09/2018	221	8.94	<0.1		11.2	1.8	10.7	22
19/10/2018	5	2.58	<0.1	8.8	12	2.6	5.2	10
16/11/2018	<2	2.43	<0.1	7.8	10.0	1.4	3.8	<5
12/12/2018	7	1.77	0.9	8.0	8.5	4.4	6.2	8
9/01/2019	2	6.89	<0.1	8.3	16.6	2.2	9.1	5
31/01/2019	5	4.05	1.5	7.7	19.8	3.2	7.2	8
22/02/2019	3	3.52	<0.1	7.6	12.0	2.9	6.4	10
13/03/2019	16	2.21	<0.1	7.5	9.5	1.7	3.9	<5
5/04/2019	<2	20.00	<0.1	7.5	12.9	4.2	24.2	<5
2/05/2019	35	37.30	<0.1	7.6	18.0	3.5	40.8	<5
15/05/2019	<2	19.00	<0.1	7.6	12.4	3.2	22.2	11
14/06/2019	<2	7.27	<0.1	7.6	10.5	3.1	10.4	11

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MP1 - Monthly Sampling date	BOD mg/L	Nitrate mg/L	Amm-N mg/L	pH	Phosphorus mg/L	TKN mg/L	TN mg/L	TSS mg/L
5/07/2019	<2	14.20	<0.1	7.8	8.7	5.6	19.8	<5
26/07/2019	2	9.20	<0.1	7.6	6.4	2.5	9.2	6
15/08/2019	3	6.66	<0.1	7.7	2.4	2.9	9.6	14
10/09/2019	3	7.78	<0.1	7.8	2.1	4.0	11.8	<5
3/10/2019	7	2.72	<0.1	8.1	9.2	3.4	6.1	14
25/10/2019	16	4.66	<0.1	7.5	20.7	5.6	10.3	26
14/11/2019	4	12.80	<0.1	7.3	29.2	4.9	17.7	13
29/11/2019	5	9.93	<0.1	7.6	15.0	2.9	12.8	13
10/12/2019	10	4.73	<0.1	8.4	8.7	4.3	4.8	48
9/01/2020	22	21.80	<0.1	7.9	18.5	5.0	21.8	26
3/02/2020	< 2	3.95	<0.1	8.5	10.0	4.2	4.1	28
19/03/2020	12	4.14	<0.1	7.3	13.0	3.0	4.2	12
9/04/2020	< 2	18.40	<0.1	7.2	13.2	4.0	18.5	19
22/05/2020	4	6.41	<0.1	7.5	6.8	2.9	6.5	17
12/06/2020	2	8.54	<0.1	7.5	14.6	3.2	9.0	< 5
10/07/2020	< 2	5.44	<0.1	7.6	8.8	2.5	5.5	14
19/08/2020	4	4.65	<0.1	7.5	11.8	2.8	4.8	< 5
11/09/2020	2	2.94	3.1	7.2	4.8	6.5	3.1	< 5
1/10/2020	6	2.31	<0.1	7.8	9.0	5.0	2.5	24
12/11/2020	2	4.46	<0.1	7.6	12.3	3.0	4.6	7

**Note the monthly testing requirement no longer applies unless the site recommences land irrigation of treated effluent. Conditions P1.3 and P1.4 from a license variation in Oct 2020.**