

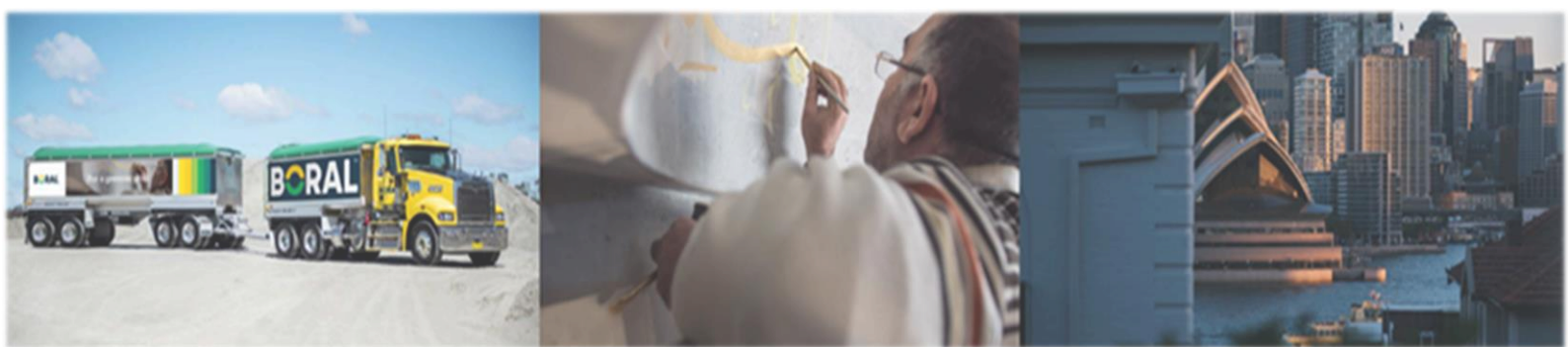


# Environmental Monitoring Report

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## Dunmore Lakes Sand Project June 2023

Date Published: July 2023



## Dunmore Lakes Sand Project Environmental Monitoring Report

This monitoring report is to satisfy the requirements of Section 66 (6) of the Protection of the Environment and Operations Act 1997, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 11147 (EPL 11147 – Boral Dunmore Lakes Sand Project)

This report provides environmental monitoring data for Dunmore Lakes Sand Project for the period of June 2019 to June 2023.

Dunmore Lakes Sand Project Information	
Premise Details	Boral – Dunmore Lakes Sand Project
Address	Princes Highway, Dunmore NSW, 2529
Licensee	Boral Resources (NSW) PTY LTD
EPL N <sup>o</sup>	11147
EPL Location	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33270&amp;SYSUID=1&amp;LICID=11147">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33270&amp;SYSUID=1&amp;LICID=11147</a>

Monitoring data in this report relates to the monitoring undertaken for Water Quality.

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### Water Monitoring

Water Quality Monitoring is conducted as per condition M2.3 of EPL 11147. The water quality results for the reporting period are tabled below.

Sample Period: June 2023  
 Licensee: Dunmore Lakes Sand Project  
 Address: Princes Hwy, Dunmore NSW 2529  
 EPL No: 11147

Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 9 DW20b	22/06/2023	30/06/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in June
Monitoring Point 10 DW21a	22/06/2023	30/06/2023	pH Total suspended solids Turbidity	7.0 19	pH mg/L NTU	
Monitoring Point 11 EPL12	22/06/2023	30/06/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 12 EPL11	22/06/2023	30/06/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	22/06/2023	30/06/2023	pH Total suspended solids Turbidity	6.7 45	pH mg/L NTU	

ND: No discharge from sampling site  
 NA: Not yet activated by operations

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### Historical Water Monitoring Data

Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 9 DW20b	23/05/2023	05/06/2023	pH Total suspended solids Turbidity	7.7 331 45	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in May
Monitoring Point 10 DW21a	23/05/2023	05/06/2023	pH Total suspended solids Turbidity	6.9 10 17	pH mg/L NTU	
Monitoring Point 11 EPL12	23/05/2023	05/06/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 12 EPL11	23/05/2023	05/06/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	23/05/2023	05/06/2023	pH Total suspended solids Turbidity	6.6 221 60	pH mg/L NTU	
Monitoring Point 9 DW20b	20/04/2023	03/05/2023	pH Total suspended solids Turbidity	7.5 17 15	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in April
Monitoring Point 10 DW21a	20/04/2023	03/05/2023	pH Total suspended solids Turbidity	6.9 14 7.7	pH mg/L NTU	
Monitoring Point 11 EPL12	20/04/2023	03/05/2023	pH Total suspended solids Turbidity	7.7 10 1.2	pH mg/L NTU	
Monitoring Point 12 EPL11	20/04/2023	03/05/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	20/04/2023	03/05/2023	pH Total suspended solids Turbidity	6.9 32 19	pH mg/L NTU	
Monitoring Point 9 DW20b	23/03/2023	03/04/2023	pH Total suspended solids Turbidity	7.6 22 12	pH mg/L NTU	
Monitoring Point 10 DW21a	23/03/2023	03/04/2023	pH Total suspended solids Turbidity	6.9 24 6.8	pH mg/L NTU	
Monitoring Point 11 EPL12	23/03/2023	03/04/2023	pH Total suspended solids Turbidity	7.5 70 29	pH mg/L NTU	
Monitoring Point 12 EPL11	23/03/2023	03/04/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	23/03/2023	03/04/2023	pH Total suspended solids Turbidity	6.8 21 7.5	pH mg/L NTU	
Monitoring Point 9 DW20b	15/03/2023	03/04/2023	pH Total suspended solids Turbidity	7.4 31 45	pH mg/L NTU	Monitoring within 24 hours of

