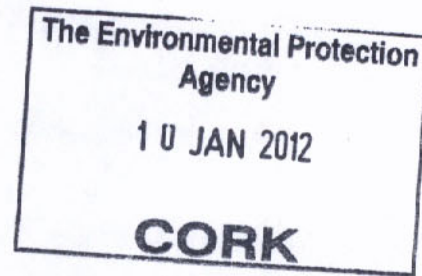




Pfizer Nutritionals Ireland Limited  
T/A Wyeth Nutritionals Ireland  
Askeaton  
Co. Limerick  
Ireland  
Tel. +353 61 392168  
www.pfizer.ie



Ms. Sonja Smith  
Administration Officer,  
Office of Climate, Licensing & Resource Use,  
EPA,  
PO Box 3000,  
Johnstown Castle Estate,  
Co. wexford



IPPC Licenece Reg.: P0395-03

Date: 06 January 2012

Dear Ms. Smith,

As requested in the letter received from the Agency's Ms. Yvonne English, dated 21 December 2011, please find enclosed one signed original, one hardcopy and two copies on CD-ROM of the monthly monitoring returns, from January to December 2011, for the discharges from SW1 monitoring point on our site.

Should you require any additional information please don't hesitate to contact me by phone at 061 601 307 or by email at [brian.shiel@pfizer.com](mailto:brian.shiel@pfizer.com).

Yours sincerely,

Brian Shiel  
EHS lead

Encl./ One signed original, one hardcopy and two copies on CD-ROM of the monthly monitoring returns, from Jan. – Dec. 2011, for the discharges from SW1 monitoring point.

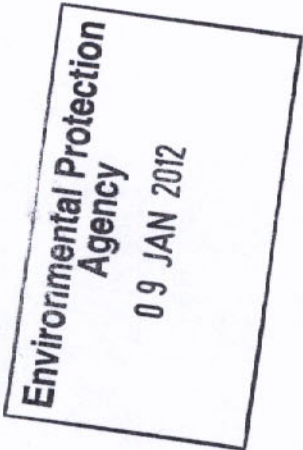
Wyeth Nutritionals Ireland is a business name of Pfizer Nutritionals Ireland Limited  
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Registered Office: Operations Support Group, Ringaskiddy, Co. Cork  
Directors: Peter Duffy, Paul Duffy  
Secretary: Peter Duffy

**EMISSIONS TO WATER MONITORING RESULTS: January 2011**

INTERPRETATION: (Page 7 of 578)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling shall not exceed the ELV. No flow, temp., slurry, calculated, shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.

Freq./L. Sch. 2 (M) : Lic. ELV / Sch. 2 (I) :	Continuous 29000m <sup>3</sup>	Continuous 6-9	Daily	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Weekly	Weekly (Mass Value)	Weekly	Weekly (Mass Value)	TOXICITY	
DATE:	Volume (max. 120m <sup>3</sup> /hr)	pH	C.O.D. mg/l	B.O.D. mg/l	B.O.D. kg/day	SUSP SOLIDS mg/l	SUSP SOLIDS kg/day	Nitrates (as N) mg/l	Ammonia (as N) mg/l	Ammonia (as N) kg/day	Total Phosphorus (as P) mg/l	Total Phosphorus (as P) kg/day	Total Nitrogen (as N) mg/l	Total Nitrogen (as N) kg/day	O.F.G. mg/l	O.F.G. kg/day	TOXICITY TU		
Week 53																			
01-Jan-11	N/D	7.35	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	
02-Jan-11	2701	7.72	30	7.4	19.83	21	50.72	0.1	4	10.80	0.24	0.568	N/D	15	42	15	42	5	
Week 1																			
03-Jan-11	2701	7.71	30	22.0	59.42	18	48.82	0.2	3	8.10	0.23	0.621	N/D	N/D	N/D	N/D	N/D	N/D	
04-Jan-11	1672	7.71	29	13.1	21.04	13	30.10	0.4	1	5.02	0.27	0.481	N/D	5.6	13.3	N/D	N/D	N/D	
05-Jan-11	2377	7.77	40	12.9	30.69	18	40.70	0.6	1	2.38	0.18	0.380	N/D	N/D	N/D	N/D	N/D	N/D	
06-Jan-11	1850	7.76	39	12.1	22.31	22	31.60	0.1	1	1.65	0.28	0.337	N/D	N/D	N/D	N/D	N/D	N/D	
07-Jan-11	1663	7.75	51	16.1	30.10	19	36.60	0.1	1	1.66	0.28	0.466	N/D	N/D	N/D	N/D	N/D	N/D	
08-Jan-11	2121	7.62	25	15.9	33.81	17	26.50	1.0	1	2.12	0.30	0.636	N/D	N/D	N/D	N/D	N/D	N/D	
09-Jan-11	1758	7.88	27	6.5	11.46	15	20.50	1.0	1	1.76	0.23	0.404	N/D	N/D	N/D	N/D	N/D	N/D	
Week 2																			
10-Jan-11	1870	7.51	66	21.2	39.59	11	20.67	0.1	1	1.87	0.16	0.299	N/D	N/D	N/D	N/D	N/D	N/D	
11-Jan-11	1870	7.36	31	21.8	40.84	25	46.75	0.1	3	5.61	0.30	0.661	N/D	5.4	10.6	N/D	N/D	N/D	
12-Jan-11	1989	7.75	33	10.5	20.80	22	43.78	0.1	2	3.98	0.28	0.557	N/D	N/D	N/D	N/D	N/D	N/D	
13-Jan-11	2164	7.66	33	18.5	38.94	18	38.77	0.2	2	4.31	0.33	0.711	N/D	N/D	N/D	N/D	N/D	N/D	
14-Jan-11	2055	7.82	62	13.3	27.29	28	57.54	0.2	2	4.11	0.39	0.801	N/D	N/D	N/D	N/D	N/D	N/D	
15-Jan-11	2330	7.67	30	38.8	90.07	24	55.88	0.4	6	13.02	0.45	1.044	N/D	N/D	N/D	N/D	N/D	N/D	
16-Jan-11	2374	7.77	30	31.7	75.21	12	28.49	0.1	2	18.99	0.25	0.594	N/D	N/D	N/D	N/D	N/D	N/D	
Week 3																			
17-Jan-11	2026	7.68	33	9.4	19.13	12	24.31	0.1	2	12.16	0.21	0.425	N/D	7.6	15.4	N/D	N/D	N/D	
18-Jan-11	2067	7.88	35	15.4	31.72	17	34.97	0.1	8	2.06	0.27	0.555	N/D	N/D	N/D	N/D	N/D	N/D	
19-Jan-11	1744	7.27	44	13.6	21.94	25	43.00	0.3	1	1.74	0.29	0.506	N/D	N/D	N/D	N/D	N/D	N/D	
20-Jan-11	1750	7.95	31	12.4	21.70	14	24.50	0.1	1	1.75	0.17	0.210	N/D	N/D	N/D	N/D	N/D	N/D	
21-Jan-11	2126	7.86	28	12.3	26.11	26	55.28	0.3	2	1.95	0.16	0.383	N/D	N/D	N/D	N/D	N/D	N/D	
22-Jan-11	1834	7.85	19	14.5	28.12	14	27.08	0.1	1	1.46	0.28	0.503	N/D	N/D	N/D	N/D	N/D	N/D	
23-Jan-11	2701	7.88	24	6.6	17.83	11	29.71	0.2	2	5.40	0.15	0.405	N/D	3.4	9.2	N/D	N/D	N/D	
Week 4																			
24-Jan-11	2249	7.64	26	16.0	36.88	9	30.24	0.3	2	4.50	0.20	0.450	N/D	N/D	N/D	N/D	N/D	N/D	
25-Jan-11	1886	8.02	51	19.4	36.64	17	32.06	0.1	1	1.89	0.10	0.189	N/D	N/D	N/D	N/D	N/D	N/D	
26-Jan-11	2072	8.05	25	17.6	36.38	17	20.72	0.1	1	2.07	0.30	0.622	N/D	N/D	N/D	N/D	N/D	N/D	
27-Jan-11	2132	7.95	43	23.6	50.23	19	40.51	0.4	1	2.13	0.41	0.874	N/D	N/D	N/D	N/D	N/D	N/D	
28-Jan-11	2143	7.83	42	18.2	41.15	21	45.00	0.1	4	8.57	0.47	1.007	N/D	N/D	N/D	N/D	N/D	N/D	
29-Jan-11	1954	7.81	33	15.8	34.15	10	19.54	0.1	4	7.82	0.13	0.254	N/D	N/D	N/D	N/D	N/D	N/D	
30-Jan-11	1792	7.94	41	8.6	17.13	11	19.71	0.4	3	5.38	0.16	0.287	N/D	N/D	N/D	N/D	N/D	N/D	
Week 5																			
31-Jan-11	1642	8.00	26	10.0	16.40	12	19.70	0.5	2	3.28	0.18	0.296	N/D	N/D	N/D	N/D	N/D	N/D	

