



EPL 21054 Monitoring Data

July 2021

TABLE OF CONTENTS

1. INTRODUCTION	3
2. PURPOSE	3
3. BACKGROUND	3
MONITORING COMMENTS	3
4. CONCLUSION	4
5. APPENDICES	4

1. INTRODUCTION

Aspect Environmental Pty Ltd are engaged by the Licence Holder, QUBE RE SERVICES (NO. 2) Pty Ltd (QUBE) to collate monitoring results pertaining to EPL 21054 and display them on the SIMTA -Moorebank Intermodal Terminal Precinct website.

2. PURPOSE

Summarise the Discharge Point Monitoring Results for the reporting period 2020-2021.

3. BACKGROUND

The Moorebank Intermodal Terminal Precinct construction site is located on Moorebank Avenue, Moorebank in Sydney's south-west.

EPL 21054 was issued on 4 June 2018 for the Scheduled Activity of "Crushing, grinding or separating".

On 18 April 2019 the NSW EPA issued Variation No. 1 of EPL 21054 for the addition of Scheduled Activity "Extractive activities" and the provision of defined discharge monitoring points including parameters for monitoring discharges to water and land.

On 22 October 2020 the NSW EPA issued Variation No. 2 to remove the scheduled activity "Extractive activities". The Licence was further varied in consideration of s45 of the Act to include condition relating to dust control, emergency response, minor administrative changes and an amendment to special condition E1.

The current version of EPL 21054 was issued on 4 June 2021

Monitoring Comments

The site is well contained with most of the rainwater either being absorbed, evaporated or reused for dust control. Further, there are no processes on site that generate water as a by-product for discharge. Hence, discharge is not regular and does not always occur after rain. During the reporting period the site only discharged:

- six times at DP 3;
- six times at DP 5;

- four times at DP7;
- three times at DP4;
- twice at DP1; and
- no discharge at DPs 2 and 6.

On one occasion there were uncontrolled discharges at DPs 3 and 7. The uncontrolled discharges were a consequence of a 320 mm rainfall event in the period 19 and 20 March 2021. Subsequent laboratory results identified exceedances for total suspended solids and turbidity at both DPs. The initial report was made to the EPA on the 26 March 2021 (EPA REF-NO-111). EPA advised no further action.

No other exceedances occurred in the reporting period.

4. CONCLUSION

The compliance obligations of the Licensee in regard to Discharge Point monitoring have been satisfactorily executed.

5. APPENDICES

Appendix 1: Discharge Monitoring Data Summary Table (per EPA annual return reporting requirements).

Appendix 2: Bureau of Meteorology Rainfall.

Appendix 3: Discharge Monitoring Data Report.

APPENDIX 1 – DISCHARGE MONITORING DATA SUMMARY TABLE

(per EPA Annual Return Reporting Requirements)

EPL 21054, Monitoring Period 05/06/2020-04/06/2021, DPs 1,2, 3, 4, 5, 6 and 7.

Discharge and Monitoring Point 1

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	2	2	7.2	7.75	8.3
Total suspended solids	mg/L	2	2	6	13.5	21
Turbidity	ntu	2	2	3.3	11.15	19

Discharge and Monitoring Point 2

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	N/A	-	-	-
Total suspended solids (TSS)	mg/L	0	N/A	-	-	-
Turbidity	ntu	0	N/A	-	-	-

Discharge and Monitoring Point 3

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	6	6	6.7	7.5	8.3
TSS	mg/L	6	6	7.2	40	85
Turbidity	ntu	6	6	2.9	36.4	140
PFHxS	µg/L	6	6	<0.01	0.047	0.1
PFOS	µg/L	6	6	<0.01	0.058	0.12
PFOA	µg/L	6	6	<0.01	<0.01	0.02