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 10 DW21a	15/03/2023	03/04/2023	pH Total suspended solids Turbidity	6.8 27 37	pH mg/L NTU	50mm rainfall in 48 hour period
Monitoring Point 11 EPL12	15/03/2023	03/04/2023	pH Total suspended solids Turbidity	7.5 24 18	pH mg/L NTU	
Monitoring Point 12 EPL11	15/03/2023	03/04/2023	pH Total suspended solids Turbidity	6.5 5 23	pH mg/L NTU	
Monitoring Point 18 EPL13	15/03/2023	03/04/2023	pH Total suspended solids Turbidity	6.7 33 40	pH mg/L NTU	
Monitoring Point 9 DW20b	23/02/2023	03/04/2023	pH Total suspended solids Turbidity	7.7 13 23	pH mg/L NTU	
Monitoring Point 10 DW21a	23/02/2023	03/04/2023	pH Total suspended solids Turbidity	7.2 13 9.6	pH mg/L NTU	
Monitoring Point 11 EPL12	23/02/2023	03/04/2023	pH Total suspended solids Turbidity	7.5 5 1.6	pH mg/L NTU	
Monitoring Point 12 EPL11	23/02/2023	03/04/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	23/02/2023	03/04/2023	pH Total suspended solids Turbidity	7.2 10 9.4	pH mg/L NTU	
Monitoring Point 9 DW20b	09/02/2023	06/03/2023	pH Total suspended solids Turbidity	7.3 346 400	pH mg/L NTU	
Monitoring Point 10 DW21a	09/02/2023	06/03/2023	pH Total suspended solids Turbidity	7.2 79 90	pH mg/L NTU	
Monitoring Point 11 EPL12	09/02/2023	06/03/2023	pH Total suspended solids Turbidity	7 69 110	pH mg/L NTU	
Monitoring Point 12 EPL11	09/02/2023	06/03/2023	pH Total suspended solids Turbidity	6.6 36 70	pH mg/L NTU	
Monitoring Point 18 EPL13	09/02/2023	06/03/2023	pH Total suspended solids Turbidity	6.9 12 9.7	pH mg/L NTU	
Monitoring Point 9 DW20b	19/01/2023	06/03/2023	pH Total suspended solids Turbidity	7.2 7 4.4	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in January
Monitoring Point 10 DW21a	19/01/2023	06/03/2023	pH Total suspended solids Turbidity	7.0 22 4.8	pH mg/L NTU	
Monitoring Point 11 EPL12	19/01/2023	06/03/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 12 EPL11	19/01/2023	06/03/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	19/01/2023	06/03/2023	pH Total suspended solids Turbidity	6.4 37 17	pH mg/L NTU	
Monitoring Point 9 DW20b	15/12/2023	06/02/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in December
Monitoring Point 10 DW21a	15/12/2023	06/02/2023	pH Total suspended solids Turbidity	7.1 42 2.5	pH mg/L NTU	
Monitoring Point 11 EPL12	15/12/2023	06/02/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 12 EPL11	15/12/2023	06/02/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	15/12/2023	06/02/2023	pH Total suspended solids Turbidity	7.4 39 12	pH mg/L NTU	
Monitoring Point 9 DW20b	23/11/2023	06/02/2023	pH Total suspended solids Turbidity	7.7 13 50	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in November
Monitoring Point 10 DW21a	23/11/2023	06/02/2023	pH Total suspended solids Turbidity	7.5 17 20	pH mg/L NTU	
Monitoring Point 11 EPL12	23/11/2023	06/02/2023	pH Total suspended solids Turbidity	7.8 39 16	pH mg/L NTU	
Monitoring Point 12 EPL11	23/11/2023	06/02/2023	pH Total suspended solids Turbidity	ND	pH mg/L NTU	
Monitoring Point 18 EPL13	23/11/2023	06/02/2023	pH Total suspended solids Turbidity	7.5 73 50	pH mg/L NTU	
Monitoring Point 9 DW20b	25/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.4 17 21	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	25/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.2 18 24	pH mg/L NTU	
Monitoring Point 11 EPL12	25/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.0 22 27	pH mg/L NTU	
Monitoring Point 12 EPL11	25/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.7 45 60	pH mg/L NTU	
Monitoring Point 18 EPL13	25/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.1 31 26	pH mg/L NTU	

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 9 DW20b	22/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.3 50 27	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	22/10/2022	8/12/2022	pH Total suspended solids Turbidity	6.8 34 18	pH mg/L NTU	
Monitoring Point 11 EPL12	22/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.6 12 11	pH mg/L NTU	
Monitoring Point 12 EPL11	22/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.5 5 15	pH mg/L NTU	
Monitoring Point 18 EPL13	22/10/2022	8/12/2022	pH Total suspended solids Turbidity	6.9 54 19	pH mg/L NTU	
Monitoring Point 9 DW20b	10/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.7 36 40	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	10/10/2022	8/12/2022	pH Total suspended solids Turbidity	6.9 27 36	pH mg/L NTU	
Monitoring Point 11 EPL12	10/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.8 96 90	pH mg/L NTU	
Monitoring Point 12 EPL11	10/10/2022	8/12/2022	pH Total suspended solids Turbidity	6.6 19 17	pH mg/L NTU	
Monitoring Point 18 EPL13	10/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.3 17 29	pH mg/L NTU	
Monitoring Point 9 DW20b	7/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.8 44 24	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	7/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.2 54 65	pH mg/L NTU	
Monitoring Point 11 EPL12	7/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.6 17 17	pH mg/L NTU	
Monitoring Point 12 EPL11	7/10/2022	8/12/2022	pH Total suspended solids Turbidity	6.8 26 22	pH mg/L NTU	
Monitoring Point 18 EPL13	7/10/2022	8/12/2022	pH Total suspended solids Turbidity	7.5 33 40	pH mg/L NTU	
Monitoring Point 9 DW20b	30/09/2022	8/11/2022	pH Total suspended solids Turbidity	7.9 30 24	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	30/09/2022	8/11/2022	pH Total suspended solids Turbidity	7.2 28 38	pH mg/L NTU	

