

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY JANUARY 2018

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	JANUARY 2018

A1 Licence Holder

Licence Number 2122
Licence Holder AGL MACQUARIE
Trading Name (if applicable)
ABN 18 167 859 494

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) LIDDELL POWER STATION
Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

A3 Activities to which Licence Applies

Electricity Generating Works
Coal Works

A4 Other Activities (if applicable)

Helicopter-related facilities
Chemical storage
Operation of Emergency 1.5 MW diesel generator
Operation of Gas turbine
Sewage treatment
Waste storage

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Coal works	> 5,000,000.00	T handled
Generation of electrical power from coal	> 4,000.00	Gwh generated

Monthly Data Summary

Discharge & Monitoring Point 7

301204 East 6416350 North

Discharge to Air

In the flue gases of unit 1 boiler labelled as "Unit 1 Boiler 1-2 Chimney Stack" on plan no. LD 800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	93.8%	231.4	634.1	1372.0	1500 mg/m ³
JANUARY 2018	14/02/2018		parts per million				112.7	308.9	668.4	700 ppm
JANUARY 2018	14/02/2018	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	491.3	945.6	1158.5	
JANUARY 2018	14/02/2018		parts per million				171.9	330.9	405.3	600 ppm
JANUARY 2018	14/02/2018	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	4.1	8.7	15.9	20%

Comments:

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
Jul-17	5/09/2017	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Jul-17	5/09/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200
Jul-17	5/09/2017	Copper	milligrams per cubic metre	1	1	0.0029	
Jul-17	5/09/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.014	5
Jul-17	5/09/2017	Hydrogen chloride	milligrams per cubic metre	1	1	5.7	100
Jul-17	5/09/2017	Mercury	milligrams per cubic metre	1	1	0.00140	1.0
Jul-17	5/09/2017	Nitrogen oxides	milligrams per cubic metre	1	1	660	1500
Jul-17	5/09/2017	Solid particles	milligrams per cubic metre	1	1	24.0	100
Jul-17	5/09/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.100	100
Jul-17	5/09/2017	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Jul-17	5/09/2017	Total fluoride	milligrams per cubic metre	1	1	3.9	50
Jul-17	5/09/2017	Volatile organic compounds	milligrams per cubic metre	1	1	0.012	

Comments:

Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 1 tested 25 July 2017.

Monthly Data Summary

Discharge & Monitoring Point 8

301204 East 6416350 North

In the flue gases of unit 2 boiler labelled as "Unit 2 Boiler 1-2 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	-				1500 mg/m ³
JANUARY 2018	14/02/2018		parts per million							700 ppm
JANUARY 2018	14/02/2018	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	-				
JANUARY 2018	14/02/2018		parts per million							600 ppm
JANUARY 2018	14/02/2018	Opacity - Undifferentiated particles	Percent	Continuous	One hour	-				20%
Comments:		Unit was out of service for the entire monitoring period								

Annual monitoring of discharges to air

Air emission monitoring, Boiler 2 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
-	-	Cadmium	milligrams per cubic metre	1	-	-	1.0
-	-	Chlorine	milligrams per cubic metre	1	-	-	200
-	-	Copper	milligrams per cubic metre	1	-	-	
-	-	Hazardous substances (Metals)	milligrams per cubic metre	1	-	-	5
-	-	Hydrogen chloride	milligrams per cubic metre	1	-	-	100
-	-	Mercury	milligrams per cubic metre	1	-	-	1.0
-	-	Nitrogen oxides	milligrams per cubic metre	1	-	-	1500
-	-	Solid particles	milligrams per cubic metre	1	-	-	100
-	-	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	-	-	100
-	-	Sulphur dioxide	milligrams per cubic metre	1	-	-	
-	-	Total fluoride	milligrams per cubic metre	1	-	-	50
-	-	Volatile organic compounds	milligrams per cubic metre	1	-	-	
Comments:		Unit was out of service for the entire monitoring period					

