

Sediment Basin Water Monitoring - April 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 | | | | Comments | |
|-------------------|------------|--------------------|-------------------------------|-------------------|---------------------|-------------------|-------------------|--------------------------|------------------------------|------|--------|-----------|--|--|
| | | | | | | | | | Oil & Grease | pH | TSS | Turbidity | | |
| | | | | | | | | | | | (mg/L) | | | NTU |
| Nil | 6.5 – 8.5 | Limit ≤ 50 mg/L | Limit - Varies per Contractor | | | | | | | | | | | |
| Portion A | SWC | 38550 | 4/04/2018 | 5/04/2018 | 9 | 5/04/2018 | 5/04/2018 | 500 | Nil | 7.8 | | 10 | Released via basin spillway | |
| Portion A | SWC | 39580 | 4/04/2018 | 5/04/2018 | 9 | 5/04/2018 | 5/04/2018 | 600 | Nil | 7.8 | | 40 | Released via basin spillway | |
| Portion A | SWC | 47340 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 9/04/2018 | 300 | Nil | 6.7 | | 24 | Released via basin spillway | |
| Portion A | SWC | 47340 | 4/04/2018 | 8/04/2018 | 26.4 | 10/04/2018 | 10/04/2018 | 50 | Nil | 7.8 | 6 | 15 | Released via basin spillway | |
| Portion A | SWC | 47710 | 4/04/2018 | 8/04/2018 | 26.4 | 6/04/2018 | 6/04/2018 | 220 | Nil | 7.5 | | 30 | Released via basin spillway | |
| Portion A | SWC | 47710 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 9/04/2018 | 75 | Nil | 7.1 | 11 | 24 | Released via basin spillway | |
| Portion A | SWC | 48610 | 4/04/2018 | 8/04/2018 | 26.4 | 7/04/2018 | 7/04/2018 | 300 | Nil | 7.8 | 1 | 13 | Released via basin spillway | |
| Portion A | SWC | 48780 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 9/04/2018 | 300 | Nil | 6.7 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 51450 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 9/04/2018 | 125 | Nil | 6.8 | 13 | 15 | Released via basin spillway | |
| Portion A | SWC | 53660 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 10/04/2018 | 308 | Nil | 7.1 | | 30 | Released via basin spillway | |
| Portion A | SWC | 53660 | 4/04/2018 | 8/04/2018 | 26.4 | 9/04/2018 | 11/04/2018 | 200 | Nil | 6.9 | | 24 | Released via basin spillway | |
| Portion A | SWC | 55110 | 4/04/2018 | 8/04/2018 | 26.4 | 6/04/2018 | 6/04/2018 | 297 | Nil | 7 | | 27 | Released via basin spillway via syphon | |
| Portion A | SWC | 36510 | 15/04/2018 | 25/04/2018 | 51.2 | 30/04/2018 | 30/04/2018 | 400 | Nil | 7.1 | | 45 | Released via basin spillway | |
| Portion A | SWC | 37020 | 15/04/2018 | 25/04/2018 | 51.2 | 16/04/2018 | 16/04/2018 | 500 | Nil | 7.4 | | 50 | Released via basin spillway | |
| Portion A | SWC | 37370 | 15/04/2018 | 25/04/2018 | 51.2 | 28/04/2018 | 28/04/2018 | 200 | Nil | 7.2 | | 35 | Released via basin spillway | |
| Portion A | SWC | 38180 | 15/04/2018 | 25/04/2018 | 51.2 | 29/04/2018 | 30/04/2018 | 200 | Nil | 6.9 | | 40 | Released via basin spillway via syphon | |
| Portion A | SWC | 39030 | 15/04/2018 | 25/04/2018 | 51.2 | 29/04/2018 | 30/04/2018 | 350 | Nil | 7.3 | | 50 | Released via basin spillway | |
| Portion A | SWC | 39700 | 15/04/2018 | 25/04/2018 | 51.2 | 27/04/2018 | 27/04/2018 | 300 | Nil | 6.9 | | 40 | Released via basin spillway via syphon | |
| Portion A | SWC | 39700 | 15/04/2018 | 25/04/2018 | 51.2 | 28/04/2018 | 28/04/2018 | 400 | Nil | 6.7 | | 30 | Released via basin spillway via syphon | |
| Portion A | SWC | 41340 | 15/04/2018 | 25/04/2018 | 51.2 | 27/04/2018 | 27/04/2018 | 400 | Nil | 7.2 | | 30 | Released via basin spillway | |