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 11 EPL12	30/09/2022	8/11/2022	pH Total suspended solids Turbidity	8.1 24 13	pH mg/L NTU	
Monitoring Point 12 EPL11	30/09/2022	8/11/2022	pH Total suspended solids Turbidity	6.8 10 11	pH mg/L NTU	
Monitoring Point 18 EPL13	30/09/2022	8/11/2022	pH Total suspended solids Turbidity	7.1 29 37	pH mg/L NTU	
Monitoring Point 9 DW20b	25/08/2022	5/10/2022	pH Total suspended solids Turbidity	7.7 21 55	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in August
Monitoring Point 10 DW21a	25/08/2022	5/10/2022	pH Total suspended solids Turbidity	7.9 24 23	pH mg/L NTU	
Monitoring Point 11 EPL12	25/08/2022	5/10/2022	pH Total suspended solids Turbidity	7.3 13 2.4	pH mg/L NTU	
Monitoring Point 12 EPL11	25/08/2022	5/10/2022	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	25/08/2022	5/10/2022	pH Total suspended solids Turbidity	7.3 105 75	pH mg/L NTU	
Monitoring Point 9 DW20b	6/07/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.2 20 50	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21a	6/07/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	6.9 5.5 22	pH mg/L NTU	
Monitoring Point 11 EPL12	6/07/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	6.9 22 28	pH mg/L NTU	
Monitoring Point 12 EPL11	6/07/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.4 4 5.9	pH mg/L NTU	
Monitoring Point 18 EPL13	6/07/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	6.8 5.5 19	pH mg/L NTU	
Monitoring Point 9 DW20b	23/06/2022	10/08/2022	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in June
Monitoring Point 10 DW21a	23/06/2022	10/08/2022	pH Total suspended solids Turbidity	7.1 16 29	pH mg/L NTU	
Monitoring Point 11 EPL12	23/06/2022	10/08/2022	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	23/06/2022	10/08/2022	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	



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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments	
Monitoring Point 18 EPL13	23/06/2022	10/08/2022	pH Total suspended solids Turbidity	6.9 104 95	pH mg/L NTU		
Monitoring Point 9 DW20b	23/05/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.5 23 30	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period	
Monitoring Point 10 DW21a	23/05/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.0 26 36	pH mg/L NTU		
Monitoring Point 11 EPL12	23/05/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	6.8 9 18	pH mg/L NTU		
Monitoring Point 12 EPL11	23/05/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.5 13 12	pH mg/L NTU		
Monitoring Point 18 EPL13	23/05/2022 (50mm rainfall)	28/07/2022	pH Total suspended solids Turbidity	7.0 33 34	pH mg/L NTU		
Monitoring Point 9 DW20b	12/05/2022 (50mm rainfall)	3/06/2022	pH Total suspended solids Turbidity	6.9 42 70	pH mg/L NTU		
Monitoring Point 10 DW21a	12/05/2022 (50mm rainfall)	3/06/2022	pH Total suspended solids Turbidity	7.8 2.5 21	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period	
Monitoring Point 11 EPL12	12/05/2022 (50mm rainfall)	3/06/2022	pH Total suspended solids Turbidity	7.6 26 50	pH mg/L NTU		
Monitoring Point 12 EPL11	12/05/2022 (50mm rainfall)	3/06/2022	pH Total suspended solids Turbidity	6.9 10 34	pH mg/L NTU		
Monitoring Point 18 EPL13	12/05/2022 (50mm rainfall)	3/06/2022	pH Total suspended solids Turbidity	7.7 24 32	pH mg/L NTU		
Monitoring Point 9 DW20b	8/04/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity	7.3 11 33	pH mg/L NTU		
Monitoring Point 10 DW21a	8/04/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	8/04/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity	7.3 19 45	pH mg/L NTU	Monitoring within 24 hours of 50mm rainfall in 48 hour period	
Monitoring Point 12 EPL11	8/04/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity	6.7 2 25	pH mg/L NTU		
Monitoring Point 18 EPL13	8/04/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity		pH mg/L NTU		
Monitoring Point 9 DW20b	31/03/2022 (50mm rainfall)	27/04/2022	pH Total suspended solids Turbidity	7.1 21 34.1	pH mg/L NTU		Monitoring within 24 hours of