Monthly Data Summary

Discharge & Monitoring Point 9

301204 East 6416350 North

In the flue gases of unit 3 boiler labelled as "Unit 3 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	260.6	475.7	659.3	1500 mg/m ³
JANUARY 2018	14/02/2018		parts per million				127.0	231.8	321.2	700 ppm
JANUARY 2018	14/02/2018	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	755.3	902.8	1048.6	
JANUARY 2018	14/02/2018		parts per million				264.3	315.9	366.9	600 ppm
JANUARY 2018	14/02/2018	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	0.7	3.4	15.6	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
Oct-17	1/12/2017	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Oct-17	1/12/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200
Oct-17	1/12/2017	Copper	milligrams per cubic metre	1	1	0.0037	
Oct-17	1/12/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.02	5
Oct-17	1/12/2017	Hydrogen chloride	milligrams per cubic metre	1	1	20.0	100
Oct-17	1/12/2017	Mercury	milligrams per cubic metre	1	1	0.00051	1.0
Oct-17	1/12/2017	Nitrogen oxides	milligrams per cubic metre	1	1	770	1500
Oct-17	1/12/2017	Solid particles	milligrams per cubic metre	1	1	42.0	100
Oct-17	1/12/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.700	100
Oct-17	1/12/2017	Sulphur dioxide	milligrams per cubic metre	1	1	1300	
Oct-17	1/12/2017	Total fluoride	milligrams per cubic metre	1	1	9.8	50
Oct-17	1/12/2017	Volatile organic compounds	milligrams per cubic metre	1	1	<0.02	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 3 tested 31 October 2017.							

Monthly Data Summary

Discharge & Monitoring Point 10

301204 East 6416350 North

In the flue gases of unit 4 boiler labelled as "Unit 4 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	396.9	582.5	730.0	1500 mg/m ³
JANUARY 2018	14/02/2018		parts per million				193.4	283.8	355.6	700 ppm
JANUARY 2018	14/02/2018	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	741.8	897.2	1143.7	
JANUARY 2018	14/02/2018		parts per million				259.5	313.9	400.2	600 ppm
JANUARY 2018	14/02/2018	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.7	8.0	12.9	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³			
Dec-17	15/01/2018	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0			
Dec-17	15/01/2018	Chlorine	milligrams per cubic metre	1	1	0.0	200			
Dec-17	15/01/2018	Copper	milligrams per cubic metre	1	1	0.0058				
Dec-17	15/01/2018	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.015	5			
Dec-17	15/01/2018	Hydrogen chloride	milligrams per cubic metre	1	1	6.6	100			
Dec-17	15/01/2018	Mercury	milligrams per cubic metre	1	1	0.00190	1.0			
Dec-17	15/01/2018	Nitrogen oxides	milligrams per cubic metre	1	1	845	1500			
Dec-17	15/01/2018	Solid particles	milligrams per cubic metre	1	1	24.0	100			
Dec-17	15/01/2018	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	5.500	100			
Dec-17	15/01/2018	Sulphur dioxide	milligrams per cubic metre	1	1	1000				
Dec-17	15/01/2018	Total fluoride	milligrams per cubic metre	1	1	3.2	50			
Dec-17	15/01/2018	Volatile organic compounds	milligrams per cubic metre	1	1	<0.07				
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 4 tested 12 December 2017.										

Monthly Data Summary

Discharge & Monitoring Point 12

Discharge to waters <301204 East 6416350 North> Update

Liddell Outfall Canal

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Ammonia	milligrams per litre	Fortnightly	3	<0.01	0.041666667	0.07	-
JANUARY 2018	14/02/2018	Antimony	milligrams per litre	Fortnightly	3	0.006	0.007666667	0.009	
JANUARY 2018	14/02/2018	Arsenic	milligrams per litre	Fortnightly	3	0.004	0.005333333	0.007	-
JANUARY 2018	14/02/2018	Barium	milligrams per litre	Fortnightly	3	0.096	0.107	0.125	
JANUARY 2018	14/02/2018	Beryllium	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Boron	milligrams per litre	Fortnightly	3	1.08	1.193333333	1.38	
JANUARY 2018	14/02/2018	Cadmium	milligrams per litre	Fortnightly	3	<0.0001	0.00005	<0.0001	-
JANUARY 2018	14/02/2018	Chlorine	milligrams per litre	Fortnightly	3	0.04	0.04	0.04	
JANUARY 2018	14/02/2018	Chromium	milligrams per litre	Fortnightly	3	<0.01	0.005	<0.01	-
JANUARY 2018	14/02/2018	Chromium (total)	milligrams per litre	Fortnightly	3	<0.001	0.001	0.002	
JANUARY 2018	14/02/2018	Cobalt	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Conductivity	uS/cm	Fortnightly	3	2610.0	2643.3	2660.0	
JANUARY 2018	14/02/2018	Copper	milligrams per litre	Fortnightly	3	0.003	0.004	0.005	-
JANUARY 2018	14/02/2018	Flouride	milligrams per litre	Fortnightly	3	1.08	1.286666667	1.51	
JANUARY 2018	14/02/2018	Lead	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Manganese	milligrams per litre	Fortnightly	3	0.015	0.017333333	0.019	
JANUARY 2018	14/02/2018	Mercury	milligrams per litre	Fortnightly	3	<0.0001	0.00005	<0.0001	-
JANUARY 2018	14/02/2018	Methylene Blue Active Substance	milligrams per litre	Fortnightly	3	<0.1	0.05	<0.1	
JANUARY 2018	14/02/2018	Molybdenum	milligrams per litre	Fortnightly	3	0.103	0.117333333	0.138	-
JANUARY 2018	14/02/2018	Nickel	milligrams per litre	Fortnightly	3	0.004	0.004666667	0.006	
JANUARY 2018	14/02/2018	Nitrogen (total)	milligrams per litre	Fortnightly	3	0.3	0.366666667	0.4	-
JANUARY 2018	14/02/2018	Oil and Grease	milligrams per litre	Weekly	5	<5	2.5	<5	
JANUARY 2018	14/02/2018	pH	pH Units	Daily	31	8.2	8.4	8.6	-
JANUARY 2018	14/02/2018	Phosphorus	milligrams per litre	Fortnightly	3	0.01	0.016666667	0.02	