Date of results = date of the start of the 24-hour flow proportional composite sample (6:00 AM) N/D = No discharge



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**EMISSIONS TO WATER MONITORING RESULTS: February 2011**

INTERPRETATION: (Page 7 of 578)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed the limit value. (3) For parameters other than pH, temp. and flow, B.O.D. of 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling shall not exceed the E.L.V. No result, similarly calculated, shall exceed 1.2 times the E.L.V. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the E.L.V.

Freq. / Sdn. 2 (M) / Lic. E.L.V. / Sdn. 2 (I) :	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	TOXICITY		
DATE:	2800m <sup>3</sup>	6-9	-	40	100	50	140	-	10	28	2	5.6	15	42	15	42	15	42	15	42	5	5	5	5	5			
<b>Week 5 contd.</b>																												
01-Feb-11	1901	7.85	29	26.0	49.35	12	22.81	0.2	2	0.10	0.31	0.589																
02-Feb-11	2112	7.85	43	20.2	42.62	23	48.58	0.2	1	2.11	0.18	0.380																
03-Feb-11	2041	7.90	43	17.9	36.57	22	44.90	0.1	1	2.04	0.28	0.571																
04-Feb-11	1632	7.82	39	16.1	28.24	13	21.22	0.3	2	3.26	0.28	0.424																
05-Feb-11	2073	7.75	50	6.9	14.26	7	4.51	0.2	2	4.15	0.24	0.290																
06-Feb-11	2283	7.84	40	30.4	69.40	4	14.51	0.3	2	4.57	0.16	0.365																
<b>Week 6</b>																												
07-Feb-11	2082	7.85	32	30.0	62.46	16	33.37	0.2	6	12.49	0.26	0.541																
08-Feb-11	2103	7.94	34	27.6	57.86	11	23.43	0.2	3	6.31	0.20	0.421																
09-Feb-11	1678	8.01	37	7.4	12.38	17	28.53	0.3	4	6.71	0.13	0.218																
10-Feb-11	2323	8.03	31	13.9	32.24	9	20.91	0.2	1	2.32	0.21	0.488																
11-Feb-11	1938	7.94	38	34.1	66.14	16	31.01	0.4	4	7.75	0.46	0.891																
12-Feb-11	1731	7.83	32	35.8	62.00	13	22.50	0.2	4	6.92	0.32	0.554																
13-Feb-11	1624	8.06	30	20.6	33.52	11	17.88	0.2	8	12.99	0.28	0.455																
<b>Week 7</b>																												
14-Feb-11	985	8.09	45	16.3	16.04	18	18.72	0.2	8	7.88	0.35	0.345																
15-Feb-11	2401	7.70	28	15.0	35.82	19	45.62	0.1	10	24.01	0.25	0.600																
16-Feb-11	2423	7.89	31	29.7	71.87	13	31.50	0.3	3	7.27	0.19	0.460																
17-Feb-11	2433	7.79	41	13.8	33.62	21	51.08	0.1	2	2.43	0.26	0.633																
18-Feb-11	2599	7.46	26	16.3	42.47	32	83.17	0.3	3	2.00	0.40	1.040																
19-Feb-11	1980	7.80	29	15.2	30.10	22	43.56	0.2	1	5.94	0.37	0.733																
20-Feb-11	1754	7.96	44	22.1	38.76	14	24.56	0.2	3	5.26	0.28	0.491																
<b>Week 8</b>																												
21-Feb-11	1764	7.92	44	26.0	45.89	25	44.10	0.2	1	2.76	0.33	0.582																
22-Feb-11	1904	7.96	42	22.7	43.14	26	48.50	0.2	3	5.76	0.26	0.485																
23-Feb-11	1378	8.07	51	27.9	38.53	24	33.10	0.3	1	1.38	0.42	0.579																
24-Feb-11	2202	7.84	53	37.1	81.65	16	39.04	0.1	4	8.81	0.38	0.837																
25-Feb-11	1527	7.86	60	ND	ND	34	51.92	0.3	2	3.05	1.79	2.733																
26-Feb-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND															
27-Feb-11	1338	8.08	46	35.3	47.26	35	46.53	0.6	4	5.36	0.43	0.575																
<b>Week 9</b>																												
28-Feb-11	2701	7.75	73	47.0	126.95	29	78.33	0.2	7	18.81	0.45	1.215																

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)

ND = No discharge

ND = No discharge

ND = No discharge

ND = No discharge

ND = No discharge

ND = No discharge

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**EMISSIONS TO WATER MONITORING RESULTS: March 2011**

INTERPRETATION: (Page 7 of 678)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, BOD of 10 consecutive results, calculated as daily mass conc. or mass emission values on the basis of four proportional composite sampling shall not exceed the E.L.V. No nitrate, ammonia, nitrite, nitrous oxide, shall exceed 1.2 times the E.L.V. (4) For parameters other than pH, temp., and flow, no grab sample value shall exceed 1.2 times the E.L.V.

