

Appendix 5

SURFACE WATER MONITORING DATA

Sample No.	Date	Time	Sample Location	pH Field	pH Lab	Electrical Conductivity @25C (µS/cm)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (TOC)	Grease & Oil (mg/L)	Total Alkalinity	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Aluminium	Antimony	Chloride	Sulfates	Molybdenum	Selenium	Sodium	Arsenic	Manganese	Iron	Zinc	Comments
ES1303279001	12-Feb-13	12:00	SD4	9.14	8.49	458	429	248	9	<5						<0.001			0.005	<0.01		0.004				
ES1303279002	12-Feb-13	11:10	SB1	8.79	8.23	310	296	86	4	<5						<0.001			0.002	<0.01		0.006				
ES1303279003	12-Feb-13	10:40	SB2	8.33	8.2	322	309	436	2	<5						<0.001			0.004	<0.01		0.004				
ES1303279004	12-Feb-13	10:00	SB3	8.29	7.96	324	315	18	3	<5						<0.001			0.004	<0.01		0.003				
ES1303279005	12-Feb-13	11:40	SB4	8.37	7.79	243	234	113	2	<5						<0.001			0.005	<0.01		0.001				
ES1303279006	12-Feb-13	10:20	SB5	8.02	7.53	152	144	266	2	<5						<0.001			<0.001	<0.01		0.008				
ES1303279007	12-Feb-13	12:40	VOID	8.68	8.58	5090	4480	5	2	<5																
ES1310164-001	02-May-13	9:30	SB2	8.62	7.92	402	396	61	3	<5						<0.001			0.004	<0.01		0.002				
ES1310164-002	02-May-13	9:50	SB3	8.25	8.09	394	403	144	4	<5						<0.001			0.004	<0.01		0.002				
ES1310164-003	02-May-13	9:00	VOID	8.78	8.54	4870	5350	6	1	<5																
ES1318099-001	13-Aug-13	9:30	SD4	8.33	8.07	799	762	318	26	<5						<0.001	0.004			0.005	<0.01					
ES1318099-002	13-Aug-13	8:30	SD1	8.87	8.47	405	513	343	22	<5						<0.001	0.005			0.003	0.01					Dam level low
ES1318099-003	13-Aug-13	9:50	SB2	8.19	8.15	312	318	82	4	<5						<0.001	0.002			0.003	<0.01					
ES1318099-004	13-Aug-13	10:10	SB3	8.45	8.35	331	320	72	5	<5						<0.001	0.002			0.003	<0.01					
ES1318099-005	13-Aug-13	9:00	SB4	7.99	8.07	347	340	110	9	<5						<0.001	0.001			0.005	<0.01					
ES1318099-006	13-Aug-13	10:30	SB5	7.55	7.63	160	158	471	10	<5						<0.001	0.012			<0.001	0.02					Dam level low
ES1318099-007	13-Aug-13	8:00	VOID	8.48	8.51	5080	4810	22	2	<5						0.001	0.002			0.088	0.04					
ES1325115-001	18-Nov-13	10:20	SD1	9.7	8.88	399	390	46	13	<5						<0.001	0.005			0.007	<0.01					Low water level
ES1325115-002	18-Nov-13	11:15	SB2	9.2	8.31	410	420	27	8	<5						<0.001	0.002			0.005	<0.01					
ES1325115-003	18-Nov-13	10:45	VOID	8.8	8.5	5850	5370	6	3	<5	403	<1	43	360	0.02		0.004	1120					0.011	<0.05		
ES1402292-001	04-Feb-14	11:30	SB2	9.9	8.97	713	663	66	31	<5												0.002				
ES1402292-002	05-Feb-14	11:10	VOID	8.9	8.5	7270	6210	<5	52	<5																
ES1410234-001	07-May-14	10:35	SD4	8.1	7.69	717	677	3190	13	<5												0.013				
ES1410234-002	07-May-14	10:15	SD1	8.8	8.35	453	452	196	4	<5												0.005				
ES1410234-003	07-May-14	11:30	SB2	8	8.45	492	474	59	3	<5												0.001				
ES1410234-004	07-May-14	11:05	SB4	8.2	7.76	484	457	647	6	<5												0.005				
ES1410234-005	07-May-14	12:05	SB5	8.5	7.48	225	221	6750	56	<5												0.019				
ES1410234-006	07-May-14	9:30	VOID	8.7	8.51	6620	6140	26	<1	<5	629	<1	28	401	0.02		1210				933	0.002	0.007	<0.05		
ES1417254-001	05-Aug-14	11:10	SD1	8.6	8.53	609	644	40	20	<5												0.003				
ES1417254-002	05-Aug-14	12:00	SB2	9.3	8.53	522	494	11	5	<5												0.001				
ES1417254-003	05-Aug-14	12:10	SB5	8.1	7.81	177	162	5500	54	8												<0.001				
ES1417254-004	05-Aug-14	10:55	VOID	8.7	8.57	6410	5930	<5	4	<5																
ES142449-001	06-Nov-14	9:00	SB2	9.1	8.41	738	702	21	6	<5																
ES142449-002	06-Nov-14	9:20	VOID	8.8	8.66	6610	6330	6	3	<5												0.001				

Wet Weather Discharge Monitoring Data

Sample No.	Sample Location	Date	Time	pH	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Grease & Oil (mg/L)	Total Organic Carbon (mg/L)	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Zinc (mg/L)	Iron (mg/L)	Mercury (mg/L)	NOX Nitrite + Nitrate as N (mg/L)	Total Nitrogen as N (mg/L)	Total Nitrogen as N (mg/L)	Total Phosphorous as P (mg/L)	Comments	
ES1025676-001	CCU	10-Dec-10	16:00	7.17	76	646	<5	6																
ES1025676-002	CCD	10-Dec-10	16:30	6.95	74	2030	<5	8																
ES1025676-003	SD4	10-Dec-10	10:00	7.30	243	50	<5	4																
ES1025676-004	SD3	10-Dec-10	10:15	7.18	110	44	<5	7																
ES1127394-001	SD4	12-Dec-11	10:40	7.06	95	48	<5	11																
ES1127394-002	CCU	12-Dec-11	10:30	7.09	101	46	<5	13	6.7	0.003	<0.0001	0.007	0.002	0.055	<0.001	0.015	6.3	<0.0001	0.01	2	2	1.2		
ES1127394-003	CCD	12-Dec-11	10:35	7.16	89	34	<5	13	7.17	0.005	<0.0001	0.007	0.002	0.06	<0.001	0.02	6.48	<0.0001	0.01	1.3	1.3	1.22		
ES1202680-001	CCD	01-Feb-12	13:00	6.9	48	36	<5	5																
ES1202680-002	SD4	06-Feb-12	12:00	8.23	272	16	<5	3																Regional flooding