

Sampling Points 2 and 3: Final effluent quality

Sampling frequency			Monthly									Every 6 months						
Date Sampled	Date Obtained	Date Published	Release to creek	pH	BOD	TSS	Ammonia	Total N	Total P	O&G	Faecal Col	Tres	Cadmium	Hexavalent Chromium	Lead	Mercury	Zinc	
				pH Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	CFU/100mL	mg/L	ug/L	ug/L	ug/L	ug/L	mg/L	
Limit 100%ile				6.5 – 8.5	30	30		15	1	10	400	0.5						
19-Jan-21	3-Feb-21	22-Feb-21	N	6.90	2	< 5	0.21	12.7	0.28	8	120	0.12						
09-Dec-20	18-Dec-12	22-Feb-21	N	7.46	2	< 5	0.37	12.9	0.18	< 5	25	< 0.2						
24-Nov-20	02-Dec-20	22-Feb-21	N	7.63	3	8	0.42	12.8	0.22	< 5	~17	0.03						
27-Oct-20	05-Nov-20	25-Nov-20	Y	7.54	6	10	0.12	4.5	0.13	< 5	210	0.4						
22-Sep-20	01-Oct-20	25-Nov-20	Y	6.74	4	< 5	0.05	11.0	0.10	< 5	230	0.04	< 5	< 10	< 10	< 0.1	0.02	
24-Aug-20	08-Sep-20	25-Nov-20	Y	7.52	6	10	0.94	12.4	0.29	5	140	0.2						
21-Jul-20	06-Aug-20	03-Sep-20	N	6.88	6	13	0.04	12.7	0.27	< 5	24	0.07						
23-Jun-20	06-Jul-20	03-Sep-20	N	7.10	3	28	0.05	9.6	0.26	12	11	0.48						
26-May-20	4-Jun-20	9-Jun-20	N	7.32	< 2	< 5	0.06	17	0.21	< 5	100	0.17	< 0.1		< 1	< 0.1	0.016	
21-Apr-20	04-May-20	09-Jun-20	N	6.95	< 2	< 5	0.09	14.3	0.41	< 5	14	0.27						
24-Mar-20	02-Apr-20	07-Apr-20	N	7.51	< 2	6	0.05	13.7	0.33	< 5	65	< 0.2						
12-Feb-20	24-Feb-20	07-Apr-20	N	7.18	2	7	0.08	18.0	0.45	< 5	250	0.1						
30-Jan-20	11-Feb-20	07-Apr-20	N	7.28	3	< 5	0.20	21.5	0.46	< 5	~46	0.07						
18-Dec-19	09-Jan-20	07-Apr-20	N	7.23	4	10	0.09	20.9	0.19	< 5	450	0.02						
25-Nov-19	09-Dec-19	31-Jan-20	N	6.88	< 2	9	0.13	24.9	0.14	< 5	46	0.02						
23-Oct-19	31-Oct-19	31-Jan-20	N	7.18	< 2	7	0.08	26.5	0.24	< 5	28	< 0.2						
10-Sep-19	23-Sep-19	31-Jan-20	N	7.20	4	9	0.02	20.8	0.37	< 5	34	< 0.2	< 0.1	< 10	< 1	< 0.1	0.032	
12-Aug-19	23-Aug-19	31-Jan-20	N	6.91	< 2	6	0.08	13.0	0.20	< 5	10	0.2						
10-Jul-19	22-Jul-19	26-Jul-19	N	7.10	< 2	< 5	0.12	21.0	0.22	< 5	29	0.04						
12-Jun-19	21-Jun-19	28-Jun-19	N	7.30	< 2	5	0.19	18.5	0.19	< 5	12	< 0.2						
08-May-19	22-May-19	30-May-19	N	7.19	< 2	5	0.05	20.5	0.34	< 5	36	< 0.2						
10-Apr-19	24-Apr-19	29-Apr-19	N	7.30	< 2	11	0.06	18.9	0.45	< 5	110	< 0.2						
13-Mar-19	21-Mar-19	27-Mar-19	N	7.14	< 2	< 5	0.20	15.9	0.37	< 5	280	< 0.2	< 0.1	< 10	< 1	< 0.1	0.012	
20-Feb-19	01-Mar-19	08-Mar-19	N	7.31	< 2	7	0.21	19.0	0.48	< 5	~48	0.04						
23-Jan-19	11-Feb-19	14-Feb-19	Y	7.15	2	< 5	0.17	12.1	0.33	< 5	290	< 0.2						
19-Dec-18	09-Jan-19	24-Jan-19	Y	7.58	12	8	0.10	17.8	0.63	< 5	220	< 0.2						
15-Dec-18	28-Dec-17	16-May-18	Y	7.61	< 2	< 5	0.06	10.6	1.18	< 5	150	< 0.2						
14-Nov-18	23-Nov-18	03-Dec-18	N	7.46	< 2	< 5	0.09	14.9	0.22	< 5	32	< 0.2						
10-Oct-18	22-Oct-18	24-Oct-18	N	7.30	< 2	5	0.15	15.2	0.23	< 5	32	< 0.2						
11-Sep-18	19-Sep-18	21-Sep-18	N	7.45	< 2	7	0.06	12.5	0.37	< 5	~7	< 0.2	< 0.1	< 10	< 1	< 0.1	0.022	
08-Aug-18	16-Aug-18	29-Aug-18	N	7.11	< 2	7	0.04	13.4	0.38	< 5	49	0.18						
11-Jul-18	25-Jul-18	09-Aug-18	N	7.14	3	< 5	0.06	18.6	0.50	< 5	15	0.09						
12-Jun-18	22-Jun-18	09-Aug-18	N	7.33	< 2	6	0.06	9.9	0.39	< 5	~40	< 0.2						
09-May-18	23-May-18	09-Aug-18	N	6.37	< 2	6	0.07	12.5	0.34	< 5	31	0.3						
11-Apr-18	27-Apr-18	16-May-18	Y	7.26	< 2	< 5	0.07	14.1	0.49	< 5	640	< 0.2						
14-Mar-18	28-Mar-18	16-May-18	Y	7.21	< 2	< 5	0.12	17.0	0.81	< 5	5	< 0.2	< 0.1	< 10	< 1	< 0.1	0.02	
14-Feb-18	26-Feb-18	16-May-18	Y	7.43	< 2	< 5	0.07	11.9	0.64	< 5	11	< 0.2						
10-Jan-18	25-Jan-18	16-May-18	N	7.30	< 2	< 5	0.05	12.5	0.45	< 5	58	< 0.2						
15-Nov-17	29-Nov-17	22-Dec-17	N	7.47	< 2	13	0.10	12.2	1.00	< 5	58	< 0.2						
12-Oct-17	24-Oct-17	22-Dec-17	N	7.12	3	7	0.16	7.0	0.30	< 5	45	< 0.2						
13-Sep-17	29-Sep-17	22-Dec-17	Y	7.60	4	11		8.7	0.65	< 5	7	< 0.2	< 0.1	< 10	< 1	< 0.1	0.032	