DATE:	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	TOXICITY
Lic. E.L.V. Sec. 2 (ii) :	2900m <sup>3</sup>	6-9	-	40	100	50	140	-	10	28	2	5.6	15	42	15	42	5	
<b>Week 9 cont.</b>																		
01-Mar-11	1863	7.87	48	39.5	73.59	28	57.16	0.4	3	5.50	0.32	0.566	9.0	14.5	<10			
02-Mar-11	1610	7.86	58	36.2	58.28	33	53.13	0.3	6	9.00	0.30	0.483						
03-Mar-11	2065	7.84	39	33.1	68.27	27	55.78	1.1	4	8.28	0.33	0.681						
04-Mar-11	2492	7.80	41	38.0	97.19	22	54.62	0.2	3	7.48	0.40	0.697						
05-Mar-11	2254	7.54	40	29.6	66.63	20	45.08	0.2	1	2.25	0.36	0.811						
06-Mar-11	2352	7.70	45	38.7	90.93	41	67.43	0.2	1	2.35	0.31	0.729						
<b>Week 10</b>																		
07-Mar-11	1047	7.91	37	33.4	34.95	36	37.69	0.1	3	3.14	0.27	0.283						
08-Mar-11	1437	8.03	33	13.8	19.80	27	28.69	0.2	5	7.19	0.28	0.402	7.9	11.3	<10			
09-Mar-11	2093	7.69	30	26.2	54.88	23	48.14	0.3	1	2.09	0.15	0.314						
10-Mar-11	2388	7.78	41	21.6	51.84	9	21.56	0.1	1	2.40	0.28	0.671						
11-Mar-11	2176	7.63	38	28.0	60.97	21	45.70	0.2	1	2.18	0.23	0.500						
12-Mar-11	1998	8.04	39	21.0	41.96	16	31.97	0.1	1	2.00	0.32	0.639						
13-Mar-11	1652	8.18	33	21.0	34.61	19	31.38	0.1	1	1.65	0.42	0.694	4.1	6.7	<10			
<b>Week 11</b>																		
14-Mar-11	1889	7.88	31	23.8	44.96	18	34.00	0.3	2	3.78	0.25	0.472						
15-Mar-11	1480	7.97	42	12.0	17.73	20	29.60	0.1	5	7.40	0.26	0.370						
16-Mar-11	1379	7.74	44	33.4	46.09	23	31.72	0.2	1	5.52	1.08	1.488						
17-Mar-11	2277	7.96	36	19.1	43.58	24	54.65	0.5	1	2.26	0.35	0.797						
18-Mar-11	1989	7.74	22	11.7	23.25	32	63.65	0.5	1	1.99	0.12	0.289						
19-Mar-11	1725	7.76	14	16.5	28.43	12	20.70	0.1	1	1.73	0.20	0.345						
20-Mar-11	1438	8.04	34	19.3	27.81	19	27.32	0.2	1	2.88	0.24	0.346	5.3	7.5	<10			
<b>Week 12</b>																		
21-Mar-11	1466	8.02	41	19.0	28.42	17	25.43	0.2	1	1.60	0.22	0.326						
22-Mar-11	1371	7.87	32	13.2	18.10	24	31.70	0.1	1	1.82	0.32	0.423						
23-Mar-11	1864	7.98	36	12.2	22.67	25	46.60	0.1	1	1.84	0.34	0.634						
24-Mar-11	1641	8.05	34	17.1	28.00	17	27.90	0.1	1	1.64	0.24	0.364						
25-Mar-11	1781	7.97	32	17.8	31.35	23	40.88	0.1	1	1.78	0.26	0.469						
26-Mar-11	1342	8.08	66	9.7	13.02	6	8.09	0.2	1	1.34	0.09	0.121						
27-Mar-11	1700	8.08	26	6.1	10.70	16	28.16	0.1	1	1.76	0.16	0.282						
<b>Week 13</b>																		
28-Mar-11	1657	8.08	34	10.0	18.67	21	41.10	0.1	4	7.83	0.17	0.333	4.9	9.6	<10			
29-Mar-11	2169	8.04	26	34.3	74.34	18	38.09	0.1	5	10.83	0.27	0.585						
30-Mar-11	1401	7.97	27	26.7	51.36	14	19.61	0.2	10	14.01	0.15	0.210						
31-Mar-11	1646	8.10	44	26.7	43.95	16	26.34	0.1	4	6.58	0.14	0.230						

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)

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**EMISSIONS TO WATER MONITORING RESULTS: April 2011**

INTERPRETATION: (Page 7 of 678)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit.; (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For Parameters other than pH, temp. and flow, 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling shall not exceed the E.L.V. No hydroxide, similarly calculated, shall exceed 1.2 times the E.L.V. (4) For Parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the E.L.V.

DATE	Continuous 2800m <sup>3</sup>	Continuous 6.9	Daily	Daily	(Mass Value) 100	Daily	(Mass Value) 140	Daily	Daily	(Mass Value) 28	Daily	(Mass Value) 5.6	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	TOXICITY TU
Lic. E.L.V / Sch. 2 (b) :	Continuous 2800m <sup>3</sup>	Continuous 6.9	Daily	Daily	(Mass Value) 100	Daily	(Mass Value) 140	Daily	Daily	(Mass Value) 28	Daily	(Mass Value) 5.6	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	TOXICITY TU
Week 13 contd.																			
01-Apr-11	1263	8.16	27	24.7	31.20	11	13.89	0.2	5	6.32	0.14	0.177							
02-Apr-11	1734	8.10	24	12.5	21.69	5	8.67	0.2	6	10.40	0.12	0.208							
03-Apr-11	2140	8.12	35	36.4	77.90	17	36.38	0.3	6	12.84	0.35	0.746							
Week 14																			
04-Apr-11	1910	8.15	42	36.6	69.98	8	15.28	0.2	10	19.10	0.28	0.525							
05-Apr-11	2104	8.16	35	23.5	48.48	19	23.98	0.3	6	12.62	0.18	0.379							
06-Apr-11	1614	8.20	24	20.4	32.53	20	14.98	0.2	1	1.61	0.18	0.291							
07-Apr-11	1445	8.19	23	13.8	19.17	3	4.34	0.2	3	4.94	0.17	0.346							
08-Apr-11	1760	8.04	23	17.8	31.36	8	14.87	0.5	4	7.04	0.22	0.387							
09-Apr-11	1831	7.85	28	37.7	72.72	16	30.68	0.5	4	7.72	0.20	0.366							
10-Apr-11	1786	8.13	23	12.8	22.90	17	30.38	0.5	1	1.79	0.13	0.232							
Week 15																			
11-Apr-11	1669	8.15	22	12.3	20.50	8	13.35	0.2	1	1.67	0.13	0.217							
12-Apr-11	1506	7.99	28	10.9	17.46	14	22.34	0.5	1	1.60	0.15	0.238							
13-Apr-11	1768	8.37	28	15.8	27.90	6	10.61	0.2	1	1.77	0.21	0.371							
14-Apr-11	1891	7.98	33	16.3	30.90	10	18.91	0.2	1	1.89	0.18	0.340							
15-Apr-11	1718	8.05	14	6.6	11.29	40	68.72	0.3	1	1.72	0.20	0.344							
16-Apr-11	1855	8.03	30	12.3	20.29	24	34.72	0.3	1	1.66	0.31	0.513							
17-Apr-11	1789	8.19	19	7.9	14.13	12	21.47	0.3	1	3.58	0.30	0.537							
Week 16																			
18-Apr-11	1960	8.21	38	10.8	14.69	16	21.76	0.1	1	1.35	0.31	0.422							
19-Apr-11	1319	8.24	36	18.6	24.48	20	28.38	0.1	1	1.32	0.30	0.396							
20-Apr-11	2153	8.11	32	15.6	33.67	13	27.99	0.2	1	1.15	0.49	0.732							
21-Apr-11	1739	8.13	32	14.5	25.15	15	26.09	0.1	1	1.14	0.44	0.852							
22-Apr-11	1455	7.93	40	11.6	17.20	9	13.10	0.1	1	1.85	0.63	0.917							
23-Apr-11	1651	8.00	30	16.5	27.31	15	24.77	0.2	1	1.67	0.81	1.337							
24-Apr-11	1771	8.06	50	24.9	44.06	22	38.66	0.5	1	1.77	0.75	1.328							
Week 17																			
25-Apr-11	1575	8.21	38	11.0	17.33	11	17.33	0.2	1	1.58	0.54	0.851							
26-Apr-11	2218	8.40	44	17.0	37.69	27	59.81	0.3	1	2.22	0.43	0.952							
27-Apr-11	1588	8.15	48	14.6	22.75	16	28.04	0.3	1	1.66	0.20	0.312							
28-Apr-11	1453	8.31	41	15.3	22.32	18	28.19	0.3	1	1.46	0.25	0.364							
29-Apr-11	1745	8.20	26	30.2	52.70	26	43.37	0.3	3	5.24	0.21	0.366							
30-Apr-11	1699	8.20	29	14.8	25.11	15	23.49	0.4	1	1.70	0.25	0.425							

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)

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EMISSIONS TO WATER MONITORING RESULTS: May 2011

INTERPRETATION: (Page 7 of 578)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, B.O.D. or 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling shall not exceed the E.L.V. No other result, singly calculated, shall exceed 1.2 times the E.L.V. (4) For parameters other than pH, temp., and flow, no grab sample value shall exceed 1.2 times the E.L.V.

