



EPL 21054 Monitoring Data

4 June 2022 – 3 June 2023

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1. INTRODUCTION

Aspect Environmental Pty Ltd are engaged by the Licence Holder, LOGOS MLP DEVELOPMENT MANAGEMENT PTY LTD (LOGOS) to collate monitoring results pertaining to EPL 21054 and display them on the LOGOS - Moorebank Intermodal Precinct website.

2. PURPOSE

Summarise the Discharge Point Monitoring Results for the reporting period 4 June 2022 – 3 June 2023.

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.

On the 21 June 2021 the NSW EPA issued Variation No. 3 to remove discharge point 5 and to update the discharge point 7 pollution criteria to include PFOS, PFHxS and PFOA.

On 22 December 2021, the NSW EPA issued Variation No.4. In total nine variations were made to the licence, notably the variations included the addition of three discharge points and the removal of Total Suspended Solids as an approved pollutant.

On the 30 March 2022, the NSW EPA issued Variation No. 5, the transfer of the Licence holder from QUBE RE SERVICES (NO.2) to LOGOS. Subsequently, the current version of EPL 21054 was issued on 12 April 2022.

On the 7 October 2022, the NSW EPA issued Variation No.6, the current Licence. Variations included reduction in licence area, inclusion of a new discharge point and the removal of another.

Monitoring Comments

The site is well contained with most of the rainwater either being absorbed, evaporated, or reused for dust control. Further, the only process on site that generates water as a by-product for discharge is water treatment by the three on site water treatment plants. Treatment is in direct response to rainfall and PFAS being identified by sampling of sediment basin water. Discharge is not regular and does not always occur after rain. During the reporting period the site discharged:

- three occasions at DP1
- no discharge at DP2
- eight occasions at DP3 ((post rainfall), discharge at DP3 was also driven by water treatment plant discharge, hence the number of sample events reported exceeding the number required)
- eight occasions at DP4 ((no post rainfall), discharge at DP4 was driven by water treatment plant discharge only, hence the number of sample events reported exceeding the number required)
- two occasions at DP5 ((post rainfall), discharge at DP5 was also driven by water treatment plant discharge, hence the number of sample events reported exceeding the number required)
- seven occasions at DP7
- four occasions at DP8
- no discharge at DP9
- six occasions at DP10.

Criteria exceedances were identified within the data set.

- Turbidity exceedances at DP 3 - during sampling events it was identified that water entering the system upstream of construction site, had already impacted water turbidity, unfortunately an upstream sample was not collected.
- Turbidity exceedances at DP 7 - these samples were collected during rainfall events that exceeded a total of 24.4mm of rainfall over any consecutive five-day period (EPL condition L2.5)

- Turbidity exceedances at DP 10 - except for the incident reported on the 23 November 2022, these samples were collected during rainfall events that exceeded a total of 24.4mm of rainfall over any consecutive five-day period (EPL condition L2.5).

No other exceedances occurred in the reporting period.

4. CONCLUSION

The compliance obligations of the Licensee regarding 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 30/03/2022-03/06/2022, DPs 1,2, 3, 4, 5, 7, 8, 9 and 10.

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	3	3	7.1	7.6	7.9
Turbidity	ntu	3	3	10	12	13

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	-	-	-
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	9	16	5.9	6.54	8.4
Turbidity	ntu	9	16	<0.1	21.68	78
PFHxS	µg/L	9	16	<0.01	0.01	0.05
PFOS	µg/L	9	16	<0.01	0.01	0.11
PFOA	µg/L	9	16	<0.01	<0.01	<0.01

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
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pH	pH	8	14	7.35	7.7	8.05
Turbidity	ntu	8	14	<0.1	4.21	18.9
PFHxS	µg/L	8	14	<0.01	<0.01	0.03
PFOS	µg/L	8	14	<0.01	0.01	0.03
PFOA	µg/L	8	14	<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	12	25	6.76	7.01	8.4
Turbidity	ntu	12	25	<0.1	10.6	99
PFHxS	µg/L	12	25	<0.01	0.01	0.12
PFOS	µg/L	12	25	<0.01	0.03	0.13
PFOA	µg/L	12	25	<0.01	<0.01	<0.01

