

Sediment Basin Water Monitoring - May 2018

Monitoring Location: POINT 1 - Sediment Basin Outlet

Licensee: Laing O'Rourke Australia Construction Pty Ltd
 Premises: Woolgoolga to Ballina Pacific Highway Upgrade Project, Harwood NSW 2465
 Licence No: 20713

Portion / Section	Contractor	Basin Name/ Number	Rainfall start date	Rainfall end date	Rainfall total (mL)	Date of Treatment	Date of Discharge	Volume of Discharge (kL)	EPL water quality parameters			Turbidity NTU Limit - Varies per Contractor	Comments
									Oil & Grease	pH	TSS (mg/L)		
									Nil	6.5 – 8.5	Limit ≤ 50 mg/L		
Portion A S3	SWC	50360	18/04/2018	27/04/2018	46.6	1/05/2018	1/05/2018	110	Nil	7	34	24	Released via basin spillway
Portion A S3	SWC	47020	18/04/2018	27/04/2018	46.6	1/05/2018	1/05/2018	550	Nil	7.1	18	24	Released via basin spillway
Portion A S3	SWC	47340	18/04/2018	27/04/2018	46.6	1/05/2018	1/05/2018	280	Nil	6.7	41	24	Released via basin spillway
Portion A S3	SWC	50360	Nil - Refer to comment			11/05/2018	11/05/2018	80	Nil	7.5	8	30	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	48610	Nil - Refer to comment			11/05/2018	11/05/2018	300	Nil	7.5	12	30	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	48780	Nil - Refer to comment			11/05/2018	11/05/2018	230	Nil	7.4	1	24	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	68700	Nil - Refer to comment			11/05/2018	11/05/2018	600	Nil	8.3	26	50	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	47710	Nil - Refer to comment			12/05/2018	12/05/2018	200	Nil	7.2	8	27	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	50010	Nil - Refer to comment			10/05/2018	10/05/2018	300	Nil	7.7	2	24	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	48010	Nil - Refer to comment			12/05/2018	14/05/2018	540	Nil	7.2	4	24	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	42690	Nil - Refer to comment			22/05/2018	22/05/2018	100	Nil	6.9	3	20	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S3	SWC	41340	Nil - Refer to comment			23/05/2018	23/05/2018	100	Nil	7	1	20	Released via basin spillway - released further water in preparation for rain event (well below designed capacity)
Portion A S4A	BGC	SB 77500 E	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	1140	Nil	8	17	16	EAL test results were not included in April EPL Report
Portion A S4A	BGC	SB 78450 W	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	295	Nil	7.35	23	24	EAL test results were not included in April EPL Report
Portion A S4A	BGC	SB GH4	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	1751	Nil	7.66	34	41	EAL test results were not included in April EPL Report
Portion A S4A	BGC	SB 75200 E	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	498	Nil	8.14	19	20	EAL test results were not included in April EPL Report
Portion A S4A	BGC	SB 77500 W	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 77800	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB 78000	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 77500 E	8/05/2018	10/05/2018	0.0308	10/05/2018	12/05/2018	1140	Nil	7.84		71.4	
Portion A S4A	BGC	SB 78450 W	8/05/2018	10/05/2018	0.0308	10/05/2018	11/05/2018	295	Nil	7.14	35	55	
Portion A S4A	BGC	SB 78450 E	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB GH4	8/05/2018	10/05/2018	0.0308	10/05/2018	11/05/2018	1751	Nil	7.58	32	68	
Portion A S4A	BGC	SB 76450	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB 76200	8/05/2018	10/05/2018	0.0308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB 75200 E	8/05/2018	10/05/2018	0.0308	10/05/2018	14/05/2018	498	Nil	8.45		21	
Portion A S4A	BGC	SB 75200 W	8/05/2018	10/05/2018	0.0308	11/05/2018	12/05/2018	213	Nil	6.67		60.4	
Portion A S4A	BGC	SB 75500	8/05/2018	10/05/2018	0.0308	10/05/2018	11/05/2018	327	Nil	7.52		60.1	
Portion A S4A	BGC	SB 69620 E	8/05/2018	10/05/2018	0.0196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB 68910	8/05/2018	10/05/2018	0.0196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 69620 W	8/05/2018	10/05/2018	0.0196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 69052	8/05/2018	10/05/2018	0.0196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion B S5	BMD	IEB03	18/04/2018	5/05/2018	65.8	pre-dosed catchment and basin inlet	3/05/2018	80	Nil	6.95		9.5	
Portion B S5	BMD	MC03	18/04/2018	5/05/2018	65.8	pre-dosed catchment and basin inlet	3/05/2018	400	Nil	7.49	11	26.1	
Portion B S5	BMD	MC01	8/05/2018	9/05/2018	57	pre-dosed catchment and basin inlet	9/05/2018	300	Nil	7.54	17	27.1	
Portion B S5	BMD	C1	8/05/2018	9/05/2018	57	pre-dosed catchment and basin inlet	10/05/2018	30	Nil	7.59	11	22.1	
Portion B S5	BMD	MC03	N/A	N/A	N/A	pre-dosed catchment and basin inlet	15/05/2018	120	Nil	7.52	14	24.2	below storage level discharged for de-silting operations
Portion B S6	BMD	BMD-SB04	7/05/2018	10/05/2018	24.2	9/05/2018	11/05/2018	300	Nil	6.58	12	12.7	TSS/Turbidity correlation approved
Portion B S6	BMD	BMD-SB05	7/05/2018	10/05/2018	24.2	9/05/2018	12/05/2018	400	Nil	6.95	11	23.5	TSS/Turbidity correlation approved
Portion B S6	BMD	BMD-SB06	7/05/2018	10/05/2018	24.2	12/05/2018	14/05/2018	400	Nil	7.78	11	21.7	TSS/Turbidity correlation approved
Portion B S6	BMD	BMD-SB04	7/05/2018	10/05/2018	24.2	9/05/2018	12/05/2018	200	Nil	7.48	12	7	TSS/Turbidity correlation approved
Portion B	Golding	Castle Pad Basin	8/05/2018	11/05/2018	49.4	14/05/2018	15/05/2018	650	Nil	6.61	14	19.8	