Flow / Sd. 2 (lit) : Lic. E.L.V / Sd. 2 (l) :	Continuous 2900m <sup>3</sup>	Continuous 6-9	Daily	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Daily	Daily (Mass Value)	Weekly	Weekly (Mass Value)	Weekly	Weekly (Mass Value)	Weekly	Weekly (Mass Value)	TOXICITY TU
Week 17 contd 15-May-11	1570	8.26	29	14.8	23.27	50	140	0.3	10	28	2	5.6	15	42	15	42	<10	42	5			
Week 18 02-May-11	1088	8.47	40	20.1	21.83	29	32.97	0.2	1	1.57	0.24	0.377										
03-May-11	1547	8.26	37	16.3	25.15	19	20.39	0.3	1	1.55	0.55	0.586										
04-May-11	1396	8.24	30	22.7	31.63	6	6.38	0.2	3	4.19	0.39	0.405										
05-May-11	1582	8.23	39	14.2	22.40	20	31.64	0.4	1	1.58	0.23	0.264	1.3	1.8								
06-May-11	1480	8.18	33	21.3	31.88	21	31.88	0.4	1	1.48	0.35	0.316										
07-May-11	1771	8.29	34	17.7	31.31	20	35.42	0.5	1	1.77	0.28	0.498										
08-May-11	1508	8.15	27	13.0	19.56	16	24.9	0.2	1	1.51	1.21	1.828										
Week 19 09-May-11	1744	8.08	28	8.2	14.23	12	20.93	0.2	2	3.49	0.21	0.385	4.5	7.8								
10-May-11	1708	8.56	27	25.7	43.86	12	20.50	0.2	3	5.12	0.16	0.273										
11-May-11	1861	7.91	31	13.2	24.64	14	26.05	0.2	1	1.86	0.11	0.205										
12-May-11	2306	8.17	40	10.3	23.71	10	23.06	0.2	1	2.31	0.17	0.302										
13-May-11	2069	7.73	9	9.1	18.75	12	24.83	0.2	1	2.07	0.15	0.310										
14-May-11	1537	7.90	22	6.7	10.22	14	21.52	0.2	1	1.54	0.13	0.200										
15-May-11	1847	8.01	40	13.6	25.12	26	48.02	0.2	1	1.85	0.35	0.646										
Week 20 16-May-11	2404	8.06	33	11.4	27.41	13	31.25	0.2	2	7.21	0.14	0.337	2.0	4.8								
17-May-11	1990	7.98	38	16.8	33.39	17	33.83	0.1	1	1.99	0.40	0.796										
18-May-11	1564	8.08	36	10.1	15.77	8	12.51	0.2	1	1.56	0.21	0.328										
19-May-11	1790	8.39	51	11.1	19.80	17	30.43	0.1	1	3.58	0.21	0.376										
20-May-11	1600	7.88	40	14.1	22.53	22	35.20	0.3	1	1.60	0.42	0.872										
21-May-11	1734	7.77	50	13.7	23.72	6	10.40	0.1	2	3.47	0.10	0.173										
22-May-11	1884	8.00	29	8.1	15.30	9	16.66	0.1	1	1.88	0.14	0.294										
Week 21 23-May-11	1751	7.91	28	12.0	21.01	33	57.78	0.1	1	1.75	0.13	0.228	3.1	5.4								
24-May-11	1840	8.00	23	15.1	22.08	14	26.78	0.2	1	1.84	0.06	0.110										
25-May-11	1850	7.87	24	15.1	20.67	11	21.58	0.2	1	1.86	0.07	0.137										
26-May-11	1759	8.07	28	11.3	19.91	11	19.35	0.1	1	1.78	0.18	0.317										
27-May-11	1655	7.97	52	23.1	38.30	8	13.24	0.1	0.5	1.66	0.18	0.265										
28-May-11	1885	8.02	12	8.2	15.45	7	13.27	0.2	1	1.85	0.16	0.303										
29-May-11	1687	7.99	22	9.2	15.45	11	18.58	0.1	1	1.69	0.12	0.202										
Week 22 30-May-11	1676	7.90	24	6.4	10.73	10	16.76	0.2	5	8.38	0.12	0.201										
31-May-11	1621	7.88	24	13.2	21.96	16	25.94	0.2	1	1.92	0.15	0.243										

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)



**EMISSIONS TO WATER MONITORING RESULTS: June 2011**

INTERPRETATION: (Page 7 of 678)  
 (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Continuous monitoring: (3) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, no grab value shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab value shall exceed 1.2 times the ELV on the basis of flow proportional composite sampling shall not exceed the ELV. No indiv./result, similarly calculated, shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab value shall exceed 1.2 times the ELV.

Unit	Volume (max. 120m <sup>3</sup> /hr)	pH	C.O.D.	B.O.D.	B.O.D.	SUSP. SOLIDS	SUSP. SOLIDS	Nitrate (as N)	Ammonia (as N)	Ammonia (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Nitrogen (as N)	Total Nitrogen (as N)	O.F.G.	O.F.G.	TOXICITY		
Units	m <sup>3</sup>	0-14	mg/l	mg/l	kg/day	mg/l	kg/day	mg/l	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	TU		
Frequency / Sqr. 2 (hr) : Lic. ELV / Sqr. 2 (hr) :	Continuous 2800m <sup>3</sup>	Continuous 6-9	Daily	Daily	(Mass Value) 100	Daily	(Mass Value) 140	Daily	Daily	(Mass Value) 28	Daily	(Mass Value) 5.6	Weekly	(Mass Value) 15	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	Annually 5
Date																			
<b>Week 22 cont'd.</b>																			
01-Jun-11	1861	7.97	22	14.9	29.26	12	23.53	0.1	1	1.96	0.11	0.216							
02-Jun-11	1801	7.99	23	4.1	7.39	3	3.88	0.1	2	3.72	0.10	0.188							
03-Jun-11	1818	7.72	25	18.9	34.40	19	34.54	0.3	1	1.82	0.32	0.882							
04-Jun-11	1474	8.08	37	11.0	16.18	11	16.21	0.3	1	1.47	0.25	0.589							
05-Jun-11	1807	7.89	19	0.9	1.71	14	16.21	0.3	1	1.90	0.25	0.474							
<b>Week 23</b>																			
06-Jun-11	1674	8.10	27	5.1	8.47	14	23.61	0.2	1	1.87	0.23	0.385							
07-Jun-11	1601	8.12	34	2.4	3.67	11	12.61	0.3	2	3.20	0.18	0.288							
08-Jun-11	1727	8.07	20	15.6	26.88	7	12.61	0.2	2	3.45	0.15	0.258							
09-Jun-11	2109	8.16	20	8.5	17.84	16	33.14	0.2	1	2.11	0.20	0.422							
10-Jun-11	1651	7.85	34	6.7	11.13	34	56.13	0.7	1	1.65	0.13	0.215							
11-Jun-11	2200	7.81	24	12.8	28.07	12	26.40	0.5	1	2.20	0.05	0.110							
12-Jun-11	2028	8.03	40	23.3	47.25	25	50.70	0.5	1	2.03	0.22	0.446							
<b>Week 24</b>																			
13-Jun-11	1644	8.09	21	31.8	52.28	15	24.66	0.5	1	1.64	0.27	0.444							
14-Jun-11	1586	8.08	26	3.0*	4.76	24	36.06	0.1	1	1.59	0.19	0.301							
15-Jun-11	1586	8.01	26	4.0*	6.34	15	23.79	0.2	2	3.17	0.11	0.174							
16-Jun-11	2150	8.06	28	6.0*	12.90	22	47.30	0.2	1	2.15	0.20	0.450							
17-Jun-11	1587	7.98	26	13.9	22.12	15	23.81	0.2	1	3.17	0.17	0.270							
18-Jun-11	2040	8.13	33	14.2	29.05	22	44.88	0.5	1	2.04	0.40	0.816							
19-Jun-11	1474	7.91	35	12.0	17.89	18	26.53	0.1	1	1.47	0.39	0.575							
<b>Week 25</b>																			
20-Jun-11	2293	7.72	40	15.2	34.44	21	47.52	0.2	1	2.26	0.23	0.520							
21-Jun-11	2392	8.03	53	21.1	50.36	25	50.55	0.2	1	3.38	0.43	1.024							
22-Jun-11	1787	8.11	59	19.5	34.78	30	53.01	0.4	1	1.76	0.36	0.643							
23-Jun-11	1785	8.00	60	13.6	24.53	29	51.77	0.4	1	1.76	0.40	0.714							
24-Jun-11	1442	7.65	61	20.0	28.81	32	46.14	0.1	1	1.44	0.38	0.548							
25-Jun-11	1556	7.63	59	34.8	54.20	25	36.80	0.2	1	1.56	0.49	0.762							
26-Jun-11	1534	8.26	48	18.4	28.23	20	30.08	0.4	1	1.53	0.43	0.660							
<b>Week 26</b>																			
27-Jun-11	1680	8.11	56	16.2	27.31	19	32.11	0.3	1	1.69	0.39	0.659							
28-Jun-11	2500	7.89	40	8.6	21.60	21	52.50	0.4	1	2.50	0.34	0.850							
29-Jun-11	1724	8.20	40	10.1	17.38	15	25.86	0.2	1	1.72	0.29	0.500							
30-Jun-11	2269	8.05	39	11.1	25.14	19	43.11	0.2	1	2.27	0.25	0.567							