Monthly Data Summary

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Selenium	milligrams per litre	Fortnightly	3	<0.01	0.005	<0.01	-
JANUARY 2018	14/02/2018	Sulfur	milligrams per litre	Fortnightly	3	576	611.6666667	648	
JANUARY 2018	14/02/2018	Temperature	milligrams per litre	Fortnightly	3	31.2	31.6	31.8	
JANUARY 2018	14/02/2018	Tin	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Total Dissolved Solids	milligrams per litre	Fortnightly	3	1660	1760	1830	
JANUARY 2018	14/02/2018	Total Organic Carbon	milligrams per litre	Fortnightly	3	6	6.333333333	7	-
JANUARY 2018	14/02/2018	TSS	milligrams per litre	Fortnightly	3	1	3	5	
JANUARY 2018	14/02/2018	Vanadium	milligrams per litre	Fortnightly	3	0.01	0.013333333	0.02	-
JANUARY 2018	14/02/2018	Zinc	milligrams per litre	Fortnightly	3	<0.005	0.0025	<0.005	
Comments									

Monthly Data Summary

Comments									
Discharge & Monitoring Point 13									
Discharge to waters <301204 East 6416350 North> Update									
Liddell Oil and Grit Trap									
Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Ammonia	milligrams per litre	Fortnightly	3	<0.01	0.291666667	0.85	-
JANUARY 2018	14/02/2018	Antimony	milligrams per litre	Fortnightly	3	0.006	0.007666667	0.009	
JANUARY 2018	14/02/2018	Arsenic	milligrams per litre	Fortnightly	3	0.005	0.006	0.007	-
JANUARY 2018	14/02/2018	Barium	milligrams per litre	Fortnightly	3	0.096	0.109333333	0.135	
JANUARY 2018	14/02/2018	Beryllium	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Boron	milligrams per litre	Fortnightly	3	1.09	1.33	1.58	
JANUARY 2018	14/02/2018	Cadmium	milligrams per litre	Fortnightly	3	<0.0001	0.00005	<0.0001	-
JANUARY 2018	14/02/2018	Chlorine	milligrams per litre	Fortnightly	3	0.03	0.04	0.05	
JANUARY 2018	14/02/2018	Chromium	milligrams per litre	Fortnightly	3	<0.01	0.005	<0.01	-
JANUARY 2018	14/02/2018	Chromium (total)	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	
JANUARY 2018	14/02/2018	Cobalt	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Conductivity	uS/cm	Fortnightly	3	2500.0	2516.7	2530.0	
JANUARY 2018	14/02/2018	Copper	milligrams per litre	Fortnightly	3	0.004	0.005666667	0.007	-
JANUARY 2018	14/02/2018	Flouride	milligrams per litre	Fortnightly	3	1.1	1.24	1.52	
JANUARY 2018	14/02/2018	Lead	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Manganese	milligrams per litre	Fortnightly	3	0.016	0.021333333	0.026	
JANUARY 2018	14/02/2018	Mercury	milligrams per litre	Fortnightly	3	<0.0001	0.00005	<0.0001	-
JANUARY 2018	14/02/2018	Methylene Blue Active Substance	milligrams per litre	Fortnightly	3	<0.1	0.05	<0.1	
JANUARY 2018	14/02/2018	Molybdenum	milligrams per litre	Fortnightly	3	0.101	0.118	0.152	-
JANUARY 2018	14/02/2018	Nickel	milligrams per litre	Fortnightly	3	0.005	0.006666667	0.008	
JANUARY 2018	14/02/2018	Nitrogen (total)	milligrams per litre	Fortnightly	3	0.3	0.533333333	0.8	-
JANUARY 2018	14/02/2018	Oil and Grease	milligrams per litre	Weekly	5	<5	2.5	<5	
JANUARY 2018	14/02/2018	pH	pH Units	Daily	31	8.1	8.412903226	8.6	-