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	6	7	7.2	7.8	8.6
Turbidity	ntu	6	7	4.1	42	980
PFHxS	µg/L	6	7	<0.01	<0.01	0.02
PFOS	µg/L	6	7	<0.01	<0.01	0.01
PFOA	µg/L	6	7	<0.01	<0.01	<0.01

Discharge and Monitoring Point 8

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
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pH	pH	4	4	7.0	7.45	7.9
Turbidity	ntu	4	4	<0.1	36	79
PFHxS	µg/L	4	4	<0.01	<0.01	0.03
PFOS	µg/L	4	4	<0.01	<0.01	<0.01
PFOA	µg/L	4	4	<0.01	<0.01	<0.01

Discharge and Monitoring Point 9

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	-	-	-
Turbidity	ntu	0	N/A	-	-	-
PFHxS	µg/L	0	N/A	-	-	-
PFOS	µg/L	0	N/A	-	-	-
PFOA	µg/L	0	N/A	-	-	-

Discharge and Monitoring Point 10

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	7.5	7.68	8.0
Turbidity	ntu	6	6	5.4	126	250
PFHxS	µg/L	6	6	<0.01	0.02	0.03
PFOS	µg/L	6	6	<0.01	0.08	0.16
PFOA	µg/L	6	6	<0.01	<0.01	<0.01

APPENDIX 2 – BUREAU OF METEOROLOGY RAINFALL RECORDS

Holsworthy Aerodrome Rainfall (mm) for EPL Annual Return Period

Day	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Total for period
1		2.4	0.4	0.4	10.8	8.6	0	2.4	0	0	0	0	0	
2		9.4	0	0	2	0.2	0	0.6	0	0	7.6	0	0	
3		167.4	0	0.4	0	0	0	0	0	0	6	0	0	
4		56.4	0	9.4	0	0.8	0	2.6	0	1.6	0	0		
5	0	133.6	1.6	1	3.4	0	0	11.8	0	0	0.2	0		
6	1	1.6	0	0.2	36	0	9.6	1	0	0	0	0		
7	0	1.6	0	0	3.8	0	0	31.4	0.6	0	0	1.2		
8	0	0.2	0.6	0	4.8	0.2	0	0.2	0	0	8	8.2		
9	0	0	0	3.6	43.8	0	0.2	0	7	0	0.2	0		
10	0	14.8	4.6	0.8	0.8	0.2	0	0	7	0	0	0		
11	0	7.2	0.2	0.2	0	0	0	0	0.8	0	0	0		
12	0	1.6	0	0	0	0	0	0	0	0	0	0		
13	0	0	2.8	0	0	0	14.6	0	0	1.4	0.4	0		
14	0	0.2	0	0	0	33	0	0	0	0.4	12.8	5.6		
15	0.2	0	0	0	0	0	0	0	6.6	18.4	0.2	0.2		
16	0	0	0	17.2	0	0	0.6	0	0	0	0.2	0.2		
17	0	0	0	0	0	0.2	0	0	0	0	0	0.8		
18	0	0	0	0	0	0	1.4	0	0	0	0	0		
19	0	0	0	0	1.2	0	0.2	16.6	9.2	0	0	0		
20	8	8.2	0.2	0	0	0.6	0	0.6	0	0.2	.12.8	0		
21	0	11	0	0	1	0	2.4	0.2	0	0.2	0.2	0		
22	7.4	19.6	0	4.8	6.8	0	0	0.4	34.6	0	0	0		
23	0	4.6	0	5.4	1	0	2.4	2.8	0	0.8	0	0		
24	0	1.6	9.2	2.8	13.6	0	0.2	0	1	18.4	1.8	0		
25	0	0.2	0	6.4	18.6	0	0	2.8	0	0	1.2	0		



26	0.2	3.6	0	0	2.4	0	0	0	0	2.8	0	0		
27	0	0.2	0.6	1.2	0.2	0	0	0.6	0.2	7.8	0	0		
28	0	0	1	9.6	0	6.8	0	0	0	0.4	0.2	0		
29	0	0	0	1.4	0	0.2	0	0		4.6	1.2	0		
30	0	0	1.2	6	0	0	2.6	1		1.4	21.6	0		
31		0	0.2		0		1.4	25.6		0		0		
Total	16.8	445.4	22.6	70.8	150.2	50.8	35.6	100.6	67	58.4	61.8	16.2	0	1096.2

APPENDIX 3 – DISCHARGE MONITORING DATA REPORT