Date of results - date of the start of the 24-hour flow proportional composite sample (8:00 AM)

\*Assay by contract laboratory

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EMISSIONS TO WATER MONITORING RESULTS: July 2011

INTERPRETATION: (Page 7 of 678)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit; (2) No pH value shall deviate from specified range; No temp. value shall exceed the limit value.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range; (2) No temp. value shall exceed limit value; (3) For Parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean concs. or mass emission values, on the basis of flow proportional composite sampling shall not exceed the E.L.V. No individual sampling shall exceed the E.L.V. (4) For Parameters other than pH, temp., and flow, no grab sample value shall exceed 1.2 times the E.L.V.

DATE	Continuous 2800m <sup>3</sup>	Continuous 6-9	Daily	Daily 40	Mass Value 100	Daily 50	Mass Value 140	Daily	Daily 10	Mass Value 28	Daily 2	Mass Value 5.6	Weekly 15	Mass Value 42	Weekly 15	Mass Value 42	TOXICITY TU
Week 26 contd.																	
01-Jul-11	2367	8.25	68	37.3	88.36	38	89.66	0.3	1	2.37	1.31	3.101					
02-Jul-11	1694	8.14	50	17.5	29.44	15	25.28	0.4	1	1.88	0.37	0.623					
03-Jul-11	1382	8.12	34	10.8	14.44	9	12.26	0.2	1	1.36	0.22	0.300					
Week 27																	
04-Jul-11	1864	7.95	32	11.9	23.17	17	33.22	0.1	1	1.95	0.28	0.647	2.6				
05-Jul-11	2304	8.21	38	18.9	20.46	20	39.46	0.1	1	2.80	0.22	0.607					
06-Jul-11	2146	8.02	32	13.4	28.67	16	34.16	0.2	1	2.15	0.31	0.655					
07-Jul-11	2006	8.02	29	7.8	15.73	25	50.18	0.2	1	2.07	0.2	0.602					
08-Jul-11	2072	7.75	34	17.2	35.56	30	70.65	0.4	1	2.35	0.23	0.640					
09-Jul-11	2347	7.99	49	16.8	39.48	30	70.65	0.4	1	2.35	0.23	0.640					
10-Jul-11	2072	8.07	39	16.8	39.48	20	41.44	0.3	1	2.07	0.28	0.580					
Week 28																	
11-Jul-11	1878	8.13	21	8.7	16.34	17	31.93	0.3	1	1.88	0.17	0.319	2.7				
12-Jul-11	1846	8.23	29	13.2	24.23	22	40.51	0.3	1	1.85	0.2	0.360					
13-Jul-11	1806	8.19	10	5.9	10.60	8	14.45	0.3	1	1.81	0.12	0.217					
14-Jul-11	1917	8.18	46	11.6	22.28	16	30.67	0.3	1	1.92	0.13	0.248					
15-Jul-11	2140	8.18	55	16.4	35.18	19	40.66	0.4	1	2.14	0.43	0.820					
16-Jul-11	2193	7.92	12	6.5	14.34	13	28.51	0.3	1	2.19	0.2	0.439					
17-Jul-11	1867	8.37	30	13.0	24.33	16	29.87	0.1	1	1.87	0.26	0.485					
Week 29																	
18-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
19-Jul-11	363	8.13	45	17.7	6.43	26	9.44	0.3	N/D	0.36	0.31	0.113					
20-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
21-Jul-11	890	8.51	60	13.3	11.46	5	4.30	0.3	N/D	0.86	0.15	0.230					
22-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
23-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
24-Jul-11	7	8.73	16	9.9	0.67	27	0.19	0.2	1	0.01	0.36	0.003					
Week 30																	
25-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
26-Jul-11	678	8.32	30	9.8	6.63	22	14.62	0.1	N/D	0.68	0.29	0.197					
27-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
28-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
29-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
30-Jul-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D					
31-Jul-11	708	8.07	10	4.2	2.88	18	12.74	0.01	N/D	0.71	0.39	0.276					

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM) N/D = No discharge

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**EMISSIONS TO WATER MONITORING RESULTS: August 2011**

**INTERPRETATION:** (Page 7 of 878)  
 (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.  
 on the basis of flow proportional composite sampling shall not exceed the ELV. No indiv./result. similarly calculated, shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.

