Water Monitoring Report March 2023

SSD 9697 – Ravensworth Ash Pipeline Upgrade

AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

Table of Contents

1. Introduction....2
2. Results....2
2.1 Water Monitoring....2
2.2 Rainfall....3
2.3 Rainfall Results....4
3. Discussion....5

AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

1. Introduction

This report outlines the results of water monitoring data completed for the Ravensworth Ash Line construction project associated with SSD 9697. The monitoring data presented is for 1-31 March 2023; hereby referred to as 'the reporting period'.

Monitoring is completed in accordance with the requirements of Section 7 of the Bayswater Power Station Ravensworth Ash Line – Water Management Plan – Construction (the WMP). Results are assessed against the criteria set in Section 8 of the WMP, with actions taken as per Section 9 of the WMP.

2. Results

2.1 Water Monitoring

Results for the reporting period are summarised in **Table 1**. Any results outside of criteria are highlighted.

Table 1 – Water sampling results for the reporting period

Sample Site	pH		Electrical Conductivity µS/cm		Turbidity (NTU)	
	Results	Criteria	Results	Criteria	Results	Criteria
Monthly Sampling						
Chilcotts Creek Upstream	6.47	6.5-8.5	7040	125-5438	25	6-50
Chilcotts Creek Downstream	7.14	6.5-8.5	6890	125-5438	27	6-50
Pikes Creek Upstream	Dry	6.5-8.5	Dry	125-5438	Dry	6-50
Pikes Creek Downstream	Dry	6.5-8.5	Dry	125-5438	Dry	6-50
Bayswater Creek Upstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50
Bayswater Creek Downstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50

**Pool: No flow (stagnant water)*

AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

2.2 Rainfall

Daily rainfall from the main site meteorological station is presented in **Table 2**. In March 2023 there was one recorded rainfall event of 20mm or more requiring rainfall event sampling to be undertaken.

Table 2 – Daily rainfall during the reporting period

Date	Rainfall (mm)
01/3/2023	-
02/3/2023	-
03/3/2023	-
04/3/2023	-
05/3/2023	-
06/3/2023	-
07/3/2023	-
08/3/2023	-
09/3/2023	-
10/3/2023	-
11/3/2023	-
12/3/2023	4
13/3/2023	10.2
14/3/2023	0.4
15/3/2023	-
16/3/2023	-
17/3/2023	-
18/3/2023	-
19/3/2023	-
20/3/2023	-

AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

Date	Rainfall (mm)
21/3/2023	21.2
22/3/2023	0.2
23/3/2023	-
24/3/2023	-
25/3/2023	6.8
26/3/2023	-
27/3/2023	18
28/3/2023	2
29/3/2023	15.8
30/3/2023	0.2
31/3/2023	
Total	**78.8 (mm)**

2.3 Rainfall Results

Results for the reporting period are summarised in **Table 3**. Any results outside of criteria are highlighted.

Table 3: Rainfall water sampling results for the reporting period

Sample Site	pH		Electrical Conductivity µS/cm		Turbidity (NTU)	
	Results	Criteria	Results	Criteria	Results	Criteria
Monthly Sampling						
Chilcotts Creek Upstream	6.64	6.5-8.5	5610	125-5438	5.9	6-50
Chilcotts Creek Downstream	6.69	6.5-8.5	5620	125-5438	45	6-50
Pikes Creek Upstream	Dry	6.5-8.5	Dry	125-5438	Dry	6-50
Pikes Creek Downstream	Dry	6.5-8.5	Dry	125-5438	Dry	6-50

AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

Sample Site	pH		Electrical Conductivity µS/cm		Turbidity (NTU)	
	Results	Criteria	Results	Criteria	Results	Criteria
Bayswater Creek Upstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50
Bayswater Creek Downstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50

3. Discussion

There was very small flowing equivalent to no flow found at the upstream and downstream of Chilcotts Creek. No flow suggests there was standing water which has likely adversely impacted on the Chilcotts Creek electrical conductivity monitoring results. Upstream and Downstream of Pikes Creek and Bayswater Creek were recorded dry during the reporting period. These results suggest that work associated with construction of the Ravensworth Ash pipeline did not contribute to any upstream and downstream levels.

Rainfall samples were collected during the reporting period. Most of the sites are within the trigger limit except for Electrical conductivity and Turbidity at Chilcotts Creek upstream and Electrical conductivity at Chilcotts creek downstream. Very little flow was observed at the time of sampling which suggests there was standing water which would adversely impact on monitoring results. These results suggest that works associated with construction of the Ravensworth Ash pipeline did not contribute to any upstream and upstream levels.