

Sediment Basin Water Monitoring - July 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	Comments
									Oil & Grease	pH	TSS		
									Nil	6.5 - 8.5	(mg/L)		
Nil	6.5 - 8.5	Limit ≤ 50 mg/L	Limit - Varies per Contractor										
A S3	SWC	68700	Refer to comments			10/07/2018	10/07/2018	200	Nil	6.6	27	30	dewatered for basin de-silt
A S3	SWC	67940	Refer to comments			12/07/2018	12/07/2018	700	Nil	7.5	5	5	dewatered for basin wall rebuild
A S3	SWC	67940	Refer to comments			12/07/2018	13/07/2018	500	Nil	7.1	3	24	dewatered for basin wall rebuild
A S3	SWC	62150	Refer to comments			14/07/2018	14/07/2018	200	Nil	7.1	11	10	dewatered to enlarge basin
A S3	SWC	67520	Refer to comments			17/07/2018	17/07/2018	300	Nil	8	1	24	dewatered for basin de-silt
A S3	SWC	67520	Refer to comments			17/07/2018	18/07/2018	150	Nil	7.3	15	24	dewatered for basin de-silt
A 4	BGC	SB 77500 E	27/06/2018	28/06/2018	0.0164	29/06/2018	30/06/2018	294.5	Nil	7.84	22	24.8	TSS results - As referenced in June EPL report
A 4	BGC	SB 69620	27/06/2018	28/06/2018	0.0396	29/06/2018	29/06/2018	2600	Nil	7.26	24	75.3	TSS results - As referenced in June EPL report
A 4	BGC	SB 69610 W	27/06/2018	28/06/2018	0.0396	29/06/2018	29/06/2018	397	Nil	7.48	8	15.1	TSS results - As referenced in June EPL report
A 4	BGC	SB GH4	27/06/2018	28/06/2018	0.0164	29/06/2018	2/07/2018	1495	Nil	8.07		33.9	
A 4	BGC	SB 75200 E	27/06/2018	28/06/2018	0.0164	29/06/2018	2/07/2018	213	Nil	8.02		79.6	
A 4	BGC	SB 75500 W	27/06/2018	28/06/2018	0.0164	29/06/2018	2/07/2018	1516	Nil	8.13		55.9	
A 4	BGC	SB 77500 E	4/07/2018	6/07/2018	0.0126	9/07/2018	9/07/2018	1140	Nil	7.83	21	28	
A 4	BGC	SB GH4	4/07/2018	6/07/2018	0.0126	9/07/2018	9/07/2018	1751	Nil	8.35		25.7	
A 4	BGC	SB 75200 E	4/07/2018	6/07/2018	0.0126	9/07/2018	10/07/2018	498	Nil	7.91		74.3	
B 5	Golding	Castle Pad Basin	1/07/2018	8/07/2018	40.8	7/7/2018	7/07/2018	600	Nil	6.75		19.1	Lab sample not taken - 1 in 3 required
B 5	Golding	Iluka East Basin	11/07/2018	15/07/2018	2.8	17/07/2018	24/07/2018	600	Nil	6.65		2.2	No, basin is temporary thus no point in correlation. Site access issues meant basin was dewatered late
B 6	BMD	BMD-SB12	4/07/2018	6/07/2018	34.8	N/A	6/07/2018	150	Nil	6.58	4	15.3	TSS/Turbidity correlation approved
B 6	BMD	BMD-SBCB	4/07/2018	6/07/2018	33.8	N/A	6/07/2018	150	Nil	7.32	3	11.2	TSS/Turbidity correlation approved
B 6	BMD	BMD-SB03	4/07/2018	6/07/2018	33.8	N/A	9/07/2018	500	Nil	6.85		16.1	TSS/Turbidity correlation approved
B 6	BMD	BMD-SB03	4/07/2018	6/07/2018	33.8	N/A	9/07/2018	500	Nil	6.69		34.2	TSS/Turbidity correlation approved
B 6	BMD	BMD-SB01	4/07/2018	6/07/2018	33.8	N/A	8/07/2018	150	Nil	6.66		16.1	TSS/Turbidity correlation approved
B 6	BMD	BMD-MC01	4/07/2018	6/07/2018	33.8	N/A	9/07/2018	150	Nil	6.75		11.1	TSS/Turbidity correlation approved
B 6	BMD	BMD-SB08	4/07/2018	6/07/2018	33.8	N/A	6/07/2018	500	Nil	7.46		39.2	TSS/Turbidity correlation approved
B 6	BMD	BMD-MC03	4/07/2018	6/07/2018	33.8	N/A	11/07/2018	250	Nil	7.18		13.5	TSS/Turbidity correlation approved
C	CPB	CH119800	3/07/2018	7/07/2018	39.4	6/07/2018	10/07/2018	25	Nil	6.54	18		
D	LendLease	Cut 3 Sth East 147220E	N/A	N/A	-	N/A	25/06/2018	215	Nil	6.5	4	6.48	Basin was at top of SSZ and required dewatering prior to expected rainfall
D	LendLease	Gibsons Quarry 148450W	N/A	N/A	-	N/A	25/06/2018	170	Nil	6.5	<1	1.38	No treatment required. Self Flocking
D	LendLease	Cut 3 South West 147220W	4/07/2018	6/07/2018	26.4	9/07/2018	10/07/2018	746	Nil	7.4	27	27.9	
D	LendLease	Montis Basin 149200E	4/07/2018	6/07/2018	26.4	9/07/2018	10/07/2018	1741	Nil	7.2	18	34.8	No treatment required. Basin inlet and drainage lines pre dosed with gypsum on 10/5/2018
D	LendLease	Cut 3 Sth East 147220E	4/07/2018	6/07/2018	26.4	9/07/2018	10/07/2018	539	Nil	6.9	44	49.8	
E	AFHJV	Sediment Basin 1	1/07/2018	5/07/2018	37	5/07/2018	5/07/2018	600	Nil	7.55	14	51	
E	AFHJV	Sediment Basin 2	1/07/2018	5/07/2018	37	6/07/2018	6/07/2018	400	Nil	8.28	19	54.9	