

Wastewater Monitoring Data October 2013

Published: 05 November 2013 Licensee: Cargill Newcastle EPL no.: 1510									
Qualifications related to limits Samples taken as per approved methods.									
EPA Point ID	Sampling Date	Date Results Received	Pollutant	Measurement Period and Monitoring Frequency Required by Licence	Units	Value October 2013	2013 Values to date		
							Min Value	Mean Value	Max Value
12	23/10/2013	01/11/2013	pH	Quarterly	pH Unit	7.12	7.12	7.51	7.67
			Sodium Adsorption Ratio	Quarterly	-	18.10	8.81	11.38	18.10
			Electrical Conductivity	Quarterly	µS/cm	1,740	1,270	1,473	1,740
			Chloride	Quarterly	mg/L	347	199	270	347
			Total Nitrogen	Quarterly	mg/L	51.8	18.2	40.9	65.2
			Total Phosphorus	Quarterly	mg/L	5.57	0.58	2.35	5.57
			Oil and Grease	Quarterly	mg/L	233	7	65	233
			Calcium	Quarterly	mg/L	6	6	22	31
			Magnesium	Quarterly	mg/L	7	7	10	13
			Sodium	Quarterly	mg/L	276	207	235	276
			Potassium	Quarterly	mg/L	10	9	16	31
			Arsenic	Annually	mg/L	-	0.006	0.006	0.006
			Cadmium	Annually	mg/L	-	<0.0001	<0.0001	<0.0001
			Chromium	Annually	mg/L	-	0.003	0.003	0.003
			Copper	Annually	mg/L	-	0.005	0.005	0.005
			Lead	Annually	mg/L	-	<0.001	<0.001	<0.001
			Nickel	Annually	mg/L	-	0.004	0.004	0.004
			Zinc	Annually	mg/L	-	0.116	0.116	0.116
			Organochlorine Pesticides	Annually	mg/L	-	<2.4	<3.6	<4.7
Organophosphate Pesticides	Annually	mg/L	-	<2.4	<3.6	<4.7			
13	23/10/2013	01/11/2013	pH	Quarterly	pH Unit	7.59	7.59	7.77	7.90
			Sodium Adsorption Ratio	Quarterly	-	2.13	1.98	2.33	3.12
			Electrical Conductivity	Quarterly	µS/cm	1,000	741	948	1,220
			Chloride	Quarterly	mg/L	69	62	68	77
			Total Kjeldahl Nitrogen	Quarterly	mg/L	59.2	54.0	83.7	161.0
			Total Nitrogen	Quarterly	mg/L	59.2	54.1	83.7	161.0
			Total Phosphorus	Quarterly	mg/L	8.14	7.49	14.58	24.30

			Oil and Grease	Quarterly	mg/L	<5	<5	20	59
			Enterococci	Quarterly	CFU/ 100mL	6,600	6,600	47,150	140,000
			Faecal Coliforms	Quarterly	CFU/ 100mL	310,000	110,000	245,000	330,000
			Calcium	Quarterly	mg/L	27	12	19	27
			Magnesium	Quarterly	mg/L	7	6	7	8
			Sodium	Quarterly	mg/L	48	38	46	53
			Potassium	Quarterly	mg/L	28	24	41	82
			Arsenic	Annually	mg/L	-	<0.001	<0.001	<0.001
			Cadmium	Annually	mg/L	-	<0.0001	<0.0001	<0.0001
			Chromium	Annually	mg/L	-	0.007	0.007	0.007
			Copper	Annually	mg/L	-	0.142	0.142	0.142
			Lead	Annually	mg/L	-	0.007	0.007	0.007
			Nickel	Annually	mg/L	-	0.023	0.023	0.023
			Zinc	Annually	mg/L	-	1.10	1.10	1.10

*N/D: Not Detected