Monthly Data Summary

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Phosphorus	milligrams per litre	Fortnightly	3	0.01	0.016666667	0.02	
JANUARY 2018	14/02/2018	Selenium	milligrams per litre	Fortnightly	3	<0.01	0.005	<0.01	-
JANUARY 2018	14/02/2018	Sulfur	milligrams per litre	Fortnightly	3	525	598	615	
JANUARY 2018	14/02/2018	Temperature	milligrams per litre	Fortnightly	3	26.7	27	27.3	
JANUARY 2018	14/02/2018	Tin	milligrams per litre	Fortnightly	3	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Total Dissolved Solids	milligrams per litre	Fortnightly	3	1247	1575.666667	1740	
JANUARY 2018	14/02/2018	Total Organic Carbon	milligrams per litre	Fortnightly	3	6	6	6	-
JANUARY 2018	14/02/2018	TSS	milligrams per litre	Fortnightly	3	2	3.666666667	5	
JANUARY 2018	14/02/2018	Vanadium	milligrams per litre	Fortnightly	3	0.01	0.013333333	0.02	-
JANUARY 2018	14/02/2018	Zinc	milligrams per litre	Fortnightly	3	<0.005	0.004333333	0.008	
Comments									

Discharge & Monitoring Point 14

Discharge to waters <301204 East 6416350 North> Update

The skimmer dam overflow spillway, located at the left abutment of the skimmer dam.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	Arsenic	milligrams per litre	Weekly	4	0.042	0.04775	0.052	-
JANUARY 2018	14/02/2018	Boron	milligrams per litre	Weekly	4	1.96	2.025	2.08	
JANUARY 2018	14/02/2018	Cadmium	milligrams per litre	Weekly	4	<0.0001	0.0000625	0.0001	-
JANUARY 2018	14/02/2018	Chromium	milligrams per litre	Weekly	4	<0.01	0.005	<0.01	-
JANUARY 2018	14/02/2018	Chromium (total)	milligrams per litre	Weekly	4	<0.001	0.001375	0.002	
JANUARY 2018	14/02/2018	Conductivity	uS/cm	Weekly	4	2930.0	2965.0	3060.0	
JANUARY 2018	14/02/2018	Copper	milligrams per litre	Weekly	4	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Flouride	milligrams per litre	Weekly	4	2.3	2.45	2.6	
JANUARY 2018	14/02/2018	Lead	milligrams per litre	Weekly	4	<0.001	0.0005	<0.001	-
JANUARY 2018	14/02/2018	Mercury	milligrams per litre	Weekly	4	<0.0001	0.00005	<0.0001	-
JANUARY 2018	14/02/2018	Oil and Grease	milligrams per litre	Weekly	4	<5	2.5	<5	

Monthly Data Summary

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2018	14/02/2018	pH	pH Units	Weekly	4	8.2	8.2	8.3	-
JANUARY 2018	14/02/2018	Selenium	milligrams per litre	Weekly	4	0.03	0.03	4	-
JANUARY 2018	14/02/2018	TSS	milligrams per litre	Weekly	4	3	3.75	5	
JANUARY 2018	14/02/2018	Zinc	milligrams per litre	Weekly	4	<0.005	0.0025	<0.005	
Comments									

Monthly Data Summary

Details of Non-Compliance with Licence

Licence condition number not complied with

L1.1

Summary of particulars of the non-compliance **(NO MORE THAN 50 WORDS)**

AGL Macquarie staff identified a leak at a gibault joint in the 3/4 D1 dust line which allowed dust slurry to discharge through a drain and culvert to gully below the ash dam wall

If required, further details on particulars of non-compliance

-

Date(s) when the non-compliance occurred, if applicable

24-Jan-18

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

A gibault joint on the 3/4 1 pipeline leaked into a drain which fed into a gully resulting in ash slurry being deposited in the gully

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

Ash line was isolated, sediment fencing was installed downstream to prevent further loss as a result of wet weather. Dust slurry was removed from the gully manually

Action taken or that will be taken to prevent a recurrence of the non-compliance

Repair/replace Gibault joint. Drain and culvert have been filled in

Monthly Data Summary

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Monthly Data Summary

Monthly Data Summary

Monthly Data Summary

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Monthly Data Summary

Monthly Data Summary