| Portion A | SWC | 48780 | 18/04/2018 | 26/04/2018 | 26.4 | 20/04/2018 | 20/04/2018 | 190 | Nil | 6.8 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 52680 | 18/04/2018 | 26/04/2018 | 46.2 | 26/04/2018 | 27/04/2018 | 228 | Nil | 7 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 53830 | 18/04/2018 | 26/04/2018 | 46.2 | 26/04/2018 | 27/04/2018 | 142 | Nil | 6.9 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 54660 | 18/04/2018 | 26/04/2018 | 46.2 | 27/04/2018 | 27/04/2018 | 48 | Nil | 7.2 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 55100 | 18/04/2018 | 26/04/2018 | 46.2 | 27/04/2018 | 27/04/2018 | 298 | Nil | 7.1 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 55100 | 18/04/2018 | 26/04/2018 | 46.2 | 30/04/2018 | 30/04/2018 | 298 | Nil | 7.8 | | 30 | Released via basin spillway via syphon | |
| Portion A | SWC | 55110 | 18/04/2018 | 26/04/2018 | 46.2 | 20/04/2018 | 20/04/2018 | 297 | Nil | 7.8 | | 30 | Released via basin spillway via syphon | |
| Portion A | SWC | 56880 | 18/04/2018 | 27/04/2018 | 41.4 | 26/04/2018 | 26/04/2018 | 450 | Nil | 7.5 | | 20 | Released via basin spillway | |
| Portion A | SWC | 57260 | 18/04/2018 | 27/04/2018 | 41.4 | 26/04/2018 | 26/04/2018 | 400 | Nil | 7.9 | | 20 | Released via basin spillway | |
| Portion A | SWC | 59210 | 18/04/2018 | 27/04/2018 | 41.4 | 30/04/2018 | 30/04/2018 | 400 | Nil | 7.7 | | 20 | Released via basin spillway via syphon | |
| Portion A | SWC | 61750 | 18/04/2018 | 27/04/2018 | 41.4 | 26/04/2018 | 26/04/2018 | 280 | Nil | 7.6 | | 20 | Released via basin spillway | |
| Portion A | SWC | 63890 | 24/04/2018 | 27/04/2018 | 28.8 | 26/04/2018 | 27/04/2018 | 400 | Nil | 7.2 | | 40 | Released via basin spillway via syphon | |
| Portion A | SWC | 67080 | 24/04/2018 | 27/04/2018 | 28.8 | 27/04/2018 | 27/04/2018 | 400 | Nil | 7.1 | | 40 | Released via basin spillway via syphon | |
| Portion A | SWC | 67520 | 24/04/2018 | 27/04/2018 | 28.8 | 27/04/2018 | 27/04/2018 | 200 | Nil | 6.6 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 68090 | 24/04/2018 | 27/04/2018 | 28.8 | 26/04/2018 | 26/04/2018 | 200 | Nil | 6.8 | | 24 | Released via basin spillway via syphon | |
| Portion A | SWC | 43490 | N/A | N/A | N/A | 3/04/2018 | 3/04/2018 | 300 | Nil | 8 | | 30 | Released via basin spillway -Water Cart | |
| Portion A S4A | BGC | SB 77500 W | 25/03/2018 | 29/03/2018 | 0.046 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (green) - not captured in March EPL |
| Portion A S4A | BGC | SB 77800 | 25/03/2018 | 29/03/2018 | 0.046 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (green) - not captured in March EPL |
| Portion A S4A | BGC | SB 78000 | 25/03/2018 | 29/03/2018 | 0.046 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) - not captured in March EPL |
| Portion A S4A | BGC | SB 77500 E | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 26/03/2018 | 1140 | Nil | 7.23 | | 51 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 78450 W | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 26/03/2018 | 295 | Nil | 7.89 | | 77.8 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 78450 E | 25/03/2018 | 29/03/2018 | 0.046 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (green) - not captured in March EPL |
| Portion A S4A | BGC | SB GH4 | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 27/03/2018 | 1751 | Nil | 7.4 | 36 | 44 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 76450 | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 27/03/2018 | 781 | Nil | 6.91 | 43 | 53 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 76200 | 25/03/2018 | 29/03/2018 | 0.046 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (green) - not captured in March EPL |