15-Aug-17	31-Aug-17	22-Dec-17	N	7.55	< 2	< 5	0.12	10.1	0.47	< 5	71	< 0.2					
11-Jul-17	22-Jun-17	27-Jul-17	Y	6.85	4	< 5	0.03	10.4	0.45	< 5	24	< 0.2					
08-Jun-17	22-Jun-17	06-Jul-17	Y	7.26	< 2	< 5	0.03	14.0	0.28	< 5	14	< 0.2					
02-May-17	18-May-17	01-Jun-17	Y	7.27	< 2	< 5	0.05	12.9	0.38	< 5	76	< 0.2					
03-Apr-17	11-Apr-17	25-Apr-17	Y	7.32	< 2	6	0.04	15.7	0.55	< 5	110	< 0.2					
07-Mar-17	16-Mar-17	30-Mar-17	Y	7.53	< 2	< 5	0.09	11.4	0.83	< 5	130	< 0.2	< 0.1	< 10	< 1	< 0.1	0.021
07-Feb-17	15-Feb-17	01-Mar-17	Y	7.23	< 2	6	0.13	14.0	0.94	< 5	72	< 0.2					
04-Jan-17	18-Jan-17	01-Feb-17	Y	7.25	< 2	< 5	0.10	10.9	0.87	11	130	< 0.2					
07-Dec-16	16-Dec-16	30-Dec-16	Y	7.41	< 2	< 5	0.06	10.6	0.96	< 5	170	< 0.2					
01-Nov-16	09-Nov-16	23-Nov-16	Y	7.17	4	< 5	0.04	16.7	0.50	< 5	100	< 0.2					
10-Oct-16	18-Oct-16	01-Nov-16	Y	7.19	< 2	6	0.04	8.4	0.19	< 5	32	< 0.2					
27-Sep-16	06-Oct-16	20-Oct-16	Y	7.72	< 2	6	0.08	4.9	0.15	< 5	15	0.2	< 0.1	< 10	< 1	< 0.1	0.02
09-Aug-16	17-Aug-16	01-Sep-16	Y	7.17	< 2	6	0.03	6.9	0.14	< 5	52	< 0.2					
05-Jul-16	18-Jul-16	01-Aug-16	Y	7.31	4	18	1.64	16.8	0.53	< 5	350	0.4					
01-Jun-16	10-Jun-16	24-Jun-16	N	7.45	< 2	9	0.23	15.8	0.39	< 5	5	0.2					
03-May-16	10-May-16	24-May-16	N	7.51	< 2	15	0.04	13.3	0.56	< 5	88	< 0.2					
11-Apr-16	26-Apr-16	10-May-16	N	7.70	< 2	< 5	0.03	10.1	0.52	< 5	270	< 0.2					
01-Mar-16	14-Mar-16	28-Mar-16	N	7.80	< 2	< 5	0.04	6.3	0.54	< 5	7900	< 0.2	< 0.1	< 10	< 1	< 0.1	0.02
02-Feb-16	18-Feb-16	03-Mar-16	N	7.54	< 2	< 5	0.04	11.6	0.62	< 5	13000	< 0.2					
05-Jan-16	14-Jan-16	28-Jan-16	Y	7.10	< 2	8	0.05	12.5	0.74	< 5	1900	< 0.2					
01-Dec-15	09-Dec-15	18-Dec-15	Y	7.69	< 2	< 5	0.10	10.6	0.57	< 5	50	< 0.2					
03-Nov-15	23-Nov-15	07-Dec-15	Y	7.74	< 2	< 5	0.06	9.4	0.32	< 5	400	< 0.2					
06-Oct-15	16-Oct-15	30-Oct-15	Y	7.50	4	8	0.04	20.2	0.37	< 5	1500	< 0.2					
01-Sep-15	16-Sep-15	25-Sep-15	Y	7.66	3	< 5	0.03	11.1	0.19	< 5	79	< 0.2	< 0.1	< 10	< 1	< 0.1	0.019
04-Aug-15	14-Aug-15	28-Aug-15	Y	7.71	< 2	< 5	0.05	13.3	0.26	< 5	220	< 0.2					
02-Jul-15	10-Jul-15	24-Jul-15	N	7.49	4	< 5	0.04	12.2	0.58	< 5	68	< 0.2					
02-Jun-15	11-Jun-15	25-Jun-15	N	7.52	3	8	0.03	11.2	0.69	< 5	72	< 0.2					
05-May-15	14-May-15	28-May-15	Y	7.64	< 2	< 5	0.05	6.4	0.54	< 5	58	< 0.2					
08-Apr-15	17-Apr-15	01-May-15	Y	7.62	< 2	6	0.06	4.7	0.41	< 5	22	0.2					
03-Mar-15	18-Mar-15	01-Apr-15	N	7.79	< 2	< 5	0.06	6.7	0.64	< 5	220	< 0.2	< 0.1	< 10	< 1	< 0.1	0.023
03-Feb-15	18-Feb-15	04-Mar-15	Y	7.58	< 5	< 5	0.08	12.6	0.34	8	70	< 0.2					
06-Jan-15	21-Jan-15	04-Feb-15	N	7.68	< 2	< 5	0.04	14.1	0.59	< 5	33	< 0.2					