Unit	Volume (max. 126m <sup>3</sup> /hr)	pH	C.O.D.	B.O.D.	B.O.D.	SUSP. SOLIDS	SUSP. SOLIDS	Nitrates (as N)	Ammonia (as N)	Ammonia (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Nitrogen (as N)	Total Nitrogen (as N)	O.F.G.	O.F.G.	TOXICITY TU
Units	m <sup>3</sup>	0-14	mg/l	mg/l	kg/day	mg/l	kg/day	mg/l	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	5
Lic. ELV / Sect. 2 (b) :	2600m <sup>3</sup>	6-9	-	40	100	50	140	-	10	28	2	5.6	15	42	15	42	5
<b>Week 31</b>																	
01-Aug-11	1447	7.87	30	6.7	6.69	25	36.18	0.2	1	1.45	0.18	0.260			<10		
02-Aug-11	1427	7.96	25	10.4	14.64	20	28.54	0.1	1	1.43	0.19	0.271					
03-Aug-11	1352	7.93	29	5.2	7.00	21	29.38	0.1	1	1.35	0.18	0.243					
04-Aug-11	1685	8.26	17	4.6	7.78	26	43.81	0.2	1	1.68	0.14	0.236	2.3				
05-Aug-11	1800	7.66	23	4.9	8.33	24	43.42	0.2	1	1.81	0.19	0.244					
06-Aug-11	2465	7.99	29	6.6	18.32	30	27.95	0.2	1	2.47	0.17	0.419					
07-Aug-11	2328	8.19	26	5.0	11.04	13	30.61	0.1	1	2.33	0.17	0.396			<10		
<b>Week 32</b>																	
08-Aug-11	1711	8.10	20	6.7	11.46	24	47.00	0.1	1	1.71	0.25	0.428					
09-Aug-11	1345	8.17	28	4.9	6.56	12	16.42	0.1	1	1.35	0.22	0.296					
10-Aug-11	1642	8.11	23	10.6	17.41	10	16.42	0.1	2	3.28	0.14	0.230					
11-Aug-11	1957	8.22	22	8.7	16.95	21	41.10	0.1	1	1.95	0.20	0.274					
12-Aug-11	1665	8.18	30	9.3	15.48	13	21.65	0.2	1	1.67	0.20	0.333					
13-Aug-11	1899	8.15	30	9.1	17.28	12	22.79	0.2	1	1.90	0.16	0.304					
14-Aug-11	2195	8.68	36	12.8	27.97	31	67.74	0.2	1	2.19	0.30	0.656			<10		
<b>Week 33</b>																	
15-Aug-11	2112	8.23	20	4.7	9.93	8	16.90	0.1	1	2.11	0.19	0.401					
16-Aug-11	1707	8.37	48	13.5	23.80	21	37.11	0.3	1	1.77	0.23	0.406	1.4				
17-Aug-11	1916	8.32	40	12.8	24.03	19	36.40	0.4	1	1.82	0.23	0.441					
18-Aug-11	2138	8.17	20	11.5	24.65	13	27.79	0.2	1	2.14	0.16	0.342					
19-Aug-11	1628	8.12	28	16.8	27.42	15	24.42	0.4	1	1.63	0.16	0.260					
20-Aug-11	1972	8.10	26	11.6	22.28	14	28.68	0.3	1	1.93	0.23	0.443					
21-Aug-11	1740	7.84	40	12.4	21.51	22	38.28	0.4	1	1.74	0.17	0.296			<10		
<b>Week 34</b>																	
22-Aug-11	1866	7.86	18	7.8	14.01	19	35.26	0.5	1	2.11	0.21	0.360	2.4				
23-Aug-11	1795	7.85	46	10.4	18.63	15	28.83	0.5	1	1.84	0.22	0.413					
24-Aug-11	2254	7.99	43	11.9	26.62	20	46.08	0.4	1	2.25	0.18	0.406					
25-Aug-11	2251	7.97	46	8.6	19.40	26	56.53	0.4	1	2.25	0.28	0.630					
26-Aug-11	2193	7.97	30	14.7	32.24	21	46.05	0.3	1	2.19	0.23	0.504					
27-Aug-11	1434	8.19	30	11.4	16.30	21	30.11	0.3	1	1.43	0.17	0.244					
28-Aug-11	1348	8.21	29	10.0	13.53	16	21.57	0.2	1	1.35	0.18	0.243			<10		
<b>Week 35</b>																	
29-Aug-11	1547	8.17	34	7.0	10.88	23	35.58	0.3	2	3.09	0.14	0.217					
30-Aug-11	1671	8.16	32	12.4	20.79	17	28.41	0.3	1	1.67	0.26	0.485	1.0				
31-Aug-11	1720	8.15	27	5.7	9.87	17	29.24	0.4	1	1.72	0.16	0.275					

Date of results - date of the start of the 24-hour flow proportional composite sample (8:00 AM)

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**EMISSIONS TO WATER MONITORING RESULTS: September 2011**

(INTERPRETATION: (Page 7 of 61/73))  
Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) Few parameters other than pH, temp. and flow. 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values, on the basis of flow proportional composite sampling shall not exceed the E.L.V. No individual, similarly calculated, shall exceed 1.2 times the E.L.V. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the E.L.V.

DATE	Flow, E.L.V. (l/s) (2) :	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	TOXICITY
Uits	m <sup>3</sup>	Continuous	Continuous	Daily	Daily	(kg/day)	Daily	(kg/day)	Daily	(kg/day)	Daily	(kg/day)	Daily	(kg/day)	Weekly	(kg/day)	Weekly	(kg/day)	TU
	(max. 120m <sup>3</sup> /h)			mg/l	mg/l		mg/l		mg/l		mg/l		mg/l						
<b>Week 35 contd.</b>																			
1879	8.04	26	12.1	24.03	16	31.66	0.2	1.98	0.14	0.277	3.1	4.2	15	7.4	15	<10			
1898	7.99	32	10.1	16.30	32	51.14	0.3	1.60	0.16	0.256									
2141	7.78	31	16.0	34.26	32	68.51	0.3	2.14	0.18	0.343									
2424	8.08	35	15.0	15.00	26	63.02	0.1	2.42	0.37	0.897									
<b>Week 36</b>																			
1200	8.12	32	12.5	12.80	27	32.40	0.2	1.20	0.25	0.300									
584	8.31	36	9.4	5.47	38	22.90	0.1	0.58	0.46	0.280									
1499	8.20	31	15.7	23.50	34	50.97	0.2	1.50	0.35	0.526									
1622	7.67	25	13.4	21.77	13	21.66	0.3	1.62	0.29	0.076									
1566	7.82	39	12.1	18.91	25	39.26	0.3	1.57	0.28	0.455									
1700	7.93	26	13.3	22.54	13	22.10	0.4	1.70	0.26	0.442									
2295	7.92	22	12.2	27.63	22	49.83	0.3	2.27	0.26	0.689	0.8	1.8							
<b>Week 37</b>																			
2801	7.80	34	14.8	37.01	25	62.53	0.2	2.50	0.28	0.700									
2170	8.04	18	11.7	25.43	18	39.06	0.4	2.17	0.18	0.391									
1652	8.16	33	11.7	19.39	15	24.78	0.4	1.65	0.14	0.231									
1390	8.26	36	12.3	17.07	22	30.58	0.2	1.39	0.17	0.236									
1631	7.97	32	20.7	33.73	15	24.47	0.2	1.63	0.15	0.245									
1405	8.05	35	19.2	26.95	14	19.87	0.3	1.41	0.20	0.281									
2251	7.82	59	35.4	79.57	26	58.53	0.3	8.00	0.35	0.788									
<b>Week 38</b>																			
1699	8.28	24	15.3	25.99	10	16.99	0.1	1.70	0.10	0.170	3.1	5.3							
1966	8.22	32	4.8	9.48	16	31.46	0.1	0.33	0.16	0.315									
1778	8.13	40	21.1	37.47	13	23.13	0.1	2	0.16	0.265									
1871	8.13	61	21.1	39.44	28	48.85	0.5	1.1	0.24	0.649									
2228	7.95	38	18.5	43.41	18	42.29	0.5	2.22	0.21	0.487									
2346	8.05	39	15.8	28.03	10	17.92	0.3	1.78	0.21	0.376									
1864	7.71	34	8.6	16.37	16	27.96	0.3	1.86	0.23	0.429									
<b>Week 39</b>																			
1592	7.94	23	10.0	15.88	14	22.29	0.3	1.59	0.21	0.334									
1748	7.91	26	7.6	13.32	14	24.47	0.1	1.75	0.22	0.365	2.1	2.8							
1362	7.95	32	9.8	13.32	22	28.96	0.1	1.36	0.17	0.232									
1837	7.80	36	8.2	16.83	24	44.09	0.1	6.51	0.25	0.659									
2044	7.77	39	8.9	18.27	30	61.37	0.3	2.04	0.40	0.818									

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)

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**EMISSIONS TO WATER MONITORING RESULTS: October 2011**

INTERPRETATION: (Page 7 of 8/10)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit.; (2) No pH value shall deviate from specified range; No temp. value shall exceed the limit value.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling shall not exceed the ELV. No non-resid. slurry calculated. Shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.