Portion D	LLE	Wardell Rd - 152800E	21/04/2018	26/04/2018	116.4	N/A	27/04/2018	1417	Nil	6.5	24		Self Flocking
Portion D	LLE	Cut 3 North - 148050W	21/04/2018	26/04/2018	116.4	26/04/2018	27/04/2018	610	Nil	6.5	21		
Portion D	LLE	Montis - 149200E	21/04/2018	26/04/2018	116.4	26/04/2018	27/04/2018	2611	Nil	6.6	18		
Portion D	LLE	Cut 3 South East - 147220E	21/04/2018	26/04/2018	116.4	26/04/2018	28/04/2018	862	Nil	6.7	49		
Portion D	LLE	Cut 3 South West - 147220W	21/04/2018	26/04/2018	116.4	27/04/2018	28/04/2018	1195	Nil	6.5	48		
Portion D	LLE	Cut 3 South East - 147220E	28/04/2018	1/05/2018	34.4	2/05/2018	3/05/2018	755	Nil	7.2	16		
Portion D	LLE	Cut 3 South West - 147220W	28/04/2018	1/05/2018	34.4	2/05/2018	4/05/2018	1180	Nil	7.8	27		
Portion D	LLE	Montis - 149200E	28/04/2018	1/05/2018	34.4	2/05/2018	4/05/2018	2438	Nil	7.2	39		
Portion D	LLE	Wardell Rd - 152800E	28/04/2018	1/05/2018	34.4	N/A	4/05/2018	885	Nil	8.2	18		Self Flocking
Portion D	LLE	Cut 3 South East - 147220E	7/05/2018	10/05/2018	36.2	10/05/2018	11/05/2018	162	Nil	7.8	7		
Portion D	LLE	Montis - 149200E	7/05/2018	10/05/2018	36.2	10/05/2018	11/05/2018	1219	Nil	7.4	22		
Portion D	LLE	Cut 3 North - 148050W	7/05/2018	10/05/2018	36.2	10/05/2018	11/05/2018	267	Nil	7.6	1		
Portion D	LLE	Cut 3 South West - 147220W	7/05/2018	10/05/2018	36.2	10/05/2018	11/05/2018	672	Nil	6.7	27		
Portion E	AFHJV	Sediment Basin 1	8/05/2018	9/05/2018	52.8	9/05/2018	10/05/2018	695	Nil	7.64	16	29.4	TSS-NTU relationship not approved
Portion E	AFHJV	Sediment Basin 2	8/05/2018	9/05/2018	52.8	9/05/2018	10/05/2018	1324	Nil	8.4	20	37.5	