\* Within EPL limits as final effluent exported to Cadia.

Sampling Points 4 and 5: Blackmans Swamp Creek.

Sampling frequency			Annual (December)								
Date Sampled	Date Obtained	Date Published	Sampling Point	pH Unit	BOD mg/L	TSS mg/L	Ammonia mg/L	Total N mg/L	Total P mg/L	O&G mg/L	Faecal Col CFU/100mL
09-Dec-20	18-Dec-20	22-Feb-21	Upstream	8.25	2	5	0.06	1.2	0.06	< 5	310
09-Dec-20	18-Dec-20	22-Feb-21	Downstream	8.34	< 2	< 5	< 0.01	1.4	0.07	< 5	130
18-Dec-19	09-Jan-20	07-Apr-20	Upstream	8.31	2	74	0.18	1.5	0.22	< 5	1300
18-Dec-19	09-Jan-20	07-Apr-20	Downstream	7.82	2	15	0.06	19.5	0.18	< 5	200
19-Dec-18	09-Jan-19	24-Jan-19	Upstream	8.22	4	10	0.03	0.9	0.05	< 5	9600
19-Dec-18	09-Jan-19	24-Jan-19	Downstream	7.82	10	7	0.10	15.0	0.55	< 5	1600
15-Dec-17	28-Dec-17	16-May-18	Upstream	8.33	< 2	5	0.56	0.9	< 0.01	< 5	1000
15-Dec-17	28-Dec-17	16-May-18	Downstream	7.79	< 2	6	0.09	12.0	1.30	< 5	400
07-Dec-16	16-Dec-16	30-Dec-16	Upstream	7.90	< 2	12	0.10	2.1	0.07	< 5	2800
07-Dec-16	16-Dec-16	30-Dec-16	Downstream	7.83	< 2	7	0.06	8.7	0.80	< 5	700
01-Dec-15	09-Dec-15	18-Dec-15	Upstream	8.64	< 2	14	0.02	0.8	0.02	< 5	2900
01-Dec-15	09-Dec-15	18-Dec-15	Downstream	7.95	< 2	12	0.06	10.3	0.50	< 5	210

Data table abbreviations	
Ammonia	Ammonia
BOD	Biological Oxygen Demand
Cadmium	Cadmium
Faecal Col	Faecal Coliform
hexavalent Chromium	Hexavalent Chromium
Lead	Lead
Mercury	Mercury
O&G	Oil and Grease
pH	pH
Total N	Total Nitrogen
Total P	Total Phosphorus
Tres	Total Residual Chlorine
TSS	Total Suspended Solids
Zinc	Zinc
CFU/100mL	colony forming unit per 100 millilitre
mg/L	milligrams per litre
pH Unit	pH unit
ug/L	micrograms per litre