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 10 DW21a	31/03/2022 (50mm rainfall)	27/04/2022	pH	6.9	pH	50mm rainfall in 48 hour period
			Total suspended solids	14	mg/L	
			Turbidity	16.8	NTU	
Monitoring Point 11 EPL12	31/03/2022 (50mm rainfall)	27/04/2022	pH	7.3	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
			Total suspended solids	92	mg/L	
Monitoring Point 12 EPL11	31/03/2022 (50mm rainfall)	27/04/2022	Total suspended solids	16	mg/L	
			Turbidity	18.9	NTU	
Monitoring Point 18 EPL13	31/03/2022 (50mm rainfall)	27/04/2022	pH	6.9	pH	
			Total suspended solids	18	mg/L	
Turbidity	20.1	NTU				
Monitoring Point 9 DW20b	29/03/2022 (50mm rainfall)	27/04/2022	pH	7.1	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	12	mg/L				
Turbidity	16.2	NTU				
Monitoring Point 10 DW21a	29/03/2022 (50mm rainfall)	27/04/2022	pH	6.8	pH	
Total suspended solids	16	mg/L				
Turbidity	18.9	NTU				
Monitoring Point 11 EPL12	29/03/2022 (50mm rainfall)	27/04/2022	pH	7.1	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	179	mg/L				
Turbidity	143	NTU				
Monitoring Point 12 EPL11	29/03/2022 (50mm rainfall)	27/04/2022	pH	7.2	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	207	mg/L				
Turbidity	141	NTU				
Monitoring Point 18 EPL13	29/03/2022 (50mm rainfall)	27/04/2022	pH	6.9	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	25	mg/L				
Turbidity	15.7	NTU				
Monitoring Point 9 DW20b	10/03/2022 (50mm rainfall)	31/03/2022	pH	7.2	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	18	mg/L				
Turbidity	27.3	NTU				
Monitoring Point 10 DW21b	10/03/2022 (50mm rainfall)	31/03/2022	pH	NA	pH	
Total suspended solids	NA	mg/L				
Turbidity	NA	NTU				
Monitoring Point 11 EPL12	10/03/2022 (50mm rainfall)	31/03/2022	pH	7.6	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	16	mg/L				
Turbidity	38.6	NTU				
Monitoring Point 12 EPL11	10/03/2022 (50mm rainfall)	31/03/2022	pH	6.8	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	6.0	mg/L				
Turbidity	7.63	NTU				
Monitoring Point 18 EPL13	10/03/2022 (50mm rainfall)	31/03/2022	pH	7.0	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	15	mg/L				
Turbidity	7.63	NTU				
Monitoring Point 9 DW20b	1/03/2022 (50mm rainfall)	31/03/2022	pH	7.3	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	10	mg/L				
Turbidity	16.6	NTU				
Monitoring Point 10 DW21b	1/03/2022 (50mm rainfall)	31/03/2022	pH	NA	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	NA	mg/L				
Turbidity	NA	NTU				
Monitoring Point 11 EPL12	1/03/2022 (50mm rainfall)	31/03/2022	pH	7.3	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Total suspended solids	25	mg/L				
Turbidity	16.9	NTU				

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Location	Monitoring Frequency	Results received	Pollutant	Measurement	Unit	Comments
Monitoring Point 12 EPL11	1/03/2022 (50mm rainfall)	31/03/2022	pH	6.8	pH	
			Total suspended solids	5	mg/L	
			Turbidity	6.26	NTU	
Monitoring Point 18 EPL13	1/03/2022 (50mm rainfall)	31/03/2022	pH	6.9	pH	
			Total suspended solids	18	mg/L	
			Turbidity	9.76	NTU	
Monitoring Point 9 DW20b	24/02/22 (50mm rainfall)	22/04/22	pH	7.5	pH	Monitoring within 24 hours of 50mm rainfall in 48 hour period
Monitoring Point 10 DW21b	24/02/22 (50mm rainfall)	22/04/22	Total suspended solids	41	mg/L	
			Turbidity	20	NTU	
Monitoring Point 11 EPL12	24/02/22 (50mm rainfall)	22/04/22	pH	6.9	pH	
			Total suspended solids	20	mg/L	
Monitoring Point 12 EPL11	24/02/22 (50mm rainfall)	22/04/22	Turbidity	31	NTU	
			Total suspended solids	7.4	mg/L	
Monitoring Point 18 EPL13	24/02/22 (50mm rainfall)	22/04/22	pH	6.6	pH	
			Total suspended solids	62	mg/L	
Monitoring Point 9 DW20b	20/01/22	31/03/22	pH	7.7	pH	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in January
Monitoring Point 10 DW21b	20/01/22	31/03/22	Total suspended solids	9.0	mg/L	
			Turbidity	4.45	NTU	
Monitoring Point 11 EPL12	20/01/22	31/03/22	pH	NA	pH	
			Total suspended solids	NA	mg/L	
Monitoring Point 12 EPL11	20/01/22	31/03/22	Turbidity	NA	NTU	
			Total suspended solids	8.1	pH	
Monitoring Point 18 EPL13	20/01/22	31/03/22	pH	7.0	pH	
			Total suspended solids	4.15	mg/L	
Monitoring Point 9 DW20b	10/12/21	8/2/22	pH	8.0	pH	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in December
Monitoring Point 10 DW21b	10/12/21	8/2/22	Total suspended solids	20	mg/L	
			Turbidity	15	NTU	
Monitoring Point 11 EPL12	10/12/21	8/2/22	pH	NA	pH	
			Total suspended solids	NA	mg/L	
Monitoring Point 12 EPL11	10/12/21	8/2/22	Turbidity	NA	NTU	
			Total suspended solids	ND	pH	
Monitoring Point 18 EPL13	10/12/21	8/2/22	pH	ND	pH	
			Total suspended solids	ND	mg/L	
Monitoring Point 9 DW20b	23/11/21	17/01/22	pH	8.5	pH	There was no instance where 50
			Total suspended solids	7.0	mg/L	