Freq. ELV/ Sch. 2 (lit) : Lic. ELV/ Sch. 2 (t) :	Continuous 2800m <sup>3</sup>	Continuous 6.9	Daily	Daily	(Mass Value) 100	Daily	(Mass Value) 140	Daily	Daily	(Mass Value) 28	Daily	(Mass Value) 5.6	Weekly	(Mass Value) 42	Weekly	(Mass Value) 42	TOXICITY
DATE:	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	TOXICITY
<b>Week 39 contd.</b>																	
01-Oct-11	2560	7.88	16	7.1	18.23	26	66.56	0.2	1	2.56	0.10	0.256					
02-Oct-11	1943	8.33	31	8.0	15.54	14	27.20	0.2	1	1.94	0.25	0.486					
<b>Week 40</b>																	
03-Oct-11	1707	8.14	20	4.3	7.34	18	30.73	0.2	1	1.71	0.15	0.256					
04-Oct-11	2111	8.24	32	8.5	17.04	39	82.33	0.2	1	2.11	0.33	0.687					
05-Oct-11	1793	8.24	36	4.9	8.64	13	3.53	0.1	2	3.53	0.23	0.405					
06-Oct-11	2269	8.10	35	6.4	10.48	22	22.02	0.2	1	2.57	0.37	0.951					
07-Oct-11	2047	7.81	33	10.4	21.37	19	38.89	0.2	1	2.03	0.04	0.082					
08-Oct-11	2012	7.84	37	12.4	24.87	7	14.86	0.4	1	2.01	0.16	0.322					
09-Oct-11	1583	8.14	37	12.0	18.00	20	31.66	0.2	1	1.58	0.09	0.142					
<b>Week 41</b>																	
10-Oct-11	1588	8.20	43	10.0	15.88	18	30.17	0.2	1	1.58	0.14	0.222					
11-Oct-11	2005	8.21	21	9.5	18.13	23	46.12	0.2	1	2.01	0.20	0.401					
12-Oct-11	1280	8.34	34	11.7	14.92	13	16.84	0.2	1	1.28	0.16	0.205					
13-Oct-11	1637	8.18	47	9.5	15.62	20	32.74	0.2	1	1.64	0.13	0.213					
14-Oct-11	1941	8.03	30	17.7	32.59	21	38.66	0.2	1	1.94	0.23	0.473					
15-Oct-11	1861	8.00	33	13.7	25.53	17	31.64	0.2	2	3.72	0.24	0.447					
16-Oct-11	1756	8.12	33	13.0	22.79	18	31.61	0.2	1	1.76	0.23	0.404					
<b>Week 42</b>																	
17-Oct-11	1853	8.09	42	12.8	23.87	34	63.00	0.2	1	1.85	0.35	0.667					
18-Oct-11	1731	8.24	33	6.6	11.46	20	34.82	0.1	1	1.73	0.14	0.242					
19-Oct-11	2173	7.81	47	9.2	20.04	22	47.81	0.3	1	2.17	0.22	0.478					
20-Oct-11	1943	7.93	39	3.5	6.80	19	36.92	0.2	1	1.94	0.47	0.913					
21-Oct-11	2066	8.09	35	18.6	38.39	24	48.58	0.2	1	2.07	0.44	0.909					
22-Oct-11	1677	8.04	49	22.0	35.83	15	25.10	0.4	2	3.89	0.29	0.485					
23-Oct-11	1275	8.07	48	18.7	23.82	18	22.95	0.1	3	3.83	0.14	0.179					
<b>Week 43</b>																	
24-Oct-11	1742	8.19	47	17.3	30.17	21	36.58	0.2	3	5.23	0.20	0.348					
25-Oct-11	1765	8.03	53	15.2	26.83	17	30.01	0.1	1	1.77	0.82	1.447					
26-Oct-11	1380	7.92	35	10.8	14.85	10	13.80	0.1	1	1.38	0.09	0.134					
27-Oct-11	1915	8.10	47	8.7	16.66	18	30.64	0.3	1	1.92	0.12	0.230					
28-Oct-11	2004	7.96	33	12.3	25.01	8	16.03	0.3	1	2.00	0.11	0.240					
29-Oct-11	2429	7.86	22	11.1	28.84	16	38.88	0.3	1	2.43	0.17	0.267					
30-Oct-11	2429	7.88	50	13.1	31.75	25	60.73	0.1	1	2.43	0.19	0.402					
<b>Week 44</b>																	
31-Oct-11	1826	8.07	60	10.1	18.41	10	18.26	0.2	1	1.83	0.16	0.202					

Date of results = date of the 24-hour flow proportional composite sample (0.00 AM)

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**EMISSIONS TO WATER MONITORING RESULTS: November 2011**

INTERPRETATION: (Page 7 of 678)  
 (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Continuous monitoring: (1) No pH value shall deviate from specified range. (2) No temp. value shall exceed the limit value. (3) For parameters other than pH, temp. and flow, B.O.D. of 10 consecutive results, calculated as daily mean conc. or mass emission values, shall exceed the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range. (2) No temp. value shall exceed the limit value. (3) For parameters other than pH, temp. and flow, B.O.D. of 10 consecutive results, calculated as daily mean conc. or mass emission values, shall exceed the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.  
 on the basis of flow proportional composite sampling shall not exceed the ELV. No flow result, similarly calculated, shall exceed 1.2 times the ELV. (4) For parameters other than pH, temp. and flow, no grab sample value shall exceed 1.2 times the ELV.