| Portion A S4A | BGC | SB 75900 | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 27/03/2018 | 1099 | Nil | 7.61 | | 40.8 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 75200 E | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 26/03/2018 | 498 | Nil | 6.98 | | 57.1 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 75200 W | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 26/03/2018 | 213 | Nil | 6.75 | 42 | 60 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 75500 | 25/03/2018 | 29/03/2018 | 0.046 | 43185 | 28/03/2018 | 327 | Nil | 8.01 | | 52.4 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 69620 E | 25/03/2018 | 29/03/2018 | 0.039 | 43185 | 27/03/2018 | 2292 | Nil | 6.98 | 16 | 13 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 68910 | 25/03/2018 | 29/03/2018 | 0.039 | 43185 | 26/03/2018 | 283 | Nil | 8.03 | | 9.8 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 69620 W | 25/03/2018 | 29/03/2018 | 0.039 | 43185 | 26/03/2018 | 390 | Nil | 6.9 | 14 | 13 | Not captured in March EPL Reporting | |
| Portion A S4A | BGC | SB 69052 | 25/03/2018 | 29/03/2018 | 0.039 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 77500W | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (green) |
| Portion A S4A | BGC | SB 77800 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 78000 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | 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 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | 30/04/2018 | 1140 | Nil | 8 | 17 | 47.9 | Sample has been sent to lab for analysis | |
| Portion A S4A | BGC | SB 78450 W | 29/04/2018 | 1/05/2018 | 0.023 | N/A | 30/04/2018 | 295 | Nil | 6.74 | 42 | 58 | Sample has been sent to lab for analysis | |
| Portion A S4A | BGC | SB 78450 E | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB GH4 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | 30/04/2018 | 1751 | Nil | 7.66 | 34 | 61.5 | Sample has been sent to lab for analysis | |
| Portion A S4A | BGC | SB 76450 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 76200 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| 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 | 36 | basin is compliant (red) | |

| | | | | | | | | | | | | |
|---------------|---------------------|-----------------------|------------|------------|-------|-------------------------------------|------------|-----|-----|------|------|---|
| Portion A S4A | BGC | SB 75200 W | 29/04/2018 | 1/05/2018 | 0.023 | N/A | 30/04/2018 | 213 | Nil | 7.83 | 62.5 | |
| Portion A S4A | BGC | SB 75500 | 29/04/2018 | 1/05/2018 | 0.023 | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 69620 E | 29/04/2018 | 1/05/2018 | 0.026 | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 68910 | 29/04/2018 | 1/05/2018 | 0.026 | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 69620 W | 29/04/2018 | 1/05/2018 | 0.026 | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion A S4A | BGC | SB 69052 | 29/04/2018 | 1/05/2018 | 0.026 | N/A | N/A | N/A | N/A | N/A | N/A | Basin is compliant (red) |
| Portion B | BMD - Diversion Lns | MC01 | 28/03/2018 | 10/04/2018 | 34.8 | pre-dosed catchment and basin inlet | 7/04/2018 | 6.5 | Nil | 6.58 | 32.5 | |
| Portion B | BMD - Diversion Lns | MC03 | 28/03/2018 | 10/04/2018 | 34.8 | pre-dosed catchment and basin inlet | 7/04/2018 | 4.5 | Nil | 6.54 | 30.1 | |
| Portion B | BMD - Diversion Lns | MC01 | 18/04/2018 | 27/04/2018 | 58.4 | pre-dosed catchment and basin inlet | 27/04/2018 | 4.5 | Nil | 6.96 | 18.7 | |
| Portion B | BMD - Section 6 | BMD-SB04 | 4/04/2018 | 7/04/2018 | 11.4 | 8/04/2018 | 10/04/2018 | 100 | Nil | 7.19 | 2.3 | TSS/Turbidity correlation approved (TSS = 39 NTU). TSS sampling every 3rd release |
| Portion D | LendLease | Law's Point (146380W) | 22/03/2018 | 27/03/2018 | 44 | N/A | 26/03/2018 | 805 | Nil | 6.6 | | Irrigated to land infiltration zone 150m north |
| Portion D | LendLease | Law's Point (146380W) | 28/03/2018 | 3/04/2018 | 19.8 | N/A | 3/04/2018 | 805 | Nil | 6.9 | | Irrigated to land infiltration zone 150m north |