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			Turbidity	9.5	NTU	mm of rainfall was received at the premises within a 48 hour period in November
Monitoring Point 10 DW21b	23/11/21	17/01/22	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 11 EPL12	23/11/21	17/01/22	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 12 EPL11	23/11/21	17/01/22	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 18 EPL13	23/11/21	17/01/22	pH	7.4	pH	
			Total suspended solids	6	mg/L	
			Turbidity	6.2	NTU	
Monitoring Point 9 DW20b	26/10/21	2/12/21	pH	7.17	pH	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in October
			Total suspended solids	41	mg/L	
			Turbidity	17	NTU	
Monitoring Point 10 DW21b	26/10/21	2/12/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 11 EPL12	26/10/21	2/12/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 12 EPL11	26/10/21	2/12/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 18 EPL13	26/10/21	2/12/21	pH	7.3	pH	
			Total suspended solids	23	mg/L	
			Turbidity	24	NTU	
Monitoring Point 9 DW20b (monthly)	22/09/21	9/11/21	pH	7.60	pH	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in September
			Total suspended solids	38	mg/L	
			Turbidity	22	NTU	
Monitoring Point 10 DW21b (monthly)	22/09/21	9/11/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 11 EPL12 (monthly)	22/09/21	9/11/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 12 EPL11 (monthly)	22/09/21	9/11/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 18 EPL13 (monthly)	22/09/21	9/11/21	pH	6.5	pH	
			Total suspended solids	25	mg/L	
			Turbidity	28	NTU	
Monitoring Point 9 DW20b (monthly+ 50mm)	25/08/21	28/09/21	pH	7.9	pH	There was one instance where 50 mm of rainfall was received at the premises within a 48 hour period in August. Monitoring for the monthly and 50mm sampling was combined.
			Total suspended solids	30	mg/L	
			Turbidity	38	NTU	
Monitoring Point 10 DW21b (monthly+ 50mm)	25/08/21	28/09/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 11 EPL12 (monthly+ 50mm)	25/08/21	28/09/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 12 EPL11 (monthly+ 50mm)	25/08/21	28/09/21	pH	ND	pH	
			Total suspended solids	ND	mg/L	
			Turbidity	ND	NTU	
Monitoring Point 18 EPL13 (monthly +50mm)	25/08/21	28/09/21	pH	6.5	pH	
			Total suspended solids	25	mg/L	
			Turbidity	28	NTU	

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Monitoring Point 9 DW20b	30/07/21 (monthly)	16/09/21	pH Total suspended solids Turbidity	8.6 7 21	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in July
Monitoring Point 10 DW21b	30/07/21 (monthly)	16/09/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	30/07/21 (monthly)	16/09/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	30/07/21 (monthly)	16/09/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	30/07/21 (monthly)	16/09/21	pH Total suspended solids Turbidity	6.8 38 40	pH mg/L NTU	
Monitoring Point 9 DW20b	29/06/21 (monthly)	28/07/21	pH Total suspended solids Turbidity	8.6 7 21	pH mg/L NTU	There was no instance where 50 mm of rainfall was received at the premises within a 48 hour period in June
Monitoring Point 10 DW21b	29/06/21 (monthly)	28/07/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	29/06/21 (monthly)	28/07/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	29/06/21 (monthly)	28/07/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	29/06/21 (monthly)	28/07/21	pH Total suspended solids Turbidity	6.8 38 40	pH mg/L NTU	
Monitoring Point 9 DW20b	31/05/21 (monthly)	04/06/21	pH Total suspended solids Turbidity	7.7 15 13	pH mg/L NTU	There was one instance where 50 mm of rainfall was received at the premises within a 48 hour period in May.
Monitoring Point 10 DW21b	31/05/21 (monthly)	04/06/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	31/05/21 (monthly)	04/06/21	pH Total suspended solids Turbidity	7.8 11 4.1	pH mg/L NTU	
Monitoring Point 12 EPL11	31/05/21 (monthly)	04/06/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	31/05/21 (monthly)	04/06/21	pH Total suspended solids Turbidity	7.2 10 7.7	pH mg/L NTU	
Monitoring Point 9 DW20b (50mm)	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	7.1 8.0 14	pH mg/L NTU	
Monitoring Point 10 DW21b (50mm)	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	6.2 9.0 11	pH mg/L NTU	
Monitoring Point 11 EPL12 (50mm)	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	7.4 14 16	pH mg/L NTU	
Monitoring Point 12 EPL11 (50mm)	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11 (50mm)	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	

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Monitoring Point 18 EPL13	06/05/21 (50mm)	11/05/21	pH Total suspended solids Turbidity	7.1 22 20	pH mg/L NTU	There was no instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in April	
Monitoring Point 9 DW20b	28/04/21 (monthly)	25/05/21	pH Total suspended solids Turbidity	8.0 29 20	pH mg/L NTU		
Monitoring Point 10 DW21b	28/04/21 (monthly)	25/05/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	28/04/21 (monthly)	25/05/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	28/04/21 (monthly)	25/05/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 9 DW20b	20/03/21 (monthly + 50mm)	28/04/21	pH Total suspended solids Turbidity	7.7 3.0 7.8	pH mg/L NTU	There was two instances where 50 mm or more of rainfall was received at the premises within a 48 hour period in February (20/03/21 and 22/03/21). Monthly water quality and wet weather monitoring was combined and undertaken on 20/03/20.  Wet weather monitoring was delayed on 22/03/21 due to local flooding and site closure on 22/03/21 and 23/3/21. As per M2.4 note from EPL 11147, the EPA were informed that monitoring would be undertaken when floodwater receded and monitoring sites could be safely accessed. This was undertaken on 24/3/21	
Monitoring Point 10 DW21b	20/03/21 (monthly + 50mm)	28/04/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	20/03/21 (monthly + 50mm)	28/04/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	20/03/21 (monthly + 50mm)	28/04/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	20/03/21 (monthly + 50mm)	28/04/21	pH Total suspended solids Turbidity	7.1 5.0 13	pH mg/L NTU		
Monitoring Point 9 DW20b	24/03/21 (50mm)	07/04/21	pH Total suspended solids Turbidity	7.8 6.0 16	pH mg/L NTU		
Monitoring Point 10 DW21b	24/03/21 (50mm)	07/04/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	24/03/21 (50mm)	07/04/21	pH Total suspended solids Turbidity	8.0 13 19	pH mg/L NTU		
Monitoring Point 12 EPL11	24/03/21 (50mm)	07/04/21	pH Total suspended solids Turbidity	7.5 12 18	pH mg/L NTU		
Monitoring Point 18 EPL13	24/03/21 (50mm)	07/04/21	pH Total suspended solids Turbidity	6.8 3.0 12	pH mg/L NTU		
Monitoring Point 9 DW20b	17/02/21 (monthly)	24/3/21	pH Total suspended solids Turbidity	7.8 16 7.8	pH mg/L NTU		There was no instance where 50 mm or more of rainfall was received at the premises within a
Monitoring Point 10 DW21b	17/02/21 (monthly)	24/3/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		

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Monitoring Point 11 EPL12	17/02/21 (monthly)	24/3/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	48 hour period in February	
Monitoring Point 12 EPL11	17/02/21 (monthly)	24/3/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	17/02/21 (monthly)	24/3/21	pH Total suspended solids Turbidity	7.2 27 8.6	pH mg/L NTU		
Monitoring Point 9 DW20b	04/01/21 (50mm)	21/1/21	pH Total suspended solids Turbidity	7.5 47 12	pH mg/L NTU	There was one instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in January (4/1/21)	
Monitoring Point 10 DW21b	04/01/21 (50mm)	21/1/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	04/01/21 (50mm)	21/1/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	04/01/21 (50mm)	21/1/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	04/01/21 (50mm)	21/1/21	pH Total suspended solids Turbidity	7.1 28 20	pH mg/L NTU		
Monitoring Point 9 DW20b	28/01/21 (monthly)	23/2/21	pH Total suspended solids Turbidity	8.0 13 6.2	pH mg/L NTU		
Monitoring Point 10 DW21b	28/01/21 (monthly)	23/2/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	28/01/21 (monthly)	23/2/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	28/01/21 (monthly)	23/2/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	28/01/21 (monthly)	23/2/21	pH Total suspended solids Turbidity	7.0 76 34	pH mg/L NTU		
Monitoring Point 9 DW20b	17/12/20 (monthly)	27/01/21	pH Total suspended solids Turbidity	7.9 20 16	pH mg/L NTU		There was no instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in December
Monitoring Point 10 DW21b	17/12/20 (monthly)	27/01/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	17/12/20 (monthly)	27/01/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	17/12/20 (monthly)	27/01/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	17/12/20 (monthly)	27/01/21	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 9 DW20b	22/11/20 (monthly)	16/12/20	pH Total suspended solids Turbidity	8.1 7 8.0	pH mg/L NTU	There was no instance where 50 mm or more of	

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Monitoring Point 10 DW21b	22/11/20 (monthly)	16/12/20	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	rainfall was received at the premises within a 48 hour period in November
Monitoring Point 11 EPL12	22/11/20 (monthly)	16/12/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	22/11/20 (monthly)	16/12/20	pH Total suspended solids Turbidity	7.8 35 9.8	pH mg/L NTU	
Monitoring Point 18 EPL13	22/11/20 (monthly)	16/12/20	pH Total suspended solids Turbidity	7.3 20 7.3	pH mg/L NTU	
Monitoring Point 9 DW20b	22/10/20 (monthly)	20/11/20	pH Total suspended solids Turbidity	7.4 12 13	pH mg/L NTU	There was no instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in October
Monitoring Point 10 DW21b	22/10/20 (monthly)	20/11/20	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	22/09/20 (monthly)	20/11/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	22/10/20 (monthly)	20/11/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	22/10/20 (monthly)	20/11/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	21/09/20 (monthly)	23/10/20	pH Total suspended solids Turbidity	7.8 41 14	pH mg/L NTU	
Monitoring Point 10 DW21b	21/09/20 (monthly)	23/10/20	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	There was no instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in September
Monitoring Point 11 EPL12	21/09/20 (monthly)	23/10/20	pH Total suspended solids Turbidity	7.9 11 5.3	pH mg/L NTU	
Monitoring Point 12 EPL11	21/09/20 (monthly)	23/10/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	21/09/20 (monthly)	23/10/20	pH Total suspended solids Turbidity	7.6 18 7.8	pH mg/L NTU	
Monitoring Point 9 DW20b	11/08/20 (50mm)	13/08/20	pH Total suspended solids Turbidity	7.70 8 18.5	pH mg/L NTU	
Monitoring Point 10 DW21b	11/08/20 (50mm)	13/08/20	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	There was one instance where 50 mm or more of rainfall was received at the premises within a 48 hour period in August (09/10/20 and 10/08/20).
Monitoring Point 11 EPL12	11/08/20 (50mm)	13/08/20	pH Total suspended solids Turbidity	7.98 6 11.2	pH mg/L NTU	
Monitoring Point 12 EPL11	11/08/20 (50mm)	13/08/20	pH Total suspended solids Turbidity	7.82 <5 10.2	pH mg/L NTU	
Monitoring Point 18 EPL13	11/08/20 (50mm)	13/08/20	pH Total suspended solids Turbidity	7.54 <5 11.8	pH mg/L NTU	The site was unable to be accessed on the 9th and 10th of August 2020 due to safety concerns and



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Monitoring Point 9 DW20b	31/08/20 (monthly)	29/09/20	pH Total suspended solids Turbidity	7.8 25 15	pH mg/L NTU	flash flooding which caused site closure.  As per note 2 within condition M2.3 the site notified the EPA that sampling would be delayed. DSS undertook sampling as soon as it was safe to do so on 11th of August, 2020.
Monitoring Point 10 DW21b	31/08/20 (monthly)	29/09/20	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	31/08/20 (monthly)	29/09/20	pH Total suspended solids Turbidity	8.6 9 3	pH mg/L NTU	
Monitoring Point 12 EPL11	31/08/20 (monthly)	29/09/20	pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	31/08/20 (monthly)	29/09/20	pH Total suspended solids Turbidity	8.0 10 3.4	pH mg/L NTU	
Monitoring Point 9 DW20b	15 July 2020 (monthly)	18 August 2020	pH Total suspended solids Turbidity	7.8 12 10	pH mg/L NTU	There were two instances where 50 mm or more of rainfall was received at the premises within a 48 hour period in July (27/7/2020 and 28/7/2020).  The site was unable to be accessed on the 28th of July, 2020 due to safety concerns and flash flooding. As per note 2 within condition M2.3 the site notified the EPA and undertook sampling as soon as it was safe to do so on 29th of July, 2020
Monitoring Point 10 DW21b	15 July 2020 (monthly)	18 August 2020	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	15 July 2020 (monthly)	18 August 2020	pH Total suspended solids Turbidity	7.2 3 12	pH mg/L NTU	
Monitoring Point 12 EPL11	15 July 2020 (monthly)	18 August 2020	pH Total suspended solids Turbidity	6.4 52 100	pH mg/L NTU	
Monitoring Point 18 EPL13	15 July 2020 (monthly)	18 August 2020	pH Total suspended solids Turbidity	7.1 6.0 5.9	pH mg/L NTU	
Monitoring Point 9 DW20b	27 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	8.1 14 15	pH mg/L NTU	
Monitoring Point 10 DW21b	27 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	27 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	7.2 3 12	pH mg/L NTU	
Monitoring Point 12 EPL11	27 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	6.4 52 100	pH mg/L NTU	
Monitoring Point 18 EPL13	27 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	8.1 33 35	pH mg/L NTU	
Monitoring Point 9 DW20b	29 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	7.6 10 30	pH mg/L NTU	
Monitoring Point 10 DW21b	29 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	29 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	7.5 4 9	pH mg/L NTU	
Monitoring Point 12 EPL11	29 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	6.5 10 26	pH mg/L NTU	

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Monitoring Point 18 EPL13	29 July 2020 (50mm)	24 August 2020	pH Total suspended solids Turbidity	6.7 6 11	pH mg/L NTU	
Monitoring Point 9 DW20b	26 June 20 (monthly)		pH Total suspended solids Turbidity	8.0 8.0 6.8	pH mg/L NTU	There was no instance in June where 50 mm or more of rainfall was received at the premises within a 48 hour period.
Monitoring Point 10 DW21b	26 June 20 (monthly)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	26 June 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	26 June 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL 13	26 June 20 (monthly)		pH Total suspended solids Turbidity	7.0 149 4.1	pH mg/L NTU	
Monitoring Point 9 DW20b	22 May 20 (monthly)		pH Total suspended solids Turbidity	7.9 14 8.3	pH mg/L NTU	
Monitoring Point 10 DW21b	22 May 20 (monthly)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	22 May 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	22 May 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	22 May 20 (monthly)		pH Total suspended solids Turbidity	7.2 5.0 5.8	pH mg/L NTU	
Monitoring Point 9 DW20b	30 April 20 (monthly)		pH Total suspended solids Turbidity	7.5 12 5.4	pH mg/L NTU	There was no instance in April where 50 mm or more of rainfall was received at the premises within a 48 hour period.
Monitoring Point 10 DW21b	30 April 20 (monthly)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	30 April 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	30 April 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	30 April 20 (monthly)		pH Total suspended solids Turbidity	7.8 21 14	pH mg/L NTU	
Monitoring Point 9 DW20b	23 Mar 20 (monthly)		pH Total suspended solids Turbidity	7.6 4 4	pH mg/L NTU	
Monitoring Point 10 DW21b	23 Mar 20 (monthly)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU	
Monitoring Point 11 EPL12	23 Mar 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	

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Monitoring Point 12 EPL11	23 Mar 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	23 Mar 20 (monthly)		pH Total suspended solids Turbidity	6.8 44 12	pH mg/L NTU		
Monitoring Point 9 DW20b	11 Feb 20 (50mm)		pH Total suspended solids Turbidity	7.7 16 30.4	pH mg/L NTU	There was two instances where 50 mm or more of rainfall was received at the premises within a 48 hour period in February (8/2/20 and 10/2/20).	
Monitoring Point 10 DW21b	11 Feb 20 (50mm)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU		
Monitoring Point 11 EPL12	11 Feb 20 (50mm)		pH Total suspended solids Turbidity	7.2 5 3.3	pH mg/L NTU	The site was unable to be accessed on the 9 <sup>th</sup> and 10 <sup>th</sup> of February due to safety concerns and flash flooding.	
Monitoring Point 12 EPL11	11 Feb 20 (50mm)		pH Total suspended solids Turbidity	6.3 16 18.7	pH mg/L NTU		
Monitoring Point 18 EPL13	11 Feb 20 (50mm)		pH Total suspended solids Turbidity	6.7 5 4.3	pH mg/L NTU	As per note 2 within condition M2.3 the site notified the EPA and undertook sampling as soon as it was safe to do so on 11 <sup>th</sup> of February.	
Monitoring Point 9 DW20b	25 Feb 20 (monthly)		pH Total suspended solids Turbidity	7.7 22 5.1	pH mg/L NTU		
Monitoring Point 10 DW21b	25 Feb 20 (monthly)		pH Total suspended solids Turbidity	NA NA NA	pH mg/L NTU		
Monitoring Point 11 EPL12	25 Feb 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	25 Feb 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	25 Feb 20 (monthly)		pH Total suspended solids Turbidity	6.8 50 15	pH mg/L NTU		
Monitoring Point 9 DW20b	30 Jan 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		There was no instance in December where 50 mm or more of rainfall was received at the premises within a 48 hour period. No discharge at Monitoring Point 9 due to extended dry conditions.
Monitoring Point 10 DW21b	30 Jan 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 11 EPL12	30 Jan 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 12 EPL11	30 Jan 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 18 EPL13	30 Jan 20 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		
Monitoring Point 9 DW20b	11 Dec 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	There was no instance in December where 50 mm or more of rainfall was received at the	
Monitoring Point 10 DW21b	11 Dec 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU		

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Monitoring Point 11 EPL12	11 Dec 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	premises within a 48 hour period. No discharge at Monitoring Point 9 due to extended dry conditions.
Monitoring Point 12 EPL11	11 Dec 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	11 Dec 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	21 Nov 2019 (monthly)		pH Total suspended solids Turbidity	6.7 9 6.7	pH mg/L NTU	There was no instance where 20mm or more of rainfall was received at the premises within a 24 hour period in November.
Monitoring Point 10 DW21b	21 Nov 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	21 Nov 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	21 Nov 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	21 Nov 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	12 Oct 2019 (20mm)		pH Total suspended solids Turbidity	8.2 8 6.4	pH mg/L NTU	
Monitoring Point 10 DW21b	12 Oct 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	12 Oct 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	There was one instance where 20mm or more of rainfall was received at the premises within a 24 hour period in October. (12/10/19)
Monitoring Point 12 EPL11	12 Oct 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	12 Oct 2019 (20mm)		pH Total suspended solids Turbidity	6.9 5 21.9	pH mg/L NTU	
Monitoring Point 9 DW20b	24 Oct 2019 (monthly)		pH Total suspended solids Turbidity	7.9 6 2.5	pH mg/L NTU	
Monitoring Point 10 DW21b	24 Oct 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	24 Oct 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	24 Oct 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	24 Oct 2019 (monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	There was one instance where 20mm or more of
Monitoring Point 9 DW20b	18 Sept 2019 (Monthly)		pH Total suspended solids Turbidity	7.8 8 2.6	pH mg/L NTU	

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Monitoring Point 10 DW21b	18 Sept 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	rainfall was received at the premises within a 24 hour period in September. (19/9/19)
Monitoring Point 11 EPL12	18 Sept 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	18 Sept 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	18 Sept 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	19 Sept 2019 (20mm)		pH Total suspended solids Turbidity	8.3 5 4.7	pH mg/L NTU	
Monitoring Point 10 DW21b	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	19 Sept 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	19 Sept 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	19 Sept 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	7.8 8 2.6	pH mg/L NTU	
Monitoring Point 9 DW20b	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	7.8 8 2.6	pH mg/L NTU	
Monitoring Point 10 DW21b	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	22 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 9 DW20b	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	8.3 5 4.7	pH mg/L NTU	
Monitoring Point 10 DW21b	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	

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Monitoring Point 18 EPL13	30 Aug 2019 (20mm)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	There was no instance where 20mm or more of rainfall was received at the premises within a 24 hour period in July
Monitoring Point 9 DW20b	2 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	7.9 >5 1.6	pH mg/L NTU	
Monitoring Point 10 DW21b	2 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	2 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	2 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	2 Aug 2019 (Monthly)		pH Total suspended solids Turbidity	7.0 22 15.9	pH mg/L NTU	
Monitoring Point 9 DW20b	2 July 2019 (Monthly)		pH Total suspended solids Turbidity	8.0 6 3.4	pH mg/L NTU	There was one instance where 20mm or more of rainfall was received at the premises within a 24 hour period in June. (4/6/19)
Monitoring Point 10 DW21b	2 July 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 11 EPL12	2 July 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 12 EPL11	2 July 2019 (Monthly)		pH Total suspended solids Turbidity	ND ND ND	pH mg/L NTU	
Monitoring Point 18 EPL13	2 July 2019 (Monthly)		pH Total suspended solids Turbidity	7.5 10 9.9	pH mg/L NTU	
Further historical monitoring data relating to water quality can be found in the associated Annual Reviews for each year. Location of the Dunmore Lakes Sand Project Annual Reviews can be found at <a href="https://www.boral.com.au/locations/boral-dunmore-operations">https://www.boral.com.au/locations/boral-dunmore-operations</a>						

Dunmore Lakes Sand Project Monitoring Locations.

Water Quality Monitoring Locations