Unit	Volume (max. 125m <sup>3</sup> /hr)	pH	C.O.D. mg/l	B.O.D. mg/l	B.O.D. kg/day	SUSP. SOLIDS mg/l	SUSP. SOLIDS kg/day	Nitrates (as N) mg/l	Ammonia (as N) mg/l	Ammonia (as N) kg/day	Total Phosphorus (as P) mg/l	Total Phosphorus (as P) kg/day	Total Nitrogen (as N) mg/l	Total Nitrogen (as N) kg/day	O.F.G. mg/l	O.F.G. kg/day	TOTALITY TU
Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	Activity
2800m <sup>3</sup>	6-9	-	40	100	50	140	-	70	28	2	5.6	15	42	15	42	5	
Lic. ELV / Sch. 2 (ii) : DATE:																	
Week 44 contd.																	
01/11/2011	1788	8.02	41	6.0	10.64	18	31.82	0.5	1	1.77	0.15	0.265	3.4	5.2	<5		
02/11/2011	1526	8.06	51	8.8	13.40	9	13.73	0.2	2	1.53	0.16	0.244					
03/11/2011	2334	8.00	51	8.9	20.77	20	46.88	0.2	2	4.67	0.11	0.257					
04/11/2011	1081	7.85	54	0.5	18.66	20	30.82	0.2	1	1.88	0.18	0.367					
05/11/2011	1875	7.87	53	18.7	35.03	11	20.63	0.1	2	3.73	0.13	0.244					
06/11/2011	973	7.50	61	18.0	17.51	7	8.63	0.2	5	4.67	0.11	0.107					
Week 45																	
07/11/2011	1858	7.94	54	20.0	39.16	15	29.37	0.2	3	6.87	0.06	0.117	5.9	11.5			
08/11/2011	1531	7.96	50	13.9	21.62	11	17.96	0.2	1	1.55	0.17	0.254					
09/11/2011	1622	7.97	42	8.3	13.43	10	16.72	0.4	1	1.62	0.11	0.178					
10/11/2011	1674	8.03	52	4.9	6.14	27	45.20	0.2	1	1.67	0.28	0.468					
11/11/2011	1518	7.84	42	16.0	24.23	14	21.28	0.2	1	1.52	0.26	0.395					
12/11/2011	1953	8.04	32	13.9	27.19	9	17.58	0.3	2	3.91	0.18	0.352					
13/11/2011	1237	7.98	34	14.6	18.01	6	7.42	0.3	2	2.47	0.22	0.272					
Week 46																	
14/11/2011	1698	7.98	40	8.1	13.75	14	23.77	0.3	1	1.70	0.11	0.187	1.7	2.8			
15/11/2011	1716	8.04	30	11.7	20.04	6	10.30	0.1	2	3.43	0.23	0.395					
16/11/2011	1180	8.02	36	17.5	20.65	16	18.88	0.3	3	2.36	0.19	0.274					
17/11/2011	2088	8.12	31	15.0	31.38	14	29.25	0.2	2	2.09	0.12	0.251					
18/11/2011	1412	8.14	58	16.7	23.52	23	32.48	0.5	2	1.41	0.25	0.359					
19/11/2011	1642	7.94	41	16.0	26.21	25	41.05	0.4	4	1.64	0.27	0.443					
20/11/2011	1004	8.12	60	15.1	15.16	17	17.07	0.2	1	1.00	0.21	0.211					
Week 47																	
21/11/2011	2164	8.01	48	22.0	47.61	20	43.28	0.2	3	4.49	0.20	0.433	8.0	17.2			
22/11/2011	2068	7.90	47	23.4	48.39	16	33.08	0.3	8	16.34	0.43	0.889					
23/11/2011	1918	7.99	44	22.8	43.68	20	38.32	0.3	6	11.58	0.31	0.584					
24/11/2011	1568	7.94	54	12.1	18.67	17	26.66	0.5	5	7.94	0.28	0.436					
25/11/2011	2116	8.05	45	12.4	26.38	45	96.22	0.2	1	2.12	0.22	0.466					
26/11/2011	2004	8.05	40	16.5	33.11	10	20.04	0.1	1	2.00	0.38	0.792					
27/11/2011	1805	7.82	51	15.8	28.52	11	19.88	0.4	1	1.81	0.11	0.199					
Week 48																	
28/11/2011	1878	7.77	53	19.9	39.32	24	47.42	0.7	1	1.98	0.27	0.534	7.8	15.4			
29/11/2011	1720	7.65	107	25.0	43.23	32	55.33	0.5	1	1.73	0.21	0.363					
30/11/2011	2654	7.80	74	22.4	59.45	30	79.62	0.1	1	2.65	0.42	1.115					

Date of results = date of the start of the 24-hour flow proportional composite sample (8.00 AM)

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**EMISSIONS TO WATER MONITORING RESULTS: December 2011**

INTERPRETATION: (Page 7 of 578)  
 Continuous monitoring: (1) No flow value shall exceed the specified limit. (2) No pH value shall deviate from specified range. No temp. value shall exceed the limit value.  
 Non-continuous monitoring: (1) No pH value shall deviate from specified range (2) No temp. value shall exceed limit value. (3) For parameters other than pH, temp. and flow, 8 out of 10 consecutive results, calculated as daily mean conc. or mass emission values on the basis of flow proportional composite sampling, shall not exceed the ETV. No. indiv. result, similarly calculated, shall exceed 1.2 times the ETV. (4) For parameters other than pH, temp., and flow, no grab sample value shall exceed 1.2 times the ETV.

DATE	Flow, ETV / Sph. 2 (lit) :	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	TOXICITY
DATE	Flow, ETV / Sph. 2 (lit) :	Continuous	Continuous	Daily	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Daily	(Mass Value)	Weekly	(Mass Value)	Weekly	(Mass Value)	TOXICITY
<b>Week 48 contd.</b>																			
01-Dec-11	2700	7.75	70	17.3	40.58	27	72.80	0.3	1	2.70	0.48	1.295							
02-Dec-11	2376	7.82	58	7.9	18.65	22	52.27	0.3	1	2.38	0.43	1.022							
03-Dec-11	2501	7.74	40	20.7	51.77	16	40.02	0.2	2	5.00	0.26	0.650							
04-Dec-11	1902	7.78	02	29.7	58.27	22	43.16	0.2	4	7.85	0.39	0.785							
<b>Week 49</b>																			
05-Dec-11	1484	7.72	40	18.0	28.71	7	10.38	0.2	2	2.97	0.78	1.158							
06-Dec-11	2230	7.96	63	30.0	88.87	20	64.59	0.2	1	2.23	0.04	0.089							
07-Dec-11	1873	7.89	80	*	*	38	71.17	0.3	1	1.87	0.46	0.862							
08-Dec-11	1652	8.01	72	37.1	62.77	28	47.36	0.1	1	1.69	0.38	0.643							
09-Dec-11	1532	7.87	65	8.3	12.64	21	32.17	0.2	1	1.53	0.42	0.643							
10-Dec-11	1556	7.85	65	19.9	30.96	20	31.12	0.2	1	1.56	0.32	0.498							
11-Dec-11	1592	8.10	80	18.0	28.46	31	49.35	0.2	1	1.58	0.30	0.478							
<b>Week 50</b>																			
12-Dec-11	1880	7.77	73	14.5	27.55	28	40.14	0.2	1	1.89	0.29	0.548							
13-Dec-11	2087	7.89	47	25.7	53.68	17	35.48	0.2	1	2.09	0.27	0.563							
14-Dec-11	2500	7.88	56	23.0	57.55	21	52.50	0.2	1	2.50	0.25	0.625							
15-Dec-11	2169	7.88	37	18.0	38.09	14	30.37	0.2	1	2.17	0.23	0.489							
16-Dec-11	2004	7.91	47	18.5	37.59	19	38.65	0.2	1	2.03	0.37	0.753							
17-Dec-11	1777	7.78	57	27.9	43.54	33	58.64	0.2	1	1.78	0.44	0.782							
18-Dec-11	1651	7.83	36	2	4	17	28.07	0.2	1	1.65	0.32	0.528							
<b>Week 51</b>																			
19-Dec-11	1480	7.83	50	30.0	44.40	26	29.80	0.3	5	7.40	0.26	0.985							
20-Dec-11	1951	7.54	63	27.0	52.14	18	34.76	0.2	3	3.78	0.25	0.483							
21-Dec-11	2029	7.51	59	25.0	50.73	32	64.93	0.2	1	2.39	0.43	0.872							
22-Dec-11	1952	7.86	51	17.8	27.34	20	31.24	0.3	1	1.58	0.27	0.422							
23-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
24-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
25-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
<b>Week 52</b>																			
26-Dec-11	581	7.80	33	11.2	6.51	13	7.55	0.2	1	0.58	0.34	0.188							
27-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
28-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
29-Dec-11	1242	7.73	29	19.7	24.52	17	21.11	0.3	1	1.24	0.19	0.236							
30-Dec-11	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D							
31-Dec-11	1078	7.87	34	8.0	8.02	9	9.70	0.1	1	1.08	0.02	0.022							

Date of results = date of the start of the 24-hour flow proportional composite sample (8:00 AM)

N/D = No discharge

\* Assay failed

\*\* No assay

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