

Snowy 2.0 External Agency Incident Notification Form

Elevated nitrogen concentration at EPL monitoring point EPL55 Confluence - SHL-ENV-INC-001	
Date of Incident	21/06/2024
Time of Incident	15:08
Site	Lobs Hole - GF01 gully
Coordinates (lat long)	35°46'48"S 148°23'4"E
Proponent contact	Jordan Chenery +61 409 991 478

Incident Classification		
Regulator	Description	Notification Details
☒ NSW EPA	<u>EPL 21266 - Concentration limits L2.1</u> <i>"For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table."</i>	<u>Condition R2.2</u> EPA Hotline # REF-NO-31023
☒ NSW NPWS	<u>Conditions of Approval - CSSI 9687</u> Sch. 3 Cond. 29 Sch. 3 Cond. 30(m)	<u>CoA: Sch. 4, Cond. 7</u> <i>"Within 7 days of becoming aware of any non-compliance with the conditions of this approval, the Proponent must notify the Department via the Major Projects portal of the non-compliance."</i>
☒ NSW DPHI	<u>Conditions of Approval - CSSI 9687</u> Sch. 3 Cond. 29 Sch. 3 Cond. 30(m)	<u>CoA: Sch. 4, Cond. 7</u> <i>"Within 7 days of becoming aware of any non-compliance with the conditions of this approval, the Proponent must notify the Department via the Major Projects portal of the non-compliance."</i>
☐ Australian DCCEEW	For information.	For information.

Summary of Incident

Incident Details:

- Due to known exceedances of nitrogen species at EPL55 surface water monitoring point, additional sampling locations were added to the TARP 1 sampling regime to monitor the migration of nutrients downstream. The locations are reported as downstream EPL 55 (EPL55B), and the intersection of the stream and Yarrangobilly River (EPL55 Confluence).
- The first three rounds of sampling conducted on the 15th, 24th, and 30th of May 2024 identified non-detectable concentrations of Total Nitrogen at < 0.01 mg/L (below laboratory reporting limits) in EPL55 Confluence.
- On 31/5/2024, Lobs Hole received 33.2 mm of rainfall. Subsequent post rainfall sampling at EPL 55 Confluence on 1/06/2024, returned results of 0.52mg/L Nitrite and Nitrate, and Total Nitrogen of 1.0 mg/L. This exceeded the Total Nitrogen limit of the EPL criteria.
- On 11/06/2024, Lobs Hole received 18.4mm of rainfall and sampling at EPL55 Confluence was performed on the day of the rainfall event. Results showed the Nitrite and Nitrate had risen to 2.53 mg/L and the concentration of Total Nitrogen rose to 3.1mg/L. This exceeded the total nitrogen limit of the EPL criteria.
- Water quality results and exceedances were identified by the Principal Contractor on 21/06/2024.

Environmental Factors:

Impact Type: Surface water

Mechanism of Incident: Sediment capture, storage or discharge

Volume of Agent Released: N/A

Volume of Material: N/A

Area of Impact: Yarrangobilly River

Duration of Incident: 6 hours

Duration of Impact: 6 hours

Immediate Actions taken

- Cease water cart operation/irrigation in the immediate location, in and around GF01 gully.
- Continue TARP1, weekly comprehensive sampling.
- Liaise with CPESC to inform erosion and sediment control designs for the GF01 gully.
- Continue to investigate options to mitigate downstream migration of nitrates from GF01.

Photograph(s) / Map(s)

Figure 1: Map showing EPL55 Confluence location.