Discharge and Monitoring Point 4						
Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	3	3	6.9	7.06	7.2
TSS	mg/L	3	3	6	12	16
Turbidity	ntu	3	3	5.3	14.8	26
PFHxS	µg/L	3	3	0.03	0.28	0.46
PFOS	µg/L	3	3	0.03	0.13	0.3
PFOA	µg/L	3	3	<0.01	<0.01	0.01
Discharge and Monitoring Point 5						
Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	6	6	6.8	7.26	7.3
TSS	mg/L	6	6	5.0	11.83	15
Turbidity	ntu	6	6	3.3	10.77	29
PFHxS	µg/L	6	6	0.02	0.041	0.09
PFOS	µg/L	6	6	0.03	0.068	0.19
PFOA	µg/L	6	6	0.01	0.01	0.01
Discharge and Monitoring Point 6						
Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	-	-	-	-
TSS	mg/L	0	-	-	-	-
Turbidity	ntu	0	-	-	-	-

Discharge and Monitoring Point 7

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	4	4	6.9	7.25	7.7
TSS	mg/L	4	4	5.6	7.37	64
Turbidity	ntu	4	4	4.5	11.17	77
PFHxS	µg/L	4	4	<0.01	0.08	0.13
PFOS	µg/L	4	4	<0.01	0.09	0.18
PFOA	µg/L	4	4	<0.01	0.01	0.01

APPENDIX 2 – BUREAU OF METEOROLOGY RAINFALL RECORDS

Holsworthy Aerodrome Rainfall (mm) for EPL Annual Return Period														
Day	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Total for period
1		0.2	0	0	1.6	30.6	0	0	0	0	0	0	0	
2		0	0	0	0.2	2.4	4.6	2.2	29	0	0	0	0	
3		0	0.2	0	0	0	0.4	5.4	0	0	0	0	0	
4		0.4	0	0	0	0	0	1	0	0	0	0		
5	0	0	0	4.2	0	3.8	0	9.8	0	0	0	18.4		
6	0	0	0	0.2	0	23.8	4.6	2.6	0	0	0.2	17.6		
7	0	0	0	0	0	0	0	0	2.4	0	5.4	0.6		
8	6	0	26.8	0	1	0	0	1.6	0	0	11.2	0		
9	0.6	0	0.2	1.2	0	0	0	0	0	0	0.2	0.4		
10	0.4	0	44.8	5	0	0	0	0	0	0.2	0.2	11.6		
11	5.4	5.4	1.4	0.8	0	0	0	0	0	0.2	0	13.4		
12	0.2	1	0	0	0	0	0	0	0	2.2	0	0		
13	3.4	6	0	0	0	1	0	0	16	6	0	0		
14	7.6	13	0	0	0	3.8	1.8	0	6.8	7.4	0	0		
15	0	1.4	4.4	0	0	0	4	0	0	4.6	0	0		
16	0	0	1.4	0	0	0	8.4	0	3.8	0	0	0		
17	0	0	0	0	0		1.8	0	10.4	4	0	0		
18	4.4	0	0	0	1.6	0	6.6	0	1.2	6.4	0	0		
19	0.2	0.2	0.2	0.2	2	0	0.8	0.4	6.2	41.2	0	0		
20	0	0	0	6.6	0	0	0.6	0.6	0	36.4	0	0		
21	11.2	0	0	8.8	0	0	0	0	0	96.4	0	0		
22	1	0	0	0.2	2.2	0	24.8	0	0	36.6	0	0.2		
23	0	0	0	0	0	2.6	0	0	0	49	0	0		
24	0	0	0	0	4	0.8	0	0	6.8	29.6	0	1		
25	0	0.2	0	0	18.6	0	0	0	2.8	0	0	0		
26	0	6.4	0	2.4	19	0	1	0	3.4	0	0	0		
27	0	70.6	0	0	8.6	0	0.8	0	0.2	0	0	0		
28	0	16.6	0	0	0.2	0	0	4.2	0	0	0	0		
29	0.2	0.4	0	0	11.8	0	12.2	7.4		0	0	0		
30	1	0	0	0	0	0	2.2	12.2		0	0	0		
31		0	0		11.2		0	1		0		0		
Total	41.6	121.8	79.4	29.6	82	68.8	74.6	48.4	89	320.2	17.2	63.2	0	1035.8

APPENDIX 3 – DISCHARGE MONITORING DATA